



September 26, 2016

Mr. Tom Coar
Environmental Group Manager
Pennsylvania Department of Environmental Protection
Environmental Cleanup & Brownfields Program
2 Public Square
Wilkes-Barre, PA 18701-1915

HAND DELIVERED

**RE: Final Site Characterization Report:
Lewis Brothers Garage Property;
PA Route 347
Scott Township, Lackawanna County, Pennsylvania
PADEP Facility ID#35-10233
USTIF Claim #2007-0053(F)
Pennsylvania Tectonics Project Number: 27058**

Dear Mr. Coar,

Enclosed, please find one (1) bound copy of the Final Site Characterization Report associated with the above referenced Lewis Brothers Garage Property.

I trust this information meets your needs. Please do not hesitate to contact me with any questions or comments concerning the contents of this report or the project in general.

Sincerely,

A handwritten signature in black ink, appearing to read "Martin Gilgallon", written over a horizontal line.

Martin Gilgallon, P.G.
Project Director
Pennsylvania Tectonics, Incorporated



MG/mg – 27058_Final SCR

Enclosure

cc: The Estate of Mrs. Ruth Lewis / Lewis Brothers Garage
Mr. Jim Ferro / ICF International
Pennsylvania Tectonics Project File #27058

environmental consultants



September 26, 2016

Mr. Jim Ferro
Claim Investigator
ICF International
4000 Vine Street
Middletown, PA 17057

**RE: Final Site Characterization Report:
Lewis Brothers Garage Property;
PA Route 347
Scott Township, Lackawanna County, Pennsylvania
PADEP Facility ID#35-10233
USTIF Claim #2007-0053(F)
Pennsylvania Tectonics Project Number: 27058**

Dear Mr. Ferro,

Enclosed, please find one (1) digital copy on CD-R of the Final Site Characterization Report associated with the above referenced Lewis Brothers Garage Property. One (1) bound copy of this report has been submitted to PADEP, as required.

I trust this information meets your needs. Please do not hesitate to contact me with any questions or comments concerning the contents of this report or the project in general.

Sincerely,

A handwritten signature in black ink, appearing to read "Martin Gilgallon".

Martin Gilgallon, P.G.
Project Director
Pennsylvania Tectonics, Incorporated



MG/mg – 27058_FSCR

Enclosure

cc: The Estate of Mrs. Ruth Lewis / Lewis Brothers Garage
Ms. Sherry Carlo, P.G. / PADEP
Pennsylvania Tectonics Project File #27058

environmental consultants



September 26, 2016

Mr. Sean Phillips
Executor
The Estate of Ruth Lewis
121 Aspen Lane
Nicholson, PA 18446

**RE: Final Site Characterization Report:
Lewis Brothers Garage Property;
PA Route 347
Scott Township, Lackawanna County, Pennsylvania
PADEP Facility ID#35-10233
USTIF Claim #2007-0053(F)
Pennsylvania Tectonics Project Number: 27058**

Dear Mr. Phillips,

Enclosed, please find one (1) digital copy on CD-R of the Final Site Characterization Report associated with the above referenced Lewis Brothers Garage Property. Copies have been forwarded to PADEP and USTIF, as required.

I trust this information meets your needs. Please do not hesitate to contact me with any questions or comments concerning the contents of this report or the project in general.

Sincerely,

A handwritten signature in black ink, appearing to read "Martin Gilgallon", written over a horizontal line.

Martin Gilgallon, P.G.
Project Director
Pennsylvania Tectonics, Incorporated



MG/mg – 27058_FSCR

Enclosure

cc: Pennsylvania Tectonics Project File #27058

environmental consultants



Final Site Characterization Report

**Lewis Brothers Garage Property
Scott Township, Lackawanna County, Pennsylvania
PADEP Facility ID#35-10233
USTIF Claim #2007-0053(F)**

September 26, 2016

Prepared For:

The Estate of Mrs. Ruth Lewis

Corrective Action Process Report / Plan Cover Sheet Chapter 245 Storage Tank Act

- Site Characterization Report – Section 245.301(b)
- Site Characterization Report – Site-Specific Standard
- Site Characterization Report – Statewide Health or Background Standard
- Remedial Action Plan – Statewide Health or Background Standard
- Remedial Action Plan – Site Specific Standard
- Remedial Action Progress Report
- Remedial Action Completion Report – Statewide Health or Background Standard
- Remedial Action Completion Report – Site-Specific Standard

environmental consultants

FINAL SITE CHARACTERIZATION REPORT
COMBINED STATEWIDE HEALTH & SITE-SPECIFIC STANDARDS
LEWIS BROTHERS GARAGE PROPERTY
SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA
PADEP FACILITY ID #35-10233
USTIF CLAIM 2007-0053(F)

PREPARED FOR
THE ESTATE OF MRS. RUTH LEWIS

PREPARED BY
PENNSYLVANIA TECTONICS, INCORPORATED
723 MAIN STREET
ARCHBALD, PENNSYLVANIA 18403
(570) 487-1959

PENNSYLVANIA TECTONICS PROJECT NUMBER: 27058

SEPTEMBER 26, 2016

Submitted By:



Martin P. Gilgallon, P.G.
Project Director
Pennsylvania Tectonics, Incorporated



FINAL SITE CHARACTERIZATION REPORT
 LEWIS BROTHERS GARAGE PROPERTY
 SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

TABLE OF CONTENTS

List of Figures

List of Tables

<u>Section / Description</u>	<u>Page</u>
1. BACKGROUND	1
1.1 General	1
1.2 Purpose of the Investigation	1
1.3 Site Location and Legal Description.....	1
1.4 Site Description.....	2
1.5 Review of Site History.....	2
1.6 UST Closure Activities.....	5
1.7 Site Physiography	6
1.8 Surrounding Land Use.....	9
2. SITE CHARACTERIZATION ACTIVITIES.....	1
2.1 General	1
2.2 Offsite Access Issues	1
2.3 Project Parameters	2
2.4 Site Soils Investigation	3
2.5 Groundwater Investigation	7
2.6 Surface Water Sampling Activities.....	29
2.7 Private Well Sampling.....	29
3. ANALYTICAL RESULTS – SITE CHARACTERIZATION ACTIVITIES.....	1
3.1 General.....	1
3.2 Determination of Cleanup Standards.....	1
3.3 Comparison of Soil Data to Statewide Health Standard MSCs.....	1
3.4 Comparison of Groundwater Data to Applicable Statewide Health Standard MSCs.....	5
3.5 Discussion of Surface Water Analytical Data.....	5
3.6 Overview of Field Data	5
3.7 Comparison of Drinking Water Data to Applicable Statewide Health Standard MSCs.....	8

4.	VAPOR INTRUSION EVALUATION.....	1
4.1	General	1
4.2	Soil Analytical Data Evaluation.....	1
4.3	Groundwater Analytical Data Evaluation.....	2
4.4	Soil-Vapor Sampling Activities	2
4.5	Findings.....	8
5.	SENSITIVE RECEPTOR SURVEY	1
5.1	General	1
5.2	Ecological Screening	1
5.3	PNDI Search	1
5.4	Well Inventory / Water Usage Survey	2
5.5	Surface Water Receptors	3
5.6	Evaluation of Exposure Pathways.....	3
6.	SELECTED REMEDIATION STANDARDS.....	1
7.	INTERIM REMEDIAL ACTIONS.....	1
7.1	General	1
7.2	Removal of Product From Storage Tank Systems.....	1
7.3	Separate Phase Liquid Recovery – Monitoring Wells	1
7.4	Point of Entry Treatment (POET) Systems	1
7.5	Source Reduction Activities – Soil Excavation & Disposal	5
7.6	New Production Well Installation Activities – Jarrow Well	9
7.7	High Vapor Extraction Demonstration.....	11
8.	SITE CONCEPTUAL MODEL / FINDINGS.....	1
9.	FATE & TRANSPORT ANALYSIS.....	1
9.1	General	1
9.2	Preliminary Review of Soil-Related Contamination	1
9.3	Review of Groundwater-Related Contamination	2
9.4	Summary of the Fate & Transport Model Results.....	4
10.	REVIEW OF REMEDIAL OPTIONS.....	1
10.1	General	1
10.2	Monitored Natural Attenuation.....	1
10.3	Soil Excavation.....	2
10.4	Soil Vapor Extraction	3
10.5	Air Sparging Coupled with Soil Vapor Extraction.....	4
10.6	Groundwater Pump and Treat	4
10.7	Chemical Oxidation.....	5
10.8	Oxygen Injection.....	6
10.9	Soil Vapor Extraction Pilot Study	6

10.10	Summary	7
11.	SUMMARY	1
12.	REFERENCES.....	1
13.	SIGNATURES.....	2

FINAL SITE CHARACTERIZATION REPORT
LEWIS BROTHERS GARAGE PROPERTY
SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

TABLE OF CONTENTS (Continued)

List of Appendices

APPENDIX A	Site Maps and Figures
APPENDIX B	Photograph Log
APPENDIX C	Pennsylvania Tectonics Representative Resumes
APPENDIX D	Lackawanna County Property Deeds
APPENDIX E	Lackawanna County Property Cards
APPENDIX F	Copies of Select Aerial Photographs
APPENDIX G	Copies of Historical Topographic Maps
APPENDIX H	Amended UST Registration Form
APPENDIX I	UST Closure Report Forms – July 2010
APPENDIX J	EDR Governmental Database Report
APPENDIX K	Test Boring Logs
APPENDIX L	Fracture Trace Analysis Report – April 10, 2009
APPENDIX M	Monitoring Well Logs
APPENDIX N	Monitoring Well Construction Details
APPENDIX O	Monitoring Well Development / Well Purging Records
APPENDIX P	Drill Cuttings Disposal Documentation – July / August 2011
APPENDIX Q	Drummed Waste Disposal Documentation
APPENDIX R	Laboratory Analytical Data Sheets – Aqueous Waste Treatment Effluent Samples
APPENDIX S	Base Survey Map & Points Files
APPENDIX T	Historical Groundwater Elevation Summary Tables
APPENDIX U	Groundwater Contour Maps

FINAL SITE CHARACTERIZATION REPORT
LEWIS BROTHERS GARAGE PROPERTY
SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

TABLE OF CONTENTS (Continued)

List of Appendices

APPENDIX V	Aquifer Testing Documentation
	V-1: Slug Test Data Sheets
	V-2: Aquifer Testing Background Data
	V-3: MW-11D Step Test Documentation – October 5, 2010
	V-4: MW-11D Step Test Documentation – May 18, 2016
	V-5: MW-2s Step Test Documentation – May 19, 2016
	V-6: MW-11D Constant Rate Pumping Test Documentation – October 11, 2010
	V-7: MW-2s Constant Rate Pumping Test Documentation – May 20, 2016
	V-8: MW-11D Constant Rate Pumping Test Documentation – May 25, 2016
APPENDIX W	Soil Analytical Data Sheets, Summary Tables and Cross Sections
APPENDIX X	Groundwater Analytical Data Sheets and Summary Tables
APPENDIX Y	Surface Water Analytical Data Sheets and Summary Tables
APPENDIX Z	Groundwater Isopleth Maps
APPENDIX AA	Field Data Summary Tables
APPENDIX BB	Drinking Water Analytical Data Sheets and Summary Tables
APPENDIX CC	Comparison of Soil Analytical Data vs. USEPA-PA Default Values
APPENDIX DD	Comparison of Groundwater Analytical Data vs. USEPA-PA Default Values
APPENDIX EE	Test Boring Logs & Construction Details – Vapor Point Installation
APPENDIX FF	Weather Data – Soil-Vapor Sampling Events
APPENDIX GG	Soil Vapor Analytical Summary Tables and Analytical Data Sheets
APPENDIX HH	Johnson & Ettinger Model Input and Output Data – Jarrow Residence

FINAL SITE CHARACTERIZATION REPORT
LEWIS BROTHERS GARAGE PROPERTY
SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

TABLE OF CONTENTS (Continued)

List of Appendices

APPENDIX II	PNDI Project Environmental Review Receipt
APPENDIX JJ	Summary of Water Usage Information
APPENDIX KK	Drum Disposal Documentation – Current USTs Product Removal Activities
APPENDIX LL	Summary of UST Gauging Data
APPENDIX MM	Summary of Product Thickness and Recovery Data & T&D Documentation
APPENDIX NN	POET System Sampling - Laboratory Analytical Data Sheets
APPENDIX OO	Soil Disposal Documentation
APPENDIX PP	Systematic Random Sampling Worksheets and Sampling Grid
APPENDIX QQ	Soil Attainment Sampling Analytical Data Summary and Laboratory Data Sheets
APPENDIX RR	Well Log and Well Completion Report – Jarrow Replacement Well
APPENDIX SS	Laboratory Analytical Data Sheets – Jarrow Replacement Well
APPENDIX TT	ARM Borehole Geophysics Report – Old Jarrow Well
APPENDIX UU	Well Abandonment Form – Old Jarrow Well
APPENDIX VV	Effluent Disposal Documentation – High Vapor Extraction Demonstration
APPENDIX WW	Field Logs – High Vapor Extraction Demonstration
APPENDIX XX	Temporal Trend Analyses
APPENDIX YY	Matrix Fate & Transport Report
APPENDIX ZZ	SVE Pilot Study Documentation
	ZZ-1: Test Boring Logs – SVE Pilot Test Points
	ZZ-2: Well Construction Details – SVE Pilot Test Points
	ZZ-3: SVE Pilot Test Study Report

FINAL SITE CHARACTERIZATION REPORT
LEWIS BROTHERS GARAGE PROPERTY
SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

List of Figures

<u>Number / Description</u>	<u>Page</u>
1 Site Location Map	Appendix A
2 Lackawanna County Tax Map.....	Appendix A
3A Site Sketch	Appendix A
3B Enlarged Site Sketch	Appendix A
4 Bedrock Geology Map	Appendix A
5 Surficial Geology Map	Appendix A
6 Soil Conservation Survey Map	Appendix A
7 Local Watershed Map	Appendix A
8 National Wetlands Inventory Map.....	Appendix A
9 Area Map	Appendix A
10A Test Boring Location Map	Appendix A
10B Cross Section Identification Map.....	Appendix A
10C Soil Contamination Map – Vadose Zone	Appendix A
10D Soil Contamination Map – Smear Zone	Appendix A
11 Monitoring Well Location Map.....	Appendix A
12 Surface Water Sample Location Map.....	Appendix A
13 Private Production Well Location Map.....	Appendix A
14 Vapor Point Location Map	Appendix A
15 Surface Water Features Map.....	Appendix A
16 Tier 1 Wells Location Map	Appendix A

FINAL SITE CHARACTERIZATION REPORT
LEWIS BROTHERS GARAGE PROPERTY
SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

List of Figures

<u>Number</u> / <u>Description</u>	<u>Page</u>
17 Tier 2 Wells Location Map.....	Appendix A
18 Tier 3 Wells Location Map.....	Appendix A
19 Soil Excavation Layout Map – April 2008 & September 2010 Excavation Activities.....	Appendix A
20 Soil Vapor Extraction Pilot Test Well Location Map.....	Appendix A

FINAL SITE CHARACTERIZATION REPORT
 LEWIS BROTHERS GARAGE PROPERTY
 SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

List of Tables

<u>Number / Description</u>	<u>Page</u>
1-1 Summary of Parcel Information.....	1-2
1-2 Summary of Documented UST Systems.....	1-6
1-3 Summary of Geocoded Sites – Governmental Database Review	1-11
2-1 Soil Sample Log – February-March 2008 Field Activities.....	2-4
2-2 Soil Sample Log – June 2008 Field Activities.....	2-5
2-3 Soil Sample Log – November 2015 Field Activities	2-7
2-4 Well Construction Information – Shallow Groundwater Monitoring Wells	2-8
2-5 Well Construction Information – Bedrock Groundwater Monitoring Wells – Open Rock	2-9
2-6 Well Construction Information – Bedrock Groundwater Monitoring Wells – Screened.....	2-10
2-7 Summary of Groundwater Sampling Events.....	2-11
2-8 Summary of Drummed Waste T&D Events	2-12
2-9 Summary of Aqueous Waste Treatment Events	2-13
2-10 Summary of Slug Testing Events	2-15
2-11 Hydraulic Conductivity (K) Data – Shallow Aquifer.....	2-17
2-12 Hydraulic Conductivity (K) Data – Bedrock Aquifer.....	2-17
2-13 Summary of Step Pumping Test Events.....	2-19
2-14 Summary of Step Test Data (MW-11D) – October 5, 2010	2-20
2-15 Summary of Step Test Data (MW-11D) – May 18 2016.....	2-22
2-16 Summary of Step Test Data (MW-2s) – May 19, 2016.....	2-23
2-17 Summary of Constant Rate Pumping Test Events.....	2-24
2-18 Summary of Total Drawdown – Constant Rate Pumping Test (MW-11D) – 2010.....	2-25

FINAL SITE CHARACTERIZATION REPORT
 LEWIS BROTHERS GARAGE PROPERTY
 SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

List of Tables (Continued)

<u>Number / Description</u>	<u>Page</u>
2-19 Summary of Aquifer Parameters – Constant Rate Pumping Test (MW-11D) – 2010.....	2-25
2-20 Summary of Total Drawdown – Constant Rate Pumping Test (MW-2s) – 2016.....	2-26
2-21 Summary of Aquifer Parameters – Constant Rate Pumping Test (MW-2s) – 2016.....	2-27
2-22 Summary of Total Drawdown – Constant Rate Pumping Test (MW-11D) – 2016.....	2-28
2-23 Summary of Aquifer Parameters – Constant Rate Pumping Test (MW-11D) – 2016.....	2-29
2-24 Summary of Surface Water Sampling Events.....	2-29
2-25 Summary of Private Well Sampling Activities.....	2-30
3-1 Summary of Exceedances – Vadose Zone.....	3-2
3-2 Summary of Exceedances – Smear Zone.....	3-3
6-1 Summary of Applicable MSCs.....	6-1
7-1 Summary of Private Wells Exhibiting Positive Compound Concentrations.....	7-2
7-2 Summary of Historical POET System Sampling Events.....	7-3
7-3 Annual Poet Sampling Schedule.....	7-4
7-4 Summary of Exceedances – September 2010 Soil Attainment Sampling.....	7-8
7-5 New Production Well Installation – Jarrow Residence.....	7-10
9-1 Summary of Groundwater Temporal Trend Analyses.....	9-3
9-2 Summary of Fate & Transport Model Results – Overburden Aquifer.....	9-5
10-1 Well Construction Information – Soil Vapor Extraction Pilot Study Wells.....	10-7
B-1 Photograph Log.....	Appendix B
T-1 Historical Groundwater Elevation Summary Table.....	Appendix T
W-1 Soil Analytical Summary Tables.....	Appendix W

FINAL SITE CHARACTERIZATION REPORT
LEWIS BROTHERS GARAGE PROPERTY
SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

List of Tables (Continued)

<u>Number / Description</u>	<u>Page</u>
X-1 Groundwater Analytical Summary Tables	Appendix X
Y-1 Surface Water Analytical Summary Tables	Appendix Y
AA-1 Field Data Summary Tables.....	Appendix AA
BB-1 Drinking Water Analytical Summary Tables.....	Appendix BB
CC-1 Comparison of Soil Data to PA Default Values (Soil-Gas).....	Appendix CC
DD-1 Comparison of Groundwater Data to PA Default Values (Soil-Gas)	Appendix DD
GG-1 Soil Vapor Analytical Summary Tables.....	Appendix GG
JJ-1 Summary of Water Usage Information	Appendix JJ
LL-1 UST Gauging Data Summary Table	Appendix LL
MM-1 Product Thickness and Recovery Data Summary Table – MW-2s and MW-3s.....	Appendix MM
QQ-1 Attainment Sampling Analytical Summary Table	Appendix QQ

FINAL SITE CHARACTERIZATION REPORT

LEWIS BROTHERS GARAGE PROPERTY

SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA

List of Acronyms / Element Symbols

Act 2	<i>“Land Recycling and Environmental Remediation Standards Act”</i>
IAQ	Indoor Air Quality
MDL	Method Detection Limit
MSC	Medium Specific Concentrations
MTBE	Methyl tert-Butyl Ether
MW	Monitoring Well
NOC	Notice of Contamination
NOV	Notice of Violation
NWI	National Wetlands Inventory
PADEP	Pennsylvania Department of Environmental Protection
PID	Photoionization Detector
PPB / PPM	Parts Per Billion / Parts Per Million
PMW	Proposed Monitoring Well
POET	Point-of-Entry Treatment
RAP	Remedial Action Plan
REC	Recognized Environmental Condition
SCR	Site Characterization Report
SHS	Statewide Health Standard
SOP	Standard Operating Procedure
SVOC	Semi-Volatile Organic Compound
TB	Test Boring
TGM	Technical Guidance Manual
TMB	Trimethylbenzene
TMW	Temporary Monitoring Well
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank

1. BACKGROUND

1.1 General

Pennsylvania Tectonics, Incorporated (Pennsylvania Tectonics), on behalf of The Estate of Mrs. Ruth Lewis, is pleased to present this combined Statewide Health Standard and Site-Specific Standard Final Site Characterization Report (SCR) in association with the Lewis Brothers Garage Property (subject property). The subject property is located along PA Route 347 in Scott Township, Lackawanna County, Pennsylvania. The activities summarized herein were completed in accordance with the guidelines and standards pursuant to the Pennsylvania Department of Environmental Protection's (PADEP's) "*Land Recycling and Environmental Remediation Standards Act*" (Act 2) of July, 1995, as amended; the Corrective Action Process under the Pennsylvania Storage Tank and Spill Prevention Act (25 PA Code Chapter 245.301 – 245.313, Corrective Action Process); and the PADEP's Groundwater Monitoring Guidance Manual dated December 1, 2001. A Site Location Map (Figure 1) depicting the location of the subject property is included in Appendix A. A Photograph Log compiled as part of this investigation is included as Appendix B. Pennsylvania Tectonics Representative Resumes are included as Appendix C to this report.

1.2 Purpose of the Investigation

In December 2006, Ms. Amy Jarrow, a nearby resident located at 899 Justus Boulevard, reported odors in the drinking water at her residence. The Jarrow residence is located approximately 200 feet southeast of the subject property. The odors were reported to the PADEP. The PADEP collected one (1) drinking water sample from the Jarrow well and reported an MTBE concentration of 40.0 ug/l. The detection of this contamination initiated an investigation at the subject property to determine the source. Note, the Jarrow property was purchased on May 13, 2013 by Ashley Jones and M.J. Saikowski, as referenced in later parts of this report.

Site characterization activities were conducted at the subject property by Pennsylvania Tectonics between February 2008 and June 2016. These activities included the installation of forty (40) test borings; the collection / analysis of fifty-seven (57) soil samples; the completion of a fracture trace analysis; the installation of seventeen (17) shallow groundwater monitoring wells; the installation of ten (10) bedrock groundwater monitoring wells; the completion of seventeen (17) groundwater sampling events; the collection / analysis of eight (8) rounds of surface water samples; the collection / analysis drinking water samples from of seventy-four (74) surrounding properties; the completion of aquifer testing (slug tests and pumping test); the installation of six (6) soil vapor monitoring points; and, the collection / analysis of five (5) rounds of soil vapor samples. In addition to the site characterization activities, Pennsylvania Tectonics completed interim remedial actions including the excavation and disposal of 595.88 tons of petroleum impacted soil at the subject property; collected twelve (12) attainment samples from the impacted soil excavation; completed the closure, via removal, of one (1) 1,000-gallon used motor oil UST at the subject property; completed the installation of Point of Entry Treatment Systems (POETs) at twenty-seven (27) neighboring properties; completed the collection / analysis of nineteen (19) rounds of POET samples from the treatment systems; completed the replacement of the private groundwater production well located at the Jarrow Property; and, completed a High Vapor Extraction Demonstration. A Soil Vapor Extraction Pilot Test was also conducted. The purpose of this report is to summarize the site characterization activities and the interim remedial activities conducted at the subject property to date.

1.3 Site Location and Legal Description

The Lewis Brothers Garage Property is located along the northeastern side of PA Route 347 in Scott Township, Lackawanna County, Pennsylvania. Mrs. Ruth Lewis (2/3rd interest) and Mr. Marshal Lewis (1/3rd interest) are the current owners of the subject property. Refer to Appendix A for a Lackawanna County Tax Map (Figure 2)

depicting the subject property. Refer to Appendix D for a copy of the current property deeds. The subject property consists of one (1) parcel of land, as summarized in Table 1-1:

**Table 1-1
Lewis Brothers Garage Property
Summary of Parcel Information**

Parcel / Map Number	Lot Size	Instrument #
092.04-040-017	0.5 +/- Acres	#200717434
		#200717435
		#201412066

1.4 Site Description

A review of the site history indicates the subject property was the location of a gasoline filling station and automobile service garage since the early 1900s. The subject property was also the location of a Dodge dealership for an unknown period of time. These historical activities were conducted by the Lewis family. Most recently, the subject property was utilized as a gasoline filling station, automotive body shop and for storage. This filling station ceased retail operations in December 2003. Subsequently, the filling station was utilized in a limited capacity for the dispensing of gasoline to family members. Pennsylvania Tectonics pumped the residual gasoline from the storage tanks in May 2007, thereby ending the use of the site as a filling station. The automotive body shop ceased operations in August 2008. At the time of this report, a portion of the facility was utilized by Lohr Equipment as an equipment rental and welding shop. A private individual utilized the remainder of the facility for the storage and maintenance of snowmobiles. Utilities that serve the subject property include electricity provided by PPL and sewer service provided by the Scott Township Sewer & Water Authority. Potable water is provided to the subject property via a private well located on the adjacent "Lewis Homestead" property (Lackawanna County Map #092.04-040-016). The average elevation of the subject property is approximately 1,510 feet above mean sea level (M.S.L.), as indicated on the U.S.G.S. (7.5 Minute Series) Scranton, Pennsylvania Quadrangle. Refer to Appendix A for a Site Sketch (Figure 3A) and an Enlarged Site Sketch (Figure 3B).

1.5 Review of Site History

1.5.1 Title Review Information

A review of title-related information was completed by Pennsylvania Tectonics at the Lackawanna County Gateway Center in Scranton, Pennsylvania. The results of the title review process are used to determine whether any previous land usage may have resulted in any potential environmental concern. The subject property is associated with Lackawanna Tax Map Number 092.04-040-017. The property ownership history is summarized as follows:

- The deeded owner of the subject property is Mrs. Ruth Lewis, deceased;
- Mrs. Ruth Lewis acquired 1/3rd interest in the subject property from Marshall T. Lewis, Jr. on June 17, 2014 (giving Mrs. Ruth Lewis full interest in the property);
- John P. Lewis and Ruth Lewis, his wife, acquired 1/3rd interest in the subject property from Lisa Tizzoni (executrix of the Lloyd G. Lewis Estate) on June 25, 2007 (giving John and Ruth Lewis 2/3rd interest);

- Lloyd G. Lewis, Marshall Lewis and John P. Lewis acquired the subject property from Henry R. Lewis, Mary Jane Lewis, Clarence A. Lewis, Dorothy Lewis, Elmwood M. Lewis and Edward A. Lewis on July 8, 1946;
- Henry R. Lewis acquired the subject property from Jerome Britton and Frances Britton on March 18, 1907.

No current environmental liens or activity and use limitations were observed to exist on the subject property, based on Pennsylvania Tectonics' review of the available title-related information.

1.5.2 Lackawanna County Property Cards

As part of the review of site history, Pennsylvania Tectonics personnel review property cards maintained by the Lackawanna County Tax Assessor's office. This office is located in the Lackawanna County Gateway Center in Scranton, Pennsylvania. The property cards are obtained utilizing the map, block and lot numbers of the property. Copies of the property cards are included in Appendix E of this report. The following summary is provided:

- The subject property is associated with Lackawanna County Tax Map # 092.04-040-017 and contains 0.5 acres of land.
- The subject property is associated with a fueling station and automotive repair garage. Two (2) pumps are listed. Several additions have been made to the property building.
- The heat for the property building is listed as oil. A portion of the building is heated via oil stored in a 300-gallon AST. Lohr Equipment currently heats their space via a coal stove.

1.5.3 Aerial Photograph Review

A review of aerial photographs was performed by Pennsylvania Tectonics on the Internet at Penn Pilot (www.pennpilot.psu.edu) and Google Earth (www.google.com/earth). Aerial photographs are reviewed to ascertain past uses of the property and to determine if any of these uses may have resulted in potential environmental liabilities. Aerial photographs were available for the years 1939, 1960, 1969, 1992, 2005, 2011 and 2014. Refer to Appendix F for copies of available aerial photographs.

- **Aerial Photograph – 1939:** The 1939 aerial photograph depicts the subject property as the location of one (1) structure. This structure is believed to be a portion of the current property building. The properties surrounding the subject property are residential and agricultural in nature.
- **Aerial Photograph – 1960:** The 1960 aerial photograph depicts the subject property as the location of one (1) structure. Due to the poor quality of the photograph, site-specific observations are limited. The properties surrounding the subject property are residential and agricultural in nature.
- **Aerial Photograph – 1969:** The 1969 aerial photograph depicts the subject property as the location of one (1) structure. Due to the poor quality of the photograph, site-specific observations are limited. The properties surrounding the subject property are residential and agricultural in nature.

- **Aerial Photograph – 1992:** The 1992 aerial photograph depicts the subject property as the location of one (1) structure. This structure has the same footprint as the current property building. The subject property appears to be utilized as a fueling station and automotive repair garage at this time. The properties surrounding the subject property are residential and commercial in nature.
- **Aerial Photograph – 2005:** The 2005 aerial photograph depicts the subject property as the location of one (1) structure. This structure has the same footprint as the current property building. The subject property appears to be utilized as a fueling station and automotive repair garage at this time. Two (2) fuel dispensers and the UST field are visible at the subject property. The properties surrounding the subject property are residential and commercial in nature.
- **Aerial Photograph – 2011:** The 2011 aerial photograph depicts the subject property as the location of one (1) structure. This structure has the same footprint as the current property building. The current UST field is visible at the subject property. The properties surrounding the subject property are residential and commercial in nature.
- **Aerial Photograph – 2014:** The 2014 aerial photograph depicts the subject property as the location of one (1) structure. This structure has the same footprint as the current property building. The current UST field is visible at the subject property. The properties surrounding the subject property are residential and commercial in nature.

The results of the aerial photograph review indicate the subject property has been developed since at least 1939. The properties in the vicinity of the subject property have been utilized for a combination of residential, agricultural and commercial purposes.

1.5.4 Sanborn Map Review

A review of available Sanborn Maps is conducted by Pennsylvania Tectonics as part of the site characterization activities. Sanborn Maps are historical maps initially commissioned and assembled for fire insurance purposes. These maps often date to the late nineteenth century. Sanborn Maps typically include information regarding improvements, construction specifications and property use. A response from the Sanborn Map Company indicates that no Sanborn Maps are available for the subject property.

1.5.5 USGS Topographic Map Review

A review of available United States Geological Survey (USGS) topographical maps was conducted by Pennsylvania Tectonics as part of the site characterization activities. The subject property is located within the USGS (7.5 Minute Series) Scranton, Pennsylvania quadrangle. This quadrangle was initially compiled by photogrammetric methods from aerial photographs taken in 1942, field checked in 1947 and photorevised in 1969 and 1976. Historic topographic maps were researched on the Internet at MyTopo (www.mytopo.com). Historical topographic maps were available for the years 1891, 1947, 1976 and 1994. Refer to Appendix G for copies of the available topographic maps. The topographical map indicates the elevation of the subject property is approximately 1,510 feet above Mean Sea Level (M.S.L.). The following information was noted:

- **Topographic Map – 1891:** The 1891 topographic map depicts the subject property and the properties in the vicinity of the subject property as undeveloped land. The subject property appears to be located in a sparsely developed agricultural portion of Scott Township at this time.

- **Topographic Map – 1947:** The 1947 topographic map depicts the subject property as the location of one (1) structure. The properties surrounding the subject property are residential and agricultural in nature.
- **Topographic Map – 1976:** The 1976 topographic map depicts the subject property as the location of one (1) structure. The properties surrounding the subject property are residential and agricultural in nature.
- **Topographic Map – 1994:** The 1994 topographic map depicts the subject property as the location of one (1) structure. The properties surrounding the subject property are residential and agricultural in nature.

The results of the historical topographic map review indicate the subject property was developed with a single structure in the early 1900s.

1.5.6 Summary of Site History

Based on a review of the historical information summarized above, the following information is provided:

- The subject property was the location of a gasoline filling station and automobile service garage since the mid-1900s. These historical activities were conducted by the Lewis family. The subject property was also the location of a Dodge dealership for an unknown period of time.
- Most recently, the subject property was utilized as a gasoline filling station, automotive body shop and for storage. This filling station ceased retail operations in December 2003. Subsequently, the filling station was utilized in a limited capacity for the dispensing of gasoline to family members.
- Pennsylvania Tectonics pumped the residual gasoline from the storage tanks in May 2007, thereby ending the use of the site as a filling station. The automotive body shop ceased operations in August 2008. At the time of this report, a portion of the facility was utilized by Lohr Equipment as an equipment rental and welding shop. A private individual utilized the remainder of the facility for the storage and maintenance of snowmobiles.

1.6 UST Closure Activities

1.6.1 Review of Storage Tank Systems

A review of site history indicates the subject property was the historical location of a fueling station and automotive repair garage since the mid-1900s. This fueling station operated at the subject property from the mid-1900s until May 2007. The subject property is associated with the following documented UST systems:

Table 1-2
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Documented UST Systems

Tank #	Capacity	Product	Install Date	Removal Date
#001	2,000 Gallons	Leaded / Unleaded Gasoline	Unknown	March 1990
#002	3,000 Gallons	Leaded / Unleaded Gasoline	Unknown	March 1990
#003	6,000 Gallons	Unleaded Gasoline	March 1990	TOS*
#004	10,000 Gallons	Unleaded Gasoline	March 1990	TOS*
#005	1,000 Gallons	Used Motor Oil	Unknown	July 2010

*TOS = Temporarily Out of Service

In May 2007, Pennsylvania Tectonics pumped the residual product located within Tank #003 and Tank #004 and completed an amended UST registration form placing the tanks in Temporarily-Out-Of-Service status. Refer to Appendix H for a copy of the amended UST registration form.

1.6.2 Review of Tank Closure Activities – March 1990

In March 1990, two (2) UST systems (Tank #001 and Tank #002) were closed, via removal, at the subject property. According to Mr. John Lewis (deceased), the UST systems were removed by B&F Welding of Reading, Pennsylvania. On April 13, 2007, Pennsylvania Tectonics completed a review of available files at the PADEP Wilkes-Barre Regional Office as part of a Transaction Screen Process (TSP) conducted at the Lewis Brothers Garage Property. This TSP was conducted at the request of Community Bank & Trust of Clarks Summit, Pennsylvania in association with a due diligence package. No formal UST closure report existed in the PADEP file in association with the March 1990 UST closure activities. Miscellaneous documents included in the file indicated contamination was identified during the closure activities and an unknown quantity of contaminated soil was excavated. Upon completion of the tank closure and soil remediation activities, two (2) new USTs (Tank #003 and Tank #004) were installed in the cavity.

1.6.3 Review of Tank Closure Activities – July 2010

On July 27, 2010, Pennsylvania Tectonics completed the closure, via removal, of one (1) 1,000-gallon used motor oil UST at the subject property. This UST was located to the northeastern portion of the property. A total of two (2) soil samples were collected as part of the UST closure activities. The two (2) soil samples were analyzed for the Used Motor Oil Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems, as amended March 18, 2008. The results of the soil sampling program identified the absence of residual soil contamination in the vicinity of the 1,000-gallon used motor oil UST (Tank #005). Refer to Appendix I for a copy of the July 2010 UST Closure Report Forms.

1.7 Site Physiography

1.7.1 Regional Bedrock Geology and Hydrogeology

The subject property, in Scott Township, Lackawanna County, Pennsylvania, is located in the Appalachian Mountain Section of the Valley and Ridge Physiographic Province. According to the Pennsylvania Geologic Survey (Berg 1980), the bedrock geology characteristic of the subject property is the Devonian Age Catskill Formation. Refer to Appendix A for a Bedrock Geology Map (Figure 4).

The Catskill Formation is a complex geologic unit which has been divided into numerous members. However, for the purpose of this report, the Catskill will be addressed as an undifferentiated formation. Characteristically, the Catskill Formation is comprised of dark-grayish-red to reddish-brown shale, claystone and siltstone; greenish-gray and dark-grayish-red, fine to medium grained sandstone; and yellowish to greenish-gray, medium to coarse grained sandstone and conglomerate (Geyer 1982). Small amounts of grayish-brown calcareous conglomerate and greenish-gray conglomerate mudstone are present locally. Crossbedding, channeling and cut-and-fill features are typical of the sandstone and conglomerate units. Siltstone predominates in the lower part of the formation.

Hydrologically, the Catskill contains numerous water-bearing sandstones, which in most localities can be reached by wells of moderate depth. Secondary porosity accounts for the majority of the available groundwater. Joints, fractures and bedding plane partings provide a conduit through which groundwater flows within the formation. Most of the wells drilled into the Catskill yield from 5 to 25 gallons per minute, with yields up to and in excess of 100 gallons per minute being reported. The groundwater from the upper part of the Catskill is very soft and low in dissolved mineral matter. Although the groundwater from the lower Catskill is also of good quality, it may in some cases contain greater amounts of dissolved mineral matter. The Catskill Formation is an important source of groundwater throughout portions of Lackawanna County. Specifically, the subject property and all surrounding properties rely on private groundwater production wells to meet the demand for potable water.

Field observations collected during the completion of site characterization drilling activities indicate the study area is underlain by interbedded, red to gray sandstones and shales consistent with the Catskill Formation. The presence of groundwater in the bedrock appeared to be limited to secondary porosity features including joints, fractures and bedding plane partings.

1.7.2 Review of Surficial Geology

According to Braun (2006), the surficial geology characteristic of the subject property is associated with Quaternary Age Wisconsinan Till (Qwt). Braun describes this till as glacial or resedimented till, texturally a diamict, with a clayey, silty or sandy matrix depending on the local source bedrock. This till exhibits poor to multimodal sorting and is unstratified to crudely stratified with a clast fabric. According to Braun, the thickness of the till within the study area may be up to 30 feet. However, the thickness of the till observed during site characterization drilling activities ranged from 15.0 feet to 40.0 feet below grade. Refer to Appendix A for a Surficial Geology Map (Figure 5). Field observations also indicated the overburden soils encountered during drilling operations were consistent with that described by Braun, as well as the Morris series soils mapped for the site (Section 1.7.3).

1.7.3 Site Soils Discussion

According to the Pennsylvania Soil Conservation Survey (Eckenrode 1982), the general soil type characteristic of the subject property is the Morris channery loam, 3 to 8 percent slopes (MrB). Refer to Appendix A for a Soil Conservation Survey Map (Figure 6) depicting the subject property.

The Morris channery loam, 3 to 8 percent slopes (MrB), is a gently sloping, somewhat poorly drained soil on broad rolling uplands. Slopes are generally uniform. Areas of this soil are irregular in shape and range from about 3 to more than 60 acres in size. Typically, the surface layer of this soil is dark grayish brown channery loam about 10 inches thick. The upper part of the subsoil, to a depth of approximately 15 inches, is dark brown channery loam. The lower part of the subsoil, to a depth of 65 inches, is reddish brown and dark brown very firm and brittle gravelly loam and gravelly silt loam. Included with this soil in mapping are a few areas of Wellsboro, Chippewa and Volusia soils.

Also included in mapping are scattered areas of soils that have a more clayey subsoil. This soil is slowly permeable. Available water capacity is very low. Surface runoff is medium. The subsoil has a fragipan at a depth of approximately 12 to 20 inches. This soil has a seasonal high water table at a depth of 6 to 18 inches for long periods during wet seasons. Where unlimed, this soil is very strongly acid to medium acid in the surface layer and upper part of the subsoil. The seasonal high water table and slowly permeable subsoil limit this soil to most nonfarm uses and limitations for onsite waste disposal. The seasonal high water table is a potential hazard for buildings with subsurface basements. When buildings with basements are constructed on this soil, foundation drains with proper outlets should be used to prevent seepage of water into the basements. If disturbed, the hazard of erosion is moderate. The use of sod waterways helps to reduce runoff and control erosion. Diversions and covered drains are needed to help remove excess water.

1.7.4 Surface and Subsurface Drainage Discussion

The subject property is located within the Susquehanna River Basin. As such, the surface water runoff and the groundwater baseflow generated at the property eventually discharges into the Susquehanna River. Refer to Appendix A for a Local Watershed Map (Figure 7).

A review of topographic maps of the general area indicates that the closest surface water feature is an unnamed tributary to Hull Creek, which is located in the northeastern portion of the subject property. The headwaters of this tributary include a pond and forested wetlands located to the north of the subject property. The unnamed tributary flows in a southeasterly direction to its confluence with Hull Creek. Hull Creek flows in a southeasterly direction to its confluence with the Lackawanna River. The Lackawanna River flows in a southerly direction to its confluence with the Susquehanna River near the City of Pittston, Luzerne County, Pennsylvania.

A review of the Special Protection Waters for Lackawanna and Luzerne Counties, as listed in the Pennsylvania State Code Title 25 Chapter 93.9, indicates the unnamed tributary to Hull Creek, Hull Creek, this stretch of the Lackawanna River and the Susquehanna River are not classified as High Quality Cold Water Fisheries. This classification protects the listed waterways via the application of a variety of strict water quality standards.

1.7.5 Wetlands Discussion

Wetlands are defined in Pennsylvania State Code, Title 25 Chapter 105 Dam Safety and Waterway Management rules and regulations as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, including swamps, marshes, bogs, and similar areas. Similarly, the PADEP defines a watercourse as “a channel or conveyance of surface water having defined bed and banks, whether natural or artificial, with perennial or intermittent flow.” (as found in PA Code, Title 25 Environmental Protection, Chapter 105 Dam Safety and Waterway Management).

A National Wetlands Inventory (NWI) Map was reviewed as part of this investigation. NWI Maps are prepared by the U.S. Department of the Interior, Fish and Wildlife Service, Office of Biological Services for the National Wetlands Inventory Program. Wetland areas are identified on the maps based upon the method specified in the Classification of Wetlands and Deep Water Habitats of the United States, Cowardin, et al, 1977. Due to the scale of NWI maps and inaccuracies inherent in the methods of their preparation, many small wetland areas are not mapped for any given NWI quadrangle. The wetland boundaries identified on the NWI maps are developed through aerial photographic interpretation. The NWI Map for this project (Scranton, PA 7.5 Minute Series Quadrangle) identifies the presence of wetland areas on the subject property. This wetland area is depicted in the extreme northern portion of the subject property. This area is characterized as a palustrine, forested, broad leaved deciduous, seasonally saturated (PF01E) wetland. Refer to Appendix A for a National Wetland Inventory Map (Figure 8) depicting the subject property.

1.8 Surrounding Land Use

1.8.1 General

Pennsylvania Tectonics completed a surrounding land use investigation and a governmental database report review to determine if any surrounding properties have the potential to negatively impact the subject property.

1.8.2 Surrounding Land Use Investigation

An inspection of the areas surrounding the subject property was conducted in order to determine if any obvious signs of potential contamination were present. The subject property is located in a well-developed section of Scott Township, Lackawanna County, Pennsylvania. Refer to Appendix A for an Area Map (Figure 9). The surrounding land usage is as follows:

- **Northeast:** The subject property is bordered to the northeast by sparse residential development and forest land.
- **Southwest:** The subject property is bordered to the southwest by PA Route 347. Dense residential development is located to the southwest, across PA Route 347.
- **Northwest:** The subject property is bordered to the northwest by a vacant parcel of land. A commercial property, historically utilized by a taxidermist, and residential properties are located further to the northwest. Historically, the Elmer Rabel Oil Company was located to the northwest of the subject property at the intersection of Route 347 and Govan Road.
- **Southeast:** The subject property is bordered to the southeast by a private driveway. A vacant parcel of land and residential properties are located further to the southeast.

A review of site history and an inspection of the areas located between the adjacent parcels and the subject property were conducted in order to determine if any obvious signs of potential contamination were present. The following is offered:

- The former Elmer Rabel Oil Company property has the potential for environmental concerns based on the historical storage and/or use of petroleum products at that property. On July 25, 2008, Pennsylvania Tectonics completed a review of available files associated with the Elmer Rabel Oil Company (Facility ID#35-21110). This review was conducted at the PADEP Northeast Regional Office. The information reviewed indicated this facility historically maintained one (1) 15,000-gallon heating oil UST and one (1) 10,000-gallon AST (no substance listed). A PADEP correspondence dated May 12, 1993 indicated the closure of the UST system met PADEP closure standards at the time and no further investigation was warranted. No closure information was available pertaining to the AST system. No violations or indications of contamination were noted in the file associated with the Elmer Rabel Oil Company property.
- On February 15, 2012, Pennsylvania Tectonics received a telephone call from a Mr. John McKenney. Mr. McKenney indicated he owed the former taxidermy shop located at the intersection of PA Route 347 and Govan Road (41.499597, -75.629499). This property is located 225 feet northwest of the subject property and 300 feet southeast of the Rabel Property. He indicated a sewer lateral was installed at the taxidermy shop in August 2011. During the installation activities, a distinct “gasoline” odor was observed in the shallow (i.e. <4.0 feet) soils.

- Pennsylvania Tectonics investigated the taxidermy property on February 17, 2012 and met with Mr. McKinney. The following observations are offered:
 - Two (2) 275-gallon heating oil ASTs were observed in the basement. The ASTs were sound and no apparent leaks were observed.
 - No odors were observed in the basement of the building.
 - Wetlands were observed to the northeast, east and southeast of the building. Surface water was flowing through the wetlands and no sheens or malodors were observed.
 - Mr. McKinney provided Pennsylvania Tectonics with the name and phone number of the contractor (Mr. Mike Santarsiero). Several calls to Mr. Santarsiero went unanswered.
 - Mr. McKinney was asked if he was going to complete a subsurface investigation. His answer to that questions was “no”.

- As outlined in subsequent sections of this report, Pennsylvania Tectonics sampled the production well located at the taxidermy shop on June 20, 2008. This sample was analyzed for the Unleaded Gasoline Parameters. All compound concentrations were below detectable levels.

No documented evidence of potential environmental impacts from surrounding properties was observed during the completion of the site characterization activities. Furthermore, no potential sources of unleaded gasoline contamination were observed that may have caused or contributed to the groundwater contaminant plume at the subject property or at any of the offsite properties that have been impacted.

1.8.3 Governmental Database Review

A review of various state and federal records or databases concerning evidence of past or existing contamination or violations of environmental regulations was ordered from Environmental Data Resources, Incorporated (EDR). Refer to Appendix J for this report. The purpose of the database search is to identify properties that, due to their operating characteristics, may pose an environmental liability to the subject property as the result of a spill, leak or discharge of regulated materials. Sites of this nature include Small and Large Quantity Hazardous Waste Generators, Underground Storage Tank (UST) facilities and Leaking Underground Storage Tank (LUST) facilities. The database review also identifies those properties that have been investigated by the PADEP or USEPA for potential environmental concerns (CERCLIS Sites). The subject property is listed on the database review. A summary of the sites is included in the following table:

Table 1-3
Lewis Brothers Garage Property
Governmental Database Review
Summary of Geocoded Sites

Database Name	Search Radius	Number of Coded Sites
NPL	1.00 mile	0
NPL Delisted	0.50 mile	0
CERCLIS	0.50 mile	0
NFRAP	0.50 mile	0
RCRA COR ACT	1.00 mile	0
RCRA TSD	0.50 mile	0
RCRA GEN	0.25 mile	0
Federal IC / EC	0.50 mile	0
ERNS	0.25 mile	0
Tribal Lands	1.00 mile	0
State / Tribal Sites	1.00 mile	0
State Spill Sites 90	0.25 mile	0
State / Tribal SWL	0.50 mile	0
State / Tribal LUST Sites	0.50 mile	0
State / Tribal UST / AST	0.25 mile	1
State / Tribal EC	0.50 mile	0
State / Tribal IC	0.25 mile	0
State / Tribal VCP	0.50 mile	0
Brownfields	0.50 mile	0

One (1) geocoded site is listed in the governmental database report for the above listed records review. This site is associated with the subject property. The subject property is listed as a Registered Underground Storage Tank Site. The subject property is listed as maintaining two (2) UST systems utilized for the storage of gasoline. These systems include one (1) 6,000-gallon UST and one (1) 10,000-gallon system. These USTs are listed as Temporarily Out of Use. No additional information is given with this listing.

1.8.4 Summary

Based on the completion of the surrounding land use investigation and the review of the governmental database report, Pennsylvania Tectonics has not identified any properties which have the potential to impact the subject property.

2. SITE CHARACTERIZATION ACTIVITIES

2.1 General

The field activities associated with the completion of the Site Characterization Activities were conducted at the subject property between February 2008 and June 2016 under the supervision of Mr. Martin Gilgallon, P.G. of Pennsylvania Tectonics. The site characterization activities included the installation of forty (40) test borings; the collection / analysis of fifty-seven (57) soil samples; the completion of a fracture trace analysis; the installation of seventeen (17) shallow groundwater monitoring wells; the installation of ten (10) bedrock groundwater monitoring wells; the completion of seventeen (17) groundwater sampling events; the collection / analysis of eight (8) rounds of surface water samples; the collection / analysis drinking water samples from of seventy-four (74) surrounding properties; the completion of aquifer testing (slug tests and pumping test); the installation of six (6) soil vapor monitoring points; and, the collection / analysis of five (5) rounds of soil vapor samples.

2.2 Offsite Access Issues

Pennsylvania Tectonics was required to procure access to several offsite properties to complete the site characterization activities. The following properties were accessed as part of this investigation:

1. Ashley Jones Property (Former Amy Jarow Property)
Lackawanna County Parcel #092.04-040-015
Contact: Ashley Jones & Michael Saikowski
899 Justus Boulevard
Scott Township, PA 18447
Phone: (570) 862-3724
Monitoring Wells: MW-12s, MW-12D, VP-5
2. John and Denae Young Property (Former Peregrim Property)
Lackawanna County Parcel #092.04-040-016
Contact: Mr. John Young
889 Justus Boulevard
Scott Township, PA 18447
Phone: (570) 877-4231
Monitoring Wells: MW-10s, MW-10D, MW-11s, MW-11D, Various TBs
3. Siniawa Property
Lackawanna County Parcel #092.04-040-002-02
Contact: Ms. Barbara Siniawa-Zinski
11 Siniawa Lane
Scott Township, PA 18447
Phone: (570) 586-3816
Monitoring Wells: MW-13s, MW-13D, MW-14s
4. Hryhorcoff Property
Lackawanna County Parcel #092.04-040-014
Contact: Mr. Dan Hryhorcoff
913 Justus Boulevard
Scott Township, PA 18447
Phone: (570) 448-2895
Monitoring Wells: MW-16s

5. Konosky Property
Lackawanna County Parcel #092.04-040-010
Contact: Ronald or Maria Konosky
654 Green Grove Road
Scott Township, PA 18447
Phone: (570) 254-5230
Monitoring Wells: MW-15s

6. Scott Township Rights-of-Way
Hilltop Drive & Hermel Street
Contact: Ed Hlavaty – Chairman
1038 Montdale Road
Scott Township, PA 18447
Phone: (570) 319-1296
Monitoring Wells: MW-7s, MW-7D, MW-8s, MW-8D, MW-9s and MW-9D

7. Kovaleski Property
Lackawanna County Parcel #092.04-030-011-01
Contact: Karen Kovaleski
904 Justus Boulevard
Scott Township, PA 18447
Phone: (570) 586-8198
Monitoring Wells: MW-17s

8. Pascavage Property
Lackawanna County Parcel #092.04-030-001
Contact: Robert Pascavage
5 Hilltop Drive
Scott Township, PA 18447
Phone: (570) 587-2035
Monitoring Wells: VP-6, TB-40

2.3 Project Parameters

For the purpose of the site characterization and interim remedial activities summarized herein, the parameters of concern are limited to a combination of the Leaded Gasoline Parameters and the Unleaded Gasoline Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems, as amended December 15, 2012. The list of the “Project Parameters” is as follows:

- MTBE
- Benzene
- Ethylbenzene
- Cumene (Isopropylbenzene)
- Toluene
- Naphthalene
- Total Xylenes
- 1,3,5-TMB (not required prior to March 2008)
- 1,2,4-TMB (not required prior to March 2008)
- EDB / EDC (not required prior to September 12, 2013)
- Total / Dissolved Lead (not required prior to September 12, 2013)

Note, the inclusion of the Leaded Gasoline Parameters was required by the PADEP following the review of Pennsylvania Tectonics' "Final Site Characterization Report" dated June 19, 2013. The Leaded Gasoline Parameters were added to the parameter list for soil and groundwater sampling; however, these parameters were not added to the POET and drinking water sampling activities.

2.4 Site Soils Investigation

2.4.1 General

Pennsylvania Tectonics completed the Site Soils Investigation at the subject property between February 2008 and November 2015. These activities were conducted via the completion of three (3) distinct soil sampling events, as follows:

- 1st Event – February - March 2008
- 2nd Event – June 2008
- 3rd Event – November 2015

2.4.2 Overview of the Site Soil Investigation Protocol

Pennsylvania Tectonics completed a Site Soils Investigation at the subject property to determine the degree and distribution of soil contamination in association with the release of leaded and/or unleaded gasoline to the environment. The following protocols / rationale were followed during the completion of this investigation:

- Soil samples were collected from each test boring on a continuous basis utilizing Geoprobe® / direct push drilling techniques.
- The soil investigation was initiated in the source areas (i.e. product dispenser island, product piping and USTs). Additional soil borings were located horizontally away from the source areas in response to the detection of soil contamination. The goal of this investigation was to complete the horizontal and vertical delineation of the soil contamination.
- Physical features such as the onsite structure, the UST field and PA Route 347 limited the advancement of test borings in the direction of these features.
- Due to the depth to bedrock, the test borings were advanced to the groundwater surface or to equipment refusal. The test borings were advanced beyond the top of the groundwater surface to ensure the entire smear zone and a portion of the permanently saturated zones were investigated.
- All soil samples collected were visually inspected and field screened with a Photoionization Detector (PID) for volatile organic compounds (VOCs). Where only one (1) sample was collected from a test boring, the soil samples obtained for laboratory analysis were collected from the interval that expressed the greatest potential for contamination.
- Where only one (1) sample was collected from a test boring, and no evidence of potential contamination was detected, soil samples obtained for laboratory analysis were collected from the soil / groundwater interface or from the vadose zone to complete the horizontal delineation.
- Where two (2) soil samples were collected from a test boring, one (1) soil sample was obtained for laboratory analysis from the interval that expressed the greatest potential for contamination. The second soil sample was collected at the bedrock / soil interface or at the soil / groundwater

interface. Where no evidence of potential contamination was detected, one (1) soil sample was collected from the vadose zone at a depth determined on the professional opinion of the field geologist, with the second soil sample collected at the bedrock / soil interface or at the soil / groundwater interface.

2.4.3 Site Soil Investigation – February-March 2008

Between February 28, 2008 and March 3, 2008, Pennsylvania Tectonics installed a total of twenty-one (21) test borings (TB-1 through TB-21) to investigate and delineate residual contamination in the site soils. Refer to Appendix K of this report for the associated Test Boring Logs. Refer to Appendix A for a Test Boring Location Map (Figure 10A) depicting the locations of the twenty-one (21) test borings. A total of twenty-two (22) soil samples were collected from the subject property as part of these field activities. The twenty-two (22) soil samples were analyzed for the Unleaded Gasoline Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems (collectively the “Project Parameters”). A Soil Sample Log is provided as Table 2-1 to this report.

Table 2-1
Lewis Brothers Garage Property
Site Soils Investigation
Sample Log – February-March 2008 Field Activities

Sample Number	Description	Parameters
058-0228-TB1A	TB-1: 3.0' – 5.5'	Unleaded Gasoline Parameters
058-0228-TB1B	TB-1: 10.0' – 12.0'	Unleaded Gasoline Parameters
058-0228-TB2A	TB-2: 6.5' – 8.0'	Unleaded Gasoline Parameters
058-0228-TB3A	TB-3: 11.0' – 12.0'	Unleaded Gasoline Parameters
058-0228-TB4A	TB-4: 2.0' – 3.5'	Unleaded Gasoline Parameters
058-0228-TB6A	TB-6: 8.0' – 10.0'	Unleaded Gasoline Parameters
058-0228-TB7A	TB-7: 12.5' – 13.5'	Unleaded Gasoline Parameters
058-0228-TB8A	TB-8: 8.0' – 9.0'	Unleaded Gasoline Parameters
058-0228-TB9A	TB-9: 9.5' – 10.5'	Unleaded Gasoline Parameters
058-0228-TB9B	TB-9: 15.0' – 16.0'	Unleaded Gasoline Parameters
058-0303-TB12A	TB-12: 17.0' – 18.0'	Unleaded Gasoline Parameters
058-0303-TB13A	TB-13: 6.5' – 7.5'	Unleaded Gasoline Parameters
058-0303-TB13B	TB-13: 16.0' – 17.0'	Unleaded Gasoline Parameters
058-0303-TB14A	TB-14: 9.5' – 11.0'	Unleaded Gasoline Parameters
058-0303-TB15A	TB-15: 15.0' – 16.0'	Unleaded Gasoline Parameters
058-0303-TB16A	TB-16: 6.0' – 7.5'	Unleaded Gasoline Parameters
058-0303-TB17A	TB-17: 15.0' – 16.0'	Unleaded Gasoline Parameters
058-0303-TB18A	TB-18: 6.5' – 8.0'	Unleaded Gasoline Parameters
058-0303-TB18B	TB-18: 10.0' – 11.5'	Unleaded Gasoline Parameters
058-0303-TB18C	TB-18: 15.0' – 16.0'	Unleaded Gasoline Parameters
058-0303-TB19A	TB-19: 15.0' – 16.0'	Unleaded Gasoline Parameters
058-0303-TB21A	TB-21: 11.0' – 12.0'	Unleaded Gasoline Parameters

2.4.4 Site Soil Investigation – June 2008

On June 12, 2008, Pennsylvania Tectonics installed a total of four (4) test borings (TB-22 through TB-25) to complete the delineation of the soil contamination identified during the February – March 2008 field activities. Refer to Appendix K of this report for the associated Test Boring Logs. Refer to Appendix A for a Test Boring Location Map (Figure 10A) depicting the locations of the four (4) test borings. A total of five (5) soil samples were collected from the subject property as part of these field activities. The five (5) soil samples were analyzed for the Leaded Gasoline Parameters and the Unleaded Gasoline Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems. A Soil Sample Log is provided as Table 2-2 to this report.

Table 2-2
Lewis Brothers Garage Property
Site Soils Investigation
Sample Log – June 2008 Field Activities

Sample Number	Description	Parameters
058-0612-TB22	TB-22: 11.0' – 12.0	Leaded & Unleaded Gasoline
058-0612-TB23A	TB-23: 10.0' – 10.5'	Leaded & Unleaded Gasoline
058-0612-TB23B	TB-23: 12.5' – 13.3'	Leaded & Unleaded Gasoline
058-0612-TB24	TB-24: 12.8' – 13.0'	Leaded & Unleaded Gasoline
058-0612-TB25	TB-25: 6.0' – 6.5'	Leaded & Unleaded Gasoline

2.4.5 Site Soil Investigation – November 2015

2.4.5.1 Test Boring Location Rationale

The scope of work associated with the additional site characterization activities included the installation of fifteen (15) test borings (TB-26 through TB-40) to complete the delineation of the soil contamination identified at the subject property. The locations of the fifteen (15) test borings were established in the June 16, 2014 project request for bid and approved by the PADEP. These test boring locations required access to four (4) properties including the subject property (4 test borings), the Young (Peregrin) Property (6 test borings), the Strong Property 3 test borings) and Hilltop Drive (2 test borings). In addition, many of the proposed test borings were located in the PennDOT right-of-way. Therefore, a PennDOT Right of Entry (ROE) Agreement was required. A summary of issues related to obtaining offsite access are summarized as follows:

- Young Property: The initial access agreement was submitted to Mrs. Robin Peregrin, the then property owner, on November 17, 2014. Access was granted by Mr. John Young on September 27, 2015.
- Strong Property: The initial access agreement was submitted to Mr. Bernie Strong on November 17, 2014. Access to this property was ultimately denied.
- Hilltop Drive: The initial access agreement was submitted to the Scott Township Supervisors on November 17, 2014. Access to Hilltop Drive was ultimately denied.
- PennDOT ROE Agreement: Pennsylvania Tectonics initiated the PennDOT ROE Agreement process on November 5, 2014. An executed ROE Agreement was received by Pennsylvania Tectonics on March 19, 2015.

In response to the lack of access to the Strong Property and Hilltop Drive, an onsite meeting was conducted with the PADEP on March 10, 2015 to discuss alternative test boring locations. The following information is provided:

- It was agreed that the total number of test borings associated with this investigation would remain at fifteen (15). The four (4) test borings originally slated for the subject property would remain unchanged.
- It was agreed that access to the Young property would ultimately be approved, so the six (6) test borings originally slated for the Young property remained unchanged.
- Three (3) test borings were slated for the Strong Property. These test borings would be moved to the subject property.
- Two (2) test borings were slated for Hilltop Drive. One (1) of the test borings proposed for Hilltop Drive was moved to the Robert Pascavage Property, where access for the installation of a vapor sampling point had already been approved. The second test boring was moved to the subject property.
- Three (3) of the test borings relocated to the subject property were located along the outer edges of the September 2010 soil excavation cavity. The purpose of these three (3) test borings was to determine if any natural contaminant degradation had occurred since soil samples were collected in September 2010. These test borings were designated TB-26, TB-27 and TB-28.

2.4.5.2 Private Utility Markout

Prior to the installation of the proposed soil test borings and the proposed soil-vapor sampling points, a private utility mark out was conducted. The purpose of these activities was to confirm the absence of any buried obstructions or underground utilities in the proposed drilling locations. These activities were conducted on October 30, 2015 by Advanced Geological Services (AGS) of Malvern, Pennsylvania under the supervision of Pennsylvania Tectonics. To meet the objectives of this investigation, AGS utilized a combination of radio frequency utility locating techniques and ground penetrating radar. The results of the investigation indicated there were no conflicts at any of the fifteen (15) proposed locations. The then recently installed sanitary sewer lines (main and laterals) within the study area were located for inclusion on the site survey map. Other than the sanitary sewer, no buried utilities were identified.

Between November 11, 2015 and November 18, 2015, Pennsylvania Tectonics installed a total of fifteen (15) test borings (TB-26 through TB-40) to complete the delineation of the soil contamination identified at the subject property. Refer to Appendix K of this report for the associated Test Boring Logs. Refer to Appendix A for a Test Boring Location Map (Figure 10A) depicting the locations of the fifteen (15) test borings. A total of thirty (30) soil samples were collected from the subject property as part of these field activities. The thirty (30) soil samples were analyzed for the Leaded Gasoline Parameters and the Unleaded Gasoline Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems. A Soil Sample Log is provided as Table 2-3 to this report.

Table 2-3
Lewis Brothers Garage Property
Site Soils Investigation
Sample Log – November 2015 Field Activities

Sample Number	Description	Parameters
058-1110-TB26A	TB-26: 12.0' – 13.0'	Leaded & Unleaded Gasoline
058-1110-TB26B	TB-26: 14.5' – 15.5'	Leaded & Unleaded Gasoline
058-1110-TB27A	TB-27: 4.0' – 5.0'	Leaded & Unleaded Gasoline
058-1110-TB27B	TB-27: 16.0' – 17.0'	Leaded & Unleaded Gasoline
058-1110-TB28A	TB-28: 6.0' – 7.0'	Leaded & Unleaded Gasoline
058-1110-TB28B	TB-28: 13.5' – 14.5'	Leaded & Unleaded Gasoline
058-1110-TB29A	TB-29: 9.0' – 10.0'	Leaded & Unleaded Gasoline
058-1110-TB29B	TB-29: 14.5' – 15.5'	Leaded & Unleaded Gasoline
058-1110-TB30A	TB-30: 12.0' – 13.0'	Leaded & Unleaded Gasoline
058-1110-TB30B	TB-30: 15.0' – 16.0'	Leaded & Unleaded Gasoline
058-1110-TB31A	TB-31: 7.0' – 8.0'	Leaded & Unleaded Gasoline
058-1110-TB31B	TB-31: 13.5' – 14.5'	Leaded & Unleaded Gasoline
058-1110-TB32A	TB-32: 7.0' – 8.0'	Leaded & Unleaded Gasoline
058-1110-TB32B	TB-32: 15.0' – 16.0'	Leaded & Unleaded Gasoline
058-1110-TB33A	TB-33: 6.0' – 7.0'	Leaded & Unleaded Gasoline
058-1110-TB33B	TB-33: 16.0' – 17.0'	Leaded & Unleaded Gasoline
058-1110-TB34A	TB-34: 9.0' – 10.0'	Leaded & Unleaded Gasoline
058-1110-TB34B	TB-34: 19.0' – 20.0'	Leaded & Unleaded Gasoline
058-1110-TB35A	TB-35: 6.5' – 7.5'	Leaded & Unleaded Gasoline
058-1110-TB35B	TB-35: 17.0' – 18.0'	Leaded & Unleaded Gasoline
058-1110-TB36A	TB-36: 6.5' – 7.5'	Leaded & Unleaded Gasoline
058-1110-TB36B	TB-36: 11.5' – 12.5'	Leaded & Unleaded Gasoline
058-1110-TB37A	TB-37: 7.5' – 8.5'	Leaded & Unleaded Gasoline
058-1110-TB37B	TB-37: 18.0' – 19.0'	Leaded & Unleaded Gasoline
058-1110-TB38A	TB-38: 9.0' – 10.0'	Leaded & Unleaded Gasoline
058-1110-TB38B	TB-38: 18.0' – 19.0'	Leaded & Unleaded Gasoline
058-1110-TB39A	TB-39: 5.0' – 6.0'	Leaded & Unleaded Gasoline
058-1110-TB39B	TB-39: 13.5' – 14.5'	Leaded & Unleaded Gasoline
058-1110-TB40A	TB-40: 9.0' – 10.0'	Leaded & Unleaded Gasoline
058-1110-TB40B	TB-40: 13.0' – 14.0'	Leaded & Unleaded Gasoline

2.5 Groundwater Investigation

2.5.1 General

The Site Groundwater Investigation was initiated in March 2008 and was concluded in June 2016. Ultimately, this investigation included the completion of a fracture trace analysis, the installation of seventeen (17) shallow groundwater monitoring wells, the installation of ten (10) bedrock groundwater monitoring wells, the development of the monitoring wells, the completion of seventeen (17) groundwater sampling events (including full and partial events), the collection of drinking water samples from seventy-three (73) nearby private wells, and the completion of aquifer testing (slug tests and pump tests).

2.5.2 Fracture Trace Analysis / Private Well Information Summary

Pennsylvania Tectonics completed a Fracture Trace Analysis and Private Well Information Summary activities. The purpose of these activities was to collect geologic and hydrogeologic data to aid in understanding the potential contaminant migration pathways in the study area. Ultimately, the results of these investigations were utilized to locate monitoring wells MW-8s / MW-8D through MW-13s / MW-13D. Specifically, these monitoring wells were located along major fracture traces and lineaments in the vicinity of private groundwater production wells that were known to be impacted, thereby suggesting these geologic features may have served as a preferential pathway for contaminant migration. Refer to Appendix L for a copy of the April 10, 2009 report summarizing the results of these investigations.

2.5.3 Shallow Groundwater Monitoring Well Installations

Between March 2008 and August 2011, Pennsylvania Tectonics completed the field activities associated with the installation of seventeen (17) shallow groundwater monitoring wells (MW-1s through MW-17s) at the subject property and surrounding properties. This work was completed to characterize the shallow (i.e. unconsolidated) groundwater aquifer. Refer to Appendix A for a Monitoring Well Location Map (Figure 11) depicting the locations of the shallow groundwater monitoring wells.

The monitoring wells were completed utilizing either hollow stem auger (HSA) or air rotary drilling techniques. Each groundwater monitoring well was constructed by lowering PVC screen (0.010 slot) and PVC riser into the borehole. A sand pack consisting of No. 1 Morie sand was placed within the screened interval. A bentonite seal, consisting of bentonite pellets, was placed above the sand pack. Each well was completed with a flush grade manway with a locking inner cap. Refer to Appendix M for copies of the Monitoring Well Logs associated with the well installations and to Appendix N for the Well Construction Details. A summary of the well construction information is provided in Table 2-4, as follows:

Table 2-4
Lewis Brothers Garage Property
Well Construction Information
Shallow Groundwater Monitoring Wells

Well #	Depth	Screen Size	Screen Interval	Sand Size	Sand Interval
MW-1s	22.5'	0.010 Slot	22.5' – 4.5'	No. 1	22.5' – 4.0'
MW-2s	30.0'	0.010 Slot	30.0' – 10.0'	No. 1	30.0' – 9.8'
MW-3s	28.0'	0.010 Slot	28.0' – 8.0'	No. 1	28.0' – 7.0'
MW-4s	28.0'	0.010 Slot	28.0' – 8.0'	No. 1	28.0' – 7.0'
MW-5s	23.0'	0.010 Slot	23.0' – 5.0'	No. 1	23.0' – 3.9'
MW-6s	17.0'	0.010 Slot	17.0' – 2.0'	No. 1	17.0' – 1.0'
MW-7s	28.0'	0.010 Slot	28.0' – 3.0'	No. 1	28.0' – 2.0'
MW-8s	23.0'	0.010 Slot	23.0' – 3.0'	No. 1	23.0' – 2.0'
MW-9s	38.0'	0.010 Slot	38.0' – 8.0'	No. 1	38.0' – 7.0'
MW-10s	20.0'	0.010 Slot	20.0' – 3.0'	No. 1	20.0' – 2.0'
MW-11s	23.0'	0.010 Slot	23.0' – 3.0'	No. 1	23.0' – 2.0'
MW-12s	20.0'	0.010 Slot	20.0' – 3.0'	No. 1	20.0' – 2.0'
MW-13s	17.5'	0.010 Slot	17.5' – 3.0'	No. 1	17.5' – 2.0'
MW-14s	20.0'	0.010 Slot	20.0' – 3.0'	No. 1	20.0' – 2.0'
MW-15s	20.0'	0.010 Slot	20.0' – 3.0'	No. 1	20.0' – 2.0'
MW-16s	38.2'	0.010 Slot	38.2' – 18.2'	No. 1	38.2' – 17.0'
MW-17s	30.0'	0.010 Slot	30.0' – 10.0'	No. 1	30.0' – 8.0'

2.5.4 Bedrock Groundwater Monitoring Well Installations – Open Rock

Between June 2008 and October 2008, Pennsylvania Tectonics completed the field activities associated with the installation of four (4) bedrock groundwater monitoring wells (MW-1D, MW-2D, MW-6D and MW-7D) at the subject property and surrounding properties. This work was completed to characterize the bedrock groundwater aquifer. Refer to Appendix A for a Monitoring Well Location Map (Figure 11) depicting the locations of the bedrock groundwater monitoring wells.

Each boring was completed utilizing air rotary drilling techniques. The bedrock groundwater monitoring wells were constructed by installing a 15” boring through the overburden to the top of competent bedrock. 10” steel casing was then installed to the top of bedrock utilizing a drive shoe. A 10” rock socket was installed and 6” steel casing was installed from grade to the bottom of the rock socket. A bentonite / cement grout was then placed between the 10” steel casing and 15” boring and between the 6” steel and 10” steel casings. A 6” open rock borehole was then drilled until the first water bearing zone was encountered. Each well was completed with a flush grade manway with a locking inner cap. Refer to Appendix M for copies of the Monitoring Well Logs associated with the well installations and to Appendix N for the Well Construction Details. A summary of the well construction information is provided in Table 2-5, as follows:

**Table 2-5
Lewis Brothers Garage Property
Well Construction Information
Bedrock Groundwater Monitoring Wells – Open Rock**

Well #	Total Depth	Top of Bedrock	Rock Socket Interval	Open Rock Interval
MW-1D	70.0’	30.0’	30.0’ – 40.0’	40.0’ – 70.0’
MW-2D	85.0’	32.0’	32.0’ – 45.0’	45.0’ – 85.0’
MW-6D	85.0’	34.5’	34.5’ – 45.5’	45.5’ – 85.0’
MW-7D	60.0’	38.0’	38.0’ – 45.0’	45.0’ – 60.0’

2.5.5 Bedrock Groundwater Monitoring Well Installation – Screened

Between March 2010 and April 2010, Pennsylvania Tectonics completed the field activities associated with the installation of six (6) bedrock groundwater monitoring wells (MW-8D through MW-13D) at surrounding properties. This work was completed to characterize the bedrock groundwater aquifer. Refer to Appendix A for a Monitoring Well Location Map (Figure 11) depicting the locations of the bedrock groundwater monitoring wells.

Each boring was completed utilizing air rotary drilling techniques. The bedrock groundwater monitoring wells were constructed by drilling a 10” boring through the overburden to the top of bedrock. The 10” boring was then advanced into the bedrock creating a rock socket. An 8” steel casing was installed from grade to the bottom of the rock socket. A 7.5” borehole was then drilled until the first water bearing zone was encountered. Each groundwater monitoring well was constructed by lowering PVC screen (0.010 slot) and PVC riser into the borehole. A sand pack consisting of No. 1 Morie sand was placed within the screened interval. A layer of bentonite pellets was placed above the sand pack to prevent grout intrusion. A bentonite / cement grout was then tremied into the annular space from the top of the bentonite seal to grade. Each well was completed with a flush grade manway with a locking inner cap. Refer to Appendix M for copies of the Monitoring Well Logs associated with the well installations and to Appendix N for the Well Construction Details. A summary of the well construction information is provided in Table 2-6 as follows:

Table 2-6
Lewis Brothers Garage Property
Well Construction Information
Bedrock Groundwater Monitoring Wells – Screened

Well #	Total Depth	Top of Bedrock	Rock Socket Interval	Screen Interval	Sand Interval
MW-8D	100.0'	41.0'	41.0' – 50.0'	100.0' – 80.0'	100.0' – 77.0'
MW-9D	172.0'	52.0'	52.0' – 60.0'	172.0' – 152.0'	172.0' – 148.0'
MW-10D	186.0'	24.0'	24.0' – 34.0'	186.0' – 166.0'	186.0' – 162.0'
MW-11D	128.0'	24.0'	24.0' – 34.0'	128.0' – 108.0'	128.0' – 105.0'
MW-12D	201.0'	23.0'	23.0' – 32.0'	201.0' – 181.0'	201.0' – 177.0'
MW-13D	182.0'	19.0'	19.0' – 29.0'	182.0' – 162.0'	182.0' – 159.0'

2.5.6 Groundwater Monitoring Well Development Activities

Between March 2008 and August 2011, Pennsylvania Tectonics completed the field activities associated with the development of the seventeen (17) shallow groundwater monitoring wells and ten (10) bedrock groundwater monitoring wells. Development activities included the monitoring of the pH, temperature and specific conductance of the groundwater effluent extracted from the wells. Well development was deemed complete when the pH, temperature and specific conductance had stabilized for a minimum of three (3) consecutive readings. The development did continue even after chemical stabilization if observations indicated the presence of sediment in the groundwater effluent. In accordance with the provisions of the PADEP's *Groundwater Monitoring Guidance Manual* (December 1, 2001 edition), the groundwater effluent generated during the well development activities was handled as outlined below in Section 2.5.8. Refer to Appendix O for copies of the field notes associated with the groundwater well development activities.

2.5.7 Groundwater Monitoring Well Sampling

Between April 2008 and June 2016, Pennsylvania Tectonics completed seven (17) groundwater sampling events (full and partial) at the subject property. The scope of work associated with the completion of each groundwater sampling event included purging of the groundwater monitoring well utilizing a combination of hand bailing, submersible pump and low flow / low stress purging. Hand bailing and submersible pump purging activities included the monitoring of pH, temperature and specific conductance of the groundwater effluent extracted from the well. Low flow / low stress (*ASTM D 6771-02*) purging activities included the monitoring of pH, temperature, specific conductance, dissolved oxygen, turbidity and ORP of the groundwater effluent extracted from the wells. Depth to water was also monitored during low flow / low stress purging activities to ensure formation water was being sampled. Well purging was deemed complete when the pH, temperature and specific conductance had stabilized for a minimum of three (3) consecutive readings. In accordance with the provisions of the PADEP *Groundwater Monitoring Guidance Manual* (December 1, 2001 edition), the groundwater effluent generated during the well purging activities was handled as outlined below in Section 2.5.8. Copies of the well purging data generated by Pennsylvania Tectonics are included in Appendix O of this report.

The groundwater samples collected were analyzed for a combination of the Leaded Gasoline Parameters and the Unleaded Gasoline Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems. A summary of the groundwater sampling events is included in Table 2-7, as follows:

Table 2-7
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Groundwater Sampling Events

Sample Date	Wells	Parameters
April 5, 2008	MW-1s, MW-4s and MW-5s	Leaded & Unleaded Gasoline
July 10, 2008	MW-1s thru MW-6s, MW-1D, MW-2D, MW-6D and OW-1 thru OW-4	Leaded & Unleaded Gasoline
July 28, 2008	MW-1s Only	Unleaded Gasoline Parameters
April 6, 2009	MW-1s thru MW-6s, MW-1D, MW-2D, MW-6D, MW-7D and OW-1 thru OW-4	Unleaded Gasoline Parameters
March 9, 2010	MW-1s thru MW-6s, MW-1D, MW-2D, MW-6D, MW-7D and OW-1 thru OW-4	Unleaded Gasoline Parameters
August 2, 3 & 4, 2010	MW-1s thru MW-13s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Unleaded Gasoline Parameters
September 26, 27 & 28, 2011	MW-1s thru MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Unleaded Gasoline Parameters
November 9, 10 & 11, 2011	MW-1s thru MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Unleaded Gasoline Parameters
June 12, 13 & 14, 2012	MW-1s thru MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-3	Unleaded Gasoline Parameters
August 9, 2012	MW-12D Only	Unleaded Gasoline Parameters
October 2, 3 & 4, 2013	MW-1s thru MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Unleaded Gasoline Parameters
February 3, 4, 5 & 6, 2014	MW-2s thru MW-15s, MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Unleaded Gasoline Parameters
June 2, 3 & 4, 2014	MW-1s thru MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Unleaded Gasoline Parameters
November 21, 22, 23 & 24, 2014	MW-1s, MW-4s, MW-5s, MW-7s thru MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Project Parameters & Leaded Gasoline
October 6, 7 & 8, 2015	MW-2s thru MW-5s, MW-7s thru MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Project Parameters & Leaded Gasoline
March 30, 2016 thru April 1, 2016	MW-2s thru MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Project Parameters & Leaded Gasoline
June 22-23,	MW-1s thru MW-17s, MW-1D, MW-2D, MW-6D thru MW-13D and OW-4	Project Parameters & Leaded Gasoline

2.5.8 Disposition of Drilling and Sampling Wastes

Three (3) distinct waste streams were generated via the completion of the site characterization activities summarized above. These waste streams included drill cuttings, drill sludges (water, soil, rock) and drilling water / well development water / purge water. These waste streams were handled, as follows:

- Drill cuttings generated as part of the March 2008 well installation activities were staged onsite in twelve (12) 55-gallon steel drums. A soil stockpile was generated onsite in April 2008 as part of the investigation, and limited remediation, of the soils located in the immediate vicinity of the historic dispenser island and product feed lines. These drums were emptied by

Pennsylvania Tectonics personnel and placed on the existing soil pile for disposal. Soil disposal information is presented in Section 7.0 of this report.

- Drill cuttings generated as part of the June 2008, October 2008, March / April 2010 and May 2010 well installation activities were placed onto the existing soil stockpile for disposal.
- Drill cuttings generated via the installation of the new Jarrow Well (July 2011) and the August 2011 well installation activities were placed in a roll-off container and subsequently disposed of at the Keystone Sanitary Landfill located in Dunmore, Pennsylvania. A total of 9.38 tons of dry drill cuttings were handled in this manner. Refer to Appendix P for a copy of the September 14, 2011 weight ticket obtained from the landfill.

Drill sludges were defined as a combination of water, soil and rock that was too wet to place on the soil stockpile, or in the roll-off container, but too thick to filter and treat onsite. Drill sludges generated by Pennsylvania Tectonics were containerized in 55-gallon open top steel drums. Refer to Appendix Q for documentation associated with drummed waste disposal. For the sake of transportation and disposal, some of the drums were identified as “drill cuttings” vs. “drill sludges”, as indicated on the appropriate manifests. Four (4) distinct T&D events associated with the disposal of drummed waste materials were completed, as summarized in Table 2-8:

Table 2-8
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Drummed Waste T&D Events

Transportation Date	# Drill Cutting Drums	# Drill Sludge Drums
December 2, 2010	0 Drums	26 Drums
April 29, 2010	10 Drums	0 Drums
June 18, 2010	18 Drums	0 Drums
September 23, 2011	0 Drums	19 Drums
Totals	28 Drums	45 Drums

Drilling water, well development water and well purge water generated prior to April 30, 2009 was staged onsite in 55-gallon drums and in one (1) 300-gallon poly storage tank. A referenced in Section 7.7, a total of 1,136 gallons of effluent was collected by Eldredge following the completion of a high vapor extraction demonstration conducted on April 30, 2009. A total of 154 gallons of gasoline-impacted water was collected from a temporary poly tank staged onsite by Pennsylvania Tectonics. The remaining effluent (982 gallons) was pumped from eighteen (18) 55-gallon drums of well development water, well purge water and drilling water staged onsite.

Drilling water, well development water and purge water generated after April 30, 2009 was staged in temporary storage containers for treatment and ultimately discharged to the surface. This includes the waste water generated via the dewatering of the UST excavation cavity during the source reduction activities conducted in September 2010 (refer to Section 7.5) and groundwater effluent generated via aquifer testing conducted in August 2010 (refer to Section 2.5.10). Discharge events were conducted in accordance with a PADEP approved discharge permit and included the collection of confirmatory effluent samples for laboratory analysis. Refer to Appendix R for the laboratory analytical data sheets associated with the effluent samples collected during aqueous waste treatment events. Ten (10) distinct treatment events were conducted, as summarized in Table 2-9, as follows:

Table 2-9
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Aqueous Waste Treatment Events

Treatment Date	Gallons Treated	# Effluent Samples Collected
October 5, 2010 – October 11, 2010	12,140 Gallons	5 Samples
July 28, 2011 – August 5, 2011	1,000 Gallons	2 Samples
November 10, 2011	500 Gallons	2 Samples
May 18, 2012	300 Gallons	2 Samples
August 9, 2012	175 Gallons	1 Sample
October 3, 2013	300 Gallons	2 Samples
February 4, 2014	500 Gallons	2 Samples
June 4, 2014	200 Gallons	2 Samples
September 30, 2015	200 Gallons	1 Sample
May 3, 2016	300 Gallons	1 Sample
Totals	15,615 Gallons	20 Samples

2.5.9 Site Survey Activities

In May 2008, Pennsylvania Tectonics contracted with Mr. Pete DeWire, P.L.S. (License #14704) of Salem Consultants, Inc. of Selinsgrove, Pennsylvania to provide the professional survey services required to complete the site characterization activities. The survey information compiled by Mr. DeWire was utilized by Pennsylvania Tectonics to generate the base maps for the project. The initial survey referenced an arbitrary datum of 100.00'. The associated benchmark was established in the concrete floor of the frame and block building located onsite. In addition, the boundaries of the subject property were approximated based on site features and the Lackawanna County Tax Maps.

In November 2015, Mr. DeWire was contracted to complete additional site survey activities. These surveying activities included the following:

- A legal boundary survey completed for the Lewis Brothers Garage Property. The boundaries of all other properties included in the investigation were approximated based on a review of Lackawanna County Tax Maps.
- The PennDOT right-of-way along PA Route 347 was located and depicted on the map.
- All pertinent Site features were depicted on the map including the building, current tank cavity, subsurface utilities, etc.
- All existing groundwater monitoring wells, soil test borings, soil vapor sampling points, surface water sample locations and SVE extraction and monitoring points were located. In addition, the vertical coordinates of all of these features were determined and reported.
- Any and all subsurface anomalies identified via the completion of the private utility mark outs were included on the site map.
- The benchmark elevation was obtained by referencing the approximate ground surface elevation of the Site based on local USGS data. A new elevation of 1,514.00' M.S.L. was established for the historical benchmark.

- All historical site elevation data including, but not limited to, test boring elevations, monitoring well TOC elevations, groundwater elevations, etc., were revised to reflect the new benchmark elevation. All associated figures and tables were revised as necessary.

Due to the amount of data points generated over the course of this project, the preparation of one (1) singular site survey map was not practical, as such a map would be too busy. A base survey map and the associated point files are included in Appendix S of this report.

2.5.10 Determination of Groundwater Flow

As part of the site characterization activities summarized above, Pennsylvania Tectonics constructed groundwater contour maps to determine the direction of groundwater flow beneath the study area. Groundwater contour maps were prepared for both the unconsolidated and bedrock aquifers. Pennsylvania Tectonics utilized the depth to groundwater data collected between April 2008 and June 2016. Salem Consultants, Incorporated determined the well casing elevations via the completion of site surveys and level runs. These elevations were referenced to an arbitrary datum established on the site. The direction of groundwater flow was determined via the use of EnviroInsite 6.0 software (copyright HydroAnalysis, Incorporated, 2007). A table summarizing the historical depth to groundwater data and the associated groundwater elevation information is provided in Appendix T. Copies of the groundwater contour maps are included in Appendix U. Site-specific observations are as follows.

- The most recent groundwater contour map constructed for the shallow aquifer utilizing the depth to groundwater data collected in June 2016 includes all seventeen (17) shallow monitoring wells. This map identifies a convergent flow pattern in the extreme southeastern portion of the study area. This convergent flow pattern results from an anomalously deep static water level in MW-16s. A review of the associated test boring log for this well indicates varying degrees of clay were encountered in the glacial till at this location. In addition, the glacial till was observed to be dry to moist, with no distinct water bearing zones. The low permeability of the soils appears to be limiting groundwater recharge into the well bore. Historical contour maps were generated by omitting MW-16s. These contours depict a distinct groundwater flow direction to the southeast, which would be expected based on a review of topography and local drainage patterns.
- Stream elevation data was not utilized to generate the shallow groundwater contour maps. The surface water elevation behind the Lewis Brothers garage was 4.40 feet above the static water level measured in MW-5s, the closest groundwater monitoring well. This variation suggests the unnamed tributary is not a gaining stream and, therefore, stream elevation data was not utilized to generate groundwater contours.
- Pennsylvania Tectonics calculated two (2) distinct hydraulic gradients for the shallow aquifer. The hydraulic gradient in the shallow aquifer from Hermel Street to Siniawa Lane was determined to be 0.049 feet / foot to the southeast (June 22, 2016 data). This gradient reflects the subtle topographic gradient in this portion of the study area. The hydraulic gradient in the shallow aquifer from Siniawa Lane to MW-15s was determined to be 0.092 feet / foot to the southeast (June 22, 2016 data). This gradient reflects the distinct topographic gradient in this portion of the study area.
- Groundwater flow within the bedrock system is fracture controlled and the potentiometric level in each well is a reflection of the head potential of each intersected bedrock fracture in that well. Two (2) groundwater contour maps (i.e. potentiometric surface maps) were constructed for the

bedrock aquifer utilizing the depth to groundwater data collected in June 2016. The first contour map includes all ten (10) bedrock groundwater monitoring wells. A review of the potentiometric surface map associated with the bedrock aquifer reveals significant variation in head potential, which is typical of a fracture-controlled groundwater regime. The second groundwater contour map was generated by eliminating the data from MW-2D and MW-7D, the two (2) wells that exhibited the highest head potentials. In general, the potentiometric contours in the second map indicate a distinct groundwater flow to the southeast. The data generated from MW-8D, situated in Hermel Street, suggests groundwater in the northern portion of the study area may flow to the northwest. This direction of flow would be consistent with the local drainage divide observed via the review of local surface water drainage patterns.

- A review of groundwater elevation data from shallow / deep well pairs, specifically a comparison of the hydraulic heads at each well pair, indicates there is a distinct downward vertical component of flow in the study area. This downward component of flow was confirmed via the completion of borehole geophysics on the Old Jarrow Well (Section 7.6.3).

2.5.11 Aquifer Testing

2.5.11.1 Slug Test Data Evaluation

The proposed scope of work summary associated with the Site Groundwater Investigation included the completion of slug tests at the subject property. Three (3) slug testing events were conducted, as summarized in Table 2-10, as follows:

Table 2-10
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Slug Testing Events

Test Date	Wells Tested
August 1, 2008	MW-2s, MW-3s, MW-4s and MW-5s
August 19, 2010	MW-7s, MW-8s, MW-9s, MW-10s, MW-11s, MW-12s, MW-8D, MW-9D, MW-10D, MW-11D, MW-12D and MW-13D
May 3 & 4, 2016	MW-2s, MW-3s, MW-4s, MW-10s, MW-11s, MW-2D, MW-7D, MW-10D, MW-11D

In each case, an In-Situ Level Troll 700 data logger was placed in the well and set to record water level data at short-term intervals. Each test was started with the introduction of a solid PVC slug. The water level was then monitored with a hand-held data recorder until the water level returned to static or near static (i.e. 95% recovery) levels. A slug-out test was completed on each well by rapidly removing the slug from the saturated zone. The slug-out data was collected until static or near static levels were achieved.

The slug test data generated at the subject property was processed utilizing “Aquifer Test” software designed by Waterloo Hydrogeologic (copyright 1996-1999). The Hvorslev Slug Test method was the chosen method to evaluate the data. The Hvorslev (1951) Slug Test is designed to estimate the hydraulic conductivity of an aquifer. The Hvorslev Slug Test is based on the following equation:

$K = [r^2 \ln(L/R)] / 2LT_0$, where:

K = Hydraulic Conductivity

r = radius of well casing

R = Effective Radius

L = Length of Well Screen plus Filter Packing

T₀ = Time to Reach 37% of H₀

With the slug test, the portion of the aquifer “sampled” for hydraulic conductivity is small compared to a pumping test and is limited to a cylindrical area of small radius immediately surrounding the well boring. The Hvorslev Method can be applied to confined and unconfined conditions (Weight and Sonderegger, 2001). The results of the slug test analyses are included in Table 2-11. Refer to Appendix V-1 for copies of the graphics associated with the slug test calculations. The following assumptions were made during the data entry portion of the analyses:

1. Slug tests were completed on ten (10) shallow monitoring wells and eight (8) bedrock monitoring wells as summarized in Table 2-10.
2. Pennsylvania Tectonics utilized only the slug-out data (i.e. rising head data) to calculate the Hydraulic Conductivity (K). For those wells where multiple tests were conducted, the tests were identified as MW-1 A (1st test), MW-1 B (2nd test) and MW-1 C (3rd test), for example. As such, two (2) or more curves depicting h/h₀ vs. time are provided in Appendix V-1 for each well where multiple tests were performed.
3. The slug-in data (i.e. falling head) generated during these activities were not utilized for calculating any of the hydraulic conductivity values.
4. The eighteen (18) groundwater monitoring wells were completed with varying construction specifications. Well specific construction information was utilized during the analysis of the slug test data.
5. Calculations of aquifer parameters from aquifer tests can, at best, be considered only estimates of the hydraulic properties of the aquifer near the test well (Davis 1989).
6. The Saturated Aquifer Thickness for each well was the total depth of the drilled borehole minus the static water level prior to the introduction of the “slug”.
7. The water level at t=0 was determined based on the lowest water level recorded in the well subsequent to the removal of the “slug”.
8. Due to the small intervals of groundwater fluctuation being observed, the collection of hand-generated data was not feasible during the completion of the slug tests.

The resulting data was utilized to calculate the hydraulic conductivity of the shallow groundwater aquifer. These results are presented in Table 2-11, as follows:

Table 2-11
Lewis Brothers Garage Property
Site Characterization Activities
Hydraulic Conductivity (K) Data – Shallow Aquifer

Well #	# of Tests Performed	K – Average (ft/min)	K – Average (cm/sec)
MW-2s	4	8.23×10^{-3}	4.18×10^{-3}
MW-3s	4	4.41×10^{-3}	2.24×10^{-3}
MW-4s	4	8.93×10^{-5}	4.54×10^{-5}
MW-5s	3	7.70×10^{-5}	3.91×10^{-5}
MW-7s	1	1.53×10^{-3}	7.78×10^{-4}
MW-8s	1	6.45×10^{-4}	3.28×10^{-4}
MW-9s	1	7.54×10^{-4}	3.83×10^{-4}
MW-10s	2	1.35×10^{-5}	6.86×10^{-6}
MW-11s	2	1.39×10^{-3}	7.10×10^{-4}
MW-12s	2	1.24×10^{-4}	6.30×10^{-5}

The resulting data was utilized to calculate the hydraulic conductivity of the bedrock groundwater aquifer. These results are presented in Table 2-12, as follows:

Table 2-12
Lewis Brothers Garage Property
Site Characterization Activities
Hydraulic Conductivity (K) Data – Bedrock Aquifer

Well #	# of Tests Performed	K – Average (ft/min)	K – Average (cm/sec)
MW-2D	1	1.20×10^{-5}	6.10×10^{-6}
MW-7D	1	4.94×10^{-4}	2.51×10^{-4}
MW-8D	1	3.13×10^{-4}	1.59×10^{-4}
MW-9D	2	2.99×10^{-3}	1.52×10^{-3}
MW-10D	2	1.02×10^{-4}	5.18×10^{-5}
MW-11D	2	9.64×10^{-4}	4.90×10^{-4}
MW-12D	3	4.97×10^{-3}	2.52×10^{-3}
MW-13D	2	4.33×10^{-3}	2.20×10^{-3}

A review of the hydraulic conductivity data for the shallow aquifer indicates the K values calculated vary across the site by two (2) orders of magnitude (when comparing K values in ft/min) and are consistent with typical values for glacial deposits as presented by Driscoll (1986). A review of the hydraulic conductivity data for the bedrock aquifer indicates the K values calculated vary across the site by two (2) orders of magnitude.

2.5.11.2 Background Conditions – Natural Water Level Fluctuations

Prior to the initiation of the aquifer testing activities, Pennsylvania Tectonics monitored background groundwater elevation fluctuations. The following summary is provided:

Aquifer Testing – August 2010

- Background conditions were monitored in three (3) shallow monitoring wells (MW-4s, MW-10s, MW-11s); in four (4) deep monitoring wells (MW-2D, MW-10D, MW-11D (i.e. the pumping well) and MW-12D); and in two (2) domestic wells (Fryzel and Strong). Refer to Appendix V-2 for graphs depicting depth to water vs. time.
- The background data was collected to aid in interpreting the pump test results by establishing trends in natural groundwater fluctuations (e.g. barometric changes, changes in response to precipitation events) and by establishing trends in groundwater fluctuations in response to the pumping of groundwater in the numerous private wells located in the vicinity of the study area. The background data was collected from October 1, 2010 through the start of the Step Pump Test on October 5, 2010. During this period of time, 1.01 inches of precipitation fell.
- The groundwater levels in the shallow wells rose steadily over time in response to the precipitation, and then leveled off prior to the initiation of the Step Pump Test.
- The groundwater levels in MW-2D rose steadily during the background period and did not appear to be affected by local groundwater pumping. MW-2D is relatively shallow (85.0 feet total depth) compared to other bedrock monitoring wells and the nearby production wells. Furthermore, MW-2D is a low yielding well and no major water bearing fractures were encountered during the well installation process. The low yield characteristics of the well, coupled with the lack of response to local groundwater pumping, suggests this monitoring well is not well connected to the local bedrock fracture system.
- The groundwater levels in MW-10D and MW-12D actually fell during the background period and appear to be affected by local pumping. Recharge was apparent in these wells following the completion of the Step Pump Test and a precipitation event on October 5, 2010. MW11D and MW-12D are screened across water bearing fractures at depths greater than 160 feet below grade. These fractures may be intercepted by local domestic wells.
- The groundwater levels in MW-11D, the pumping well, were fairly stable during the background period, but did reflect subtle changes in response to local pumping. This well is screened across water bearing fractures between 108' and 128' below grade.
- The Fryzel well (which is shared with Beverly Bright) and the Strong well showed frequent pumping activity. Drawdown in these wells may be attributed to the pumping the wells themselves, plus influences caused by the pumping of neighboring wells. Both wells also expressed a lag time in recharge following the precipitation events.
- Historically, the Old Jarrow well and the Crossley well expressed the highest concentrations of unleaded gasoline contamination. The Old Jarrow well was active at the time of the pumping tests. Due to the presence of plumbing centralizers in the well, the transducer could not be advanced into the water column. The Crossley well was buried and not accessible at the time of the tests.

Aquifer Testing – May 2016

- Background conditions were monitored in five (5) shallow monitoring wells (MW-2s, MW-4s, MW-6s, MW-10s and MW-11s); and in four (4) deep monitoring wells (MW-2D, MW-7D,

MW-10D and MW-11D). Refer to Appendix V-2 for graphs depicting depth to water vs. time.

- The background data was collected to aid in interpreting the pump test results by establishing trends in natural groundwater fluctuations (e.g. barometric changes, changes in response to precipitation events) and by establishing trends in groundwater fluctuations in response to the pumping of groundwater in the numerous private wells located in the vicinity of the study area. The background data was collected from May 16, 2016 through the start of the Step Pump Test at MW-11D on May 18, 2016. No measurable precipitation fell during this period.
- The groundwater levels in the shallow wells remained steady during the background period. The groundwater levels in the shallow wells remained steady during and after the Step Pump Test at MW-11D.
- The groundwater levels in the deep monitoring wells remained fairly steady during the background period. Minor fluctuations due to local pumping at the neighboring production wells were observed.

2.5.11.3 Step Pumping Tests

The proposed scope of work summary associated with the Site Groundwater Investigation included the completion of Step Pumping Tests at the subject property. Three (3) Step Pumping Test events were conducted, as summarized in Table 2-13, as follows:

Table 2-13
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Step Pumping Test Events

Test Date	Well Tested
October 5, 2010	MW-11D
May 18, 2016	MW-11D
May 19, 2016	MW-2s

The scope of work associated with the Step Pumping Tests was initiated with a review of slug test data to determine which well would be utilized for the step and constant rate pumping tests. The following rationale is offered:

- Three (3) deep groundwater monitoring wells are present on the Lewis Brothers Garage property. These include MW-1D, MW-2D and MW-6D. Each well was drilled to the first water bearing zone and are relatively shallow compared to other deep monitoring wells and the surrounding domestic wells. Attempts to slug test MW-2D were unsuccessful, as the water level did not recover to within 90% of static for either the falling head or rising head slug tests. Therefore, the slug test data was not evaluated. MW-1D and MW-6D are very low yielding wells based on data collected during development and purging. Therefore, none of the onsite wells could be utilized for the pumping tests.
- Of the six (6) remaining deep monitoring wells, MW-9D, MW-12D and MW-13D had the higher calculated K values. However, these wells are located on the edges of the well network, away from the deep aquifer contaminant plume. As such, these wells were not selected as the pumping well, since it was unlikely that they would ever be utilized for recovery.

- MW-11D had the next highest K value and was located near the area of contamination. As such, this well was chosen as the pumping well. The slug test data generated in 2016 was consistent with the 2010 data.
- A review of the slug test data indicates MW-2s had the highest K value of all the shallow monitoring wells tested. Based on this result, in conjunction with the fact that MW-2s is one of the more contaminated monitoring wells, this well was chosen for the completion of further aquifer testing.

2.5.11.3.1 October 5, 2010 Step Pumping Test – MW-11D

A Step Pumping Test was completed on MW-11D on October 5, 2010. MW-11D was utilized as the pumping well. The following setup information is provided. With the exception of static water level, all measurements were referenced to grade.

- Total Depth of MW-11D: 128.0'
- Screened Interval: 108' – 128'
- Water Bearing Zone: 120' – 121'
- Pump Depth: 125'
- Transducer Depth: 120'
- Static Water Level: 74.06'
- Maximum Available Drawdown: 45.94'

Based on drilling logs, estimates of potential yield during drilling and well development and purge data, Pennsylvania Tectonics concluded this well would be a relatively low yielding well. As such, the step test was initiated at 6.0 gallons per minute (gpm). In response to a rapid drawdown of nearly 10.0 feet, initial pumping rate was reduced to an average of 1.2 gpm. Refer to Appendix V-3 for graphics associated with the October 5, 2010 Step Pumping Test calculations. A summary of the step test data is as follows:

Table 2-14
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Step Test Data (MW-11D) – October 5, 2010

Step	Time	Average Q	Drawdown	Specific Capacity
Step 1	0830-1032	1.2 gpm	5.78'	0.21 gpm/ft
Step 2	1032-1230	2.0 gpm	7.77'	0.26 gpm/ft
Step 3	1230-1331	2.7 gpm	15.68'	0.17 gpm/ft
Step 4	1331-1430	3.0 gpm*	9.65'	Not Determined

(*) Step 4 initiated at 3.0 gpm, but was terminated in response to excessive drawdown.

Determination of Specific Capacity:

Pennsylvania Tectonics utilized the data generated from Step 1, Step 2 and Step 3 of the capacity test for determining the Specific Capacity of the well. Step 4 data was not utilized since the pumping rate of 3.0 gpm caused excessive drawdown, which would have led to the dewatering of the well. The Specific Capacity was determined as follows:

- Total Drawdown Steps 1, 2 and 3 = 29.23'
- Average Pumping Rate Steps 1, 2 and 3 = 1.97 gallons per minute
- **Specific Capacity = 1.97 gpm / 23.23' = 0.09 gpm / foot of drawdown**

Estimation of Aquifer Transmissivity:

Specific Capacity data can be utilized to estimate the Transmissivity of the aquifer, as follows:

- Transmissivity (T) = 2000 x Specific Capacity (where 2000 is a constant for confined aquifers, after Driscoll 1986)
- **T = 2000 x 0.09 gpm / ft = 180 gpd / ft**

Review of Residual Drawdown (Recovery) Data

Pennsylvania Tectonics collected groundwater recovery data subsequent to the completion of the Step Test. Residual drawdown (ft) vs. Ratio t / t' data were graphed. The residual drawdown plot is displaced from the theoretical curve, indicating that aquifer conditions do not conform to the assumed idealized conditions. In the case of MW-11D, groundwater recovery was affected by recharge to the aquifer. This recharge is expected based on the significant precipitation events that occurred prior to the test and a review of the groundwater level data vs. time for all of the wells, including the pumping well. Transmissivity was calculated using residual drawdown vs. the Ratio t/t' , as shown in Appendix V-3. The Transmissivity was calculated to be 16.78 gpd/ft of drawdown.

2.5.11.3.2 May 18, 2016 Step Pumping Test – MW-11D

A Step Pumping Test was completed on MW-11D on May 18, 2016. MW-11D was utilized as the pumping well. The following setup information is provided. With the exception of static water level, all measurements were referenced to grade.

- Total Depth of MW-11D: 128.0'
- Screened Interval: 108' – 128'
- Water Bearing Zone: 120' – 121'
- Pump Depth: 125'
- Transducer Depth: 119.3'
- Static Water Level: 72.03'
- Maximum Available Drawdown: 47.27'

Based on drilling logs, estimate of potential yield during drilling and well development and purge data, Pennsylvania Tectonics concluded this well would be a relatively low yielding well. During startup the control valve became stuck in the open position and could not be closed. The valve was replaced and the pumping rate was slowed to allow the well to recharge. As such, the step test was initiated at 4.8 gallons per minute (gpm). In response to drawdown of 40.21 feet, initial pumping rate was reduced to an average of 2.8 gpm which allowed for 5.49 feet of recovery. The pump rate was increased to 3.7 gpm which lead to excessive drawdown. The pump rate was reduced to 3.1 gpm which allowed for 0.18 feet of recovery. Refer to Appendix V-4 for graphics associated with the May 18, 2016 Step Pumping Test calculations. A summary of the step test data is as follows:

Table 2-15
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Step Test Data (MW-11D) – May 18, 2016

Step	Time	Average Q	Drawdown	Specific Capacity
Step 1	1000-1022	4.8 gpm	40.21'	Not Determined
Step 2	1022-1126	2.8 gpm	-5.49'	Not Determined
Step 3	1126-1151	3.7 gpm	12.55'	0.29 gpm/ft
Step 4	1151-1335	3.1 gpm	-0.18	Not Determined

Determination of Specific Capacity:

Pennsylvania Tectonics utilized the data generated from Step 3 of the capacity test for determining the Specific Capacity of the well. Step 1, Step 2 and Step 4 data was not utilized since the well exhibited excessive drawdown or recovery during these periods. The Specific Capacity was determined as follows:

- Total Drawdown Step 3 = 12.55'
- Average Pumping Rate Step 3 = 3.7 gallons per minute
- **Specific Capacity = 3.7 gpm / 12.55' = 0.29 gpm / foot of drawdown**

Estimation of Aquifer Transmissivity:

Specific Capacity data can be utilized to estimate the Transmissivity of the aquifer, as follows:

- Transmissivity (T) = 2000 x Specific Capacity (where 2000 is a constant for confined aquifers, after Driscoll 1986)
- **T = 2000 x 0.29 gpm / ft = 580 gpd / ft**

Review of Residual Drawdown (Recovery) Data

Pennsylvania Tectonics collected groundwater recovery data subsequent to the completion of the Step Test. Residual drawdown (ft) vs. Ratio t / t' data were graphed. The residual drawdown plot is displaced from the theoretical curve, indicating that aquifer conditions do not conform to the assumed idealized conditions. In the case of MW-11D, groundwater recovery was affected by recharge to the aquifer. This recharge is expected based on the significant precipitation events that occurred prior to the test and a review of the groundwater level data vs. time for all of the wells, including the pumping well. Transmissivity was calculated using residual drawdown vs. the Ratio t/t' , as shown in Appendix V-4. The Transmissivity was calculated to be 20.30 gpd/ft of drawdown.

2.5.11.3.3 May 19, 2016 Step Pumping Test – MW-2s

A Step Pumping Test was completed on MW-2s on May 19, 2016. MW-2s was utilized as the pumping well. The following setup information is provided. With the exception of static water level, all measurements were referenced to grade.

- Total Depth of MW-2s: 30.0'
- Screened Interval: 10.0' – 30.0'
- Water Bearing Zone: 13.48' – 30.0'
- Pump Depth: 27.0'
- Transducer Depth: 26.0'
- Static Water Level: 13.48'
- Maximum Available Drawdown: 12.52'

Based on drilling logs, estimate of potential yield during drilling and well development and purge data, Pennsylvania Tectonics concluded this well would be a relatively low yielding well. As such, the step test was initiated at 0.5 gallons per minute (gpm). Refer to Appendix V-5 for graphics associated with the May 19, 2016 Step Pumping Test calculations. A summary of the step test data is as follows:

Table 2-16
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Step Test Data (MW-2s) – May 19, 2016

Step	Time	Average Q	Drawdown	Specific Capacity
Step 1	0900 - 1000	0.5 gpm	0.57'	0.88 gpm/ft
Step 2	1000 - 1100	1.25 gpm	1.03'	1.21 gpm/ft
Step 3	1100 - 1200	2.5 gpm	1.81'	1.38 gpm/ft
Step 4	1200 - 1300	2.53 gpm	0.89'	2.84 gpm/ft

Determination of Specific Capacity:

Pennsylvania Tectonics utilized the data generated from Step 1, Step 2, Step 3 and Step 4 of the capacity test for determining the Specific Capacity of the well. The Specific Capacity was determined as follows:

- Total Drawdown Steps 1, 2, 3 and 4 = 4.30'
- Average Pumping Rate Steps 1, 2, 3 and 4 = 1.70 gallons per minute
- **Specific Capacity = 1.70 gpm / 4.30' = 0.40 gpm / foot of drawdown**

Estimation of Aquifer Transmissivity:

Specific Capacity data can be utilized to estimate the Transmissivity of the aquifer, as follows:

- Transmissivity (T) = 2000 x Specific Capacity (where 2000 is a constant for confined aquifers, after Driscoll 1986)
- **T = 2000 x 0.40 gpm / ft = 800 gpd / ft**

Review of Residual Drawdown (Recovery) Data

Pennsylvania Tectonics collected groundwater recovery data subsequent to the completion of the Step Test. Residual drawdown (ft) vs. Ratio t / t' data were graphed. Transmissivity was calculated using residual drawdown vs. the Ratio t/t' , as shown in Appendix V-5. The Transmissivity was calculated to be 597.67 gpd/ft of drawdown.

2.5.11.4 Constant Rate Pumping Test

The proposed scope of work summary associated with the Site Groundwater Investigation included the completion of Constant Rate Pumping Tests at the subject property. Three (3) Constant Rate Pumping Test events were conducted, as summarized in Table 2-17, as follows:

Table 2-17
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Constant Rate Pumping Test Events

Test Date	Well Tested
October 11, 2010	MW-11D
May 20, 2016	MW-2s
May 25, 2016	MW-11D

2.5.11.4.1 October 11, 2010 Constant Rate Pumping Test – MW-11D

A Constant Rate Pumping Test was completed on October 11, 2010. MW-11D was utilized as the pumping well. The following setup information is provided. With the exception of static water level and maximum measured drawdown, all measurements were referenced to grade.

- Total Depth of MW-11D: 128.0'
- Screened Interval: 108' – 128'
- Water Bearing Zone: 120' – 121'
- Pump Depth: 125'
- Transducer Depth: 120'
- Static Water Level: 72.80'
- Maximum Available Drawdown: 47.2'
- Maximum Measured Drawdown: 27.48'
- Average Discharge Rate (Q): 2.5 gpm
- Duration of Test: 8 hours (0830 – 1630)
- Duration of Recovery Data Collection: 30 Minutes (94% Recovery)
- Weather Conditions: Cloudy & Mild, Rain @ 1700
- Precipitation Data: October 7 – October 11, 2010: 0.02"

The three (3) shallow monitoring wells, three (3) deep monitoring wells and two (2) domestic wells were utilized as observation wells during the completion of the test. These wells utilized pressure transducers to collect groundwater level data. Data from the remaining shallow and deep groundwater monitoring wells were collected by hand. No influence from the pumping was observed in the wells monitored by hand. The following wells were monitored with transducers:

- Shallow Monitoring Wells: MW-4s, MW-10s, MW-11s
- Deep Monitoring Wells: MW-2D, MW-10D, MW-12D
- Domestic Wells: Fryzel well (shared with Bright), Strong well

Pennsylvania Tectonics reviewed the groundwater level vs. time data to determine if any of the observation wells were influenced by the pumping of MW-11D. Refer to Appendix V-6 for graphics associated with the October 11, 2010 Pumping Test calculations. A summary of total drawdown is included in the following table:

Table 2-18
Summary of Total Drawdown
Constant Rate Pumping Test (MW-11D) – October 11, 2010

Well Number	Distance to Pumping Well	Total Drawdown
MW-4s	184' – Northwest	No Drawdown
MW-10s	100' – South-Southwest	No Drawdown
MW-11s	Adjacent	No Drawdown
MW-2D	204' – Northwest	0.05 feet
MW-10D	96' – South-Southwest	0.83 feet
MW-12D	192' – Southeast	0.95 feet
Fryzel Well	272' – Northwest	0.80 feet
Strong Well	272' – Northwest	No Drawdown

A qualitative review of the groundwater level vs. time data reveals the following:

- No drawdown was experienced in the three (3) shallow monitoring wells. Water levels in each well actually rose slightly during the test (MW-4s – 0.01', MW-10s – 0.06', MW-11s – 0.02'). These water level changes are probably due to changes in atmospheric conditions during the duration of the test.
- Minimal drawdown was experienced in MW-2D (0.05 feet). This drawdown cannot be directly attributed to the pumping of MW-11D. Sharp fluctuations in the depth to groundwater suggest this well was influenced via regional pumping.
- Minimal and inconsistent changes in groundwater levels in MW-10D and MW-12D are not attributed to the pumping of MW-11D. A review of background data from these wells indicates MW-10D and MW-12D are influenced by regional pumping activities.
- The water level fluctuations observed in the Fryzel well are attributed to the pumping of this well or the wells in the vicinity of the well. No other distinct trends are identified.
- With the exception of two (2) distinct regional pumping influences, the Strong well was not influenced during the pumping test.

Based on the questionable groundwater level vs. time data generated from the observation wells, Pennsylvania Tectonics did not utilize this data for the determination of aquifer parameters. Since no distance – drawdown data was generated, Storativity could not be calculated. Refer to Appendix V-6 for Transmissivity, Hydraulic Conductivity and Storativity calculations. A summary of the calculated aquifer parameters are included in Table 2-19, as follows:

Table 2-19
Summary of Aquifer Parameters
Constant Rate Pumping Test (MW-11D) – October 11, 2010

Well Number	Transmissivity (Drawdown)	Transmissivity (Recovery)	Hydraulic Conductivity	Storativity
MW-11D	57.89 gpd / ft	35.2 gpd / ft	2.44 X 10 ⁻⁴ cm/sec	Not Calculated

2.5.11.4.2 May 20, 2016 Constant Rate Pumping Test – MW-2s

A Constant Rate Pumping Test was completed on May 20, 2016. MW-2s was utilized as the pumping well. The following setup information is provided. With the exception of static water level, water bearing zone and maximum measured drawdown, all measurements were referenced to grade.

- Total Depth of MW-2s: 30.0'
- Screened Interval: 10.0' – 30.0'
- Water Bearing Zone: 13.40' – 29.60'
- Pump Depth: 27.0'
- Transducer Depth: 26.0'
- Static Water Level: 13.40'
- Maximum Available Drawdown: 12.60'
- Maximum Measured Drawdown: 4.55'
- Average Discharge Rate (Q): 2.25 gpm
- Duration of Test: 8 hours (0800 – 1600)
- Duration of Recovery Data Collection: 4 hours (77% Recovery)
- Weather Conditions: Sunny & Mild
- Precipitation Data: No precipitation

The ten (10) shallow monitoring wells and one (1) deep monitoring well were utilized as observation wells during the completion of the test. The following wells were monitored with transducers:

- Shallow Monitoring Wells: MW-2s, MW-4s, MW-11s
- Deep Monitoring Wells: MW-7D

Pennsylvania Tectonics reviewed the groundwater level vs. time data to determine if any of the observation wells were influenced by the pumping of MW-2s. Refer to Appendix V-7 graphics associated with the May 20, 2016 Pumping Test calculations. A summary of total drawdown is included in the following table:

Table 2-20
Summary of Total Drawdown
Constant Rate Pumping Test (MW-2s) – May 20, 2016

Well Number	Distance to Pumping Well	Total Drawdown
MW-1s	121.4' – North	0.94'
MW-3s	28.9' – Southeast	1.43'
MW-4s	58.1' – East	1.18'
MW-5s	122.7' – Northeast	0.92'
MW-6s	80.3' – Northwest	0.21'
MW-7s	106.8' – Southwest	0.89'
MW-8s	386.6' – Northwest	0.07'
MW-9s	249.9' – Southwest	0.48'
MW-10s	185.1' – Southeast	0.41'
MW-11s	226.1' – Southeast	0.38'
MW-7D	99.0' – Southwest	0.92'

A qualitative review of the groundwater level vs. time data reveals the following:

- Significant drawdown was observed MW-1s, MW-3s, MW-4s, MW-5s, MW-7s, MW-11s and MW-7D. In each instance, the water level in these monitoring wells fell while MW-2s was being pumped and rose once pumping stopped.
- The drawdown observed in MW-6s, MW-8s, MW-9s and MW-10s is attributed to regional pumping activities of the bedrock aquifer and not the pumping at MW-2s as these monitoring wells did not recover once pumping stopped at MW-2s.
- MW-7D was not utilized to calculate the shallow aquifer parameters as this well was installed to monitor the bedrock aquifer.

Pennsylvania Tectonics utilized the drawdown data from the pumping well (MW-2s), MW-1s, MW-3s, MW-4s, MW-5s, MW-7s, MW-11s and MW-7D to calculate the aquifer parameters associated with the shallow aquifer beneath the subject property. Refer to Appendix V-7 for the Hydraulic Conductivity, Transmissivity and Storativity calculations. A summary of the calculated aquifer parameters are included in Table 2-21, as follows:

Table 2-21
Summary of Aquifer Parameters
Constant Rate Pumping Test (MW-2s) – May 20, 2016

Well Number	Transmissivity (Drawdown)	Transmissivity (Recovery)	Hydraulic Conductivity	Storativity
MW-2s	407.41 gpd/ft	530.36 gpd/ft	1.07×10^{-3} cm/sec	1.12×10^{-4}

2.5.11.4.3 May 25, 2016 Constant Rate Pumping Test – MW-11D

A Constant Rate Pumping Test was completed on May 25, 2016. MW-11D was utilized as the pumping well. The following setup information is provided. With the exception of static water level and maximum measured drawdown, all measurements were referenced to grade.

- Total Depth of MW-11D: 128.0'
- Screened Interval: 108' – 128'
- Water Bearing Zone: 120' – 121'
- Pump Depth: 125'
- Transducer Depth: 120'
- Static Water Level: 73.13'
- Maximum Available Drawdown: 47.2'
- Maximum Measured Drawdown: 25.05'
- Average Discharge Rate (Q): 2.85 gpm
- Duration of Test: 8 hours (0815 – 1615)
- Duration of Recovery Data Collection: 7 Hours (99% Recovery)
- Weather Conditions: Cloudy & Mild, Rain @ 1700
- Precipitation Data: No precipitation

The three (3) shallow monitoring wells and four (4) deep monitoring wells were utilized as observation wells during the completion of the test. These wells utilized pressure transducers to collect groundwater level data. Data from the remaining shallow and deep groundwater monitoring wells were collected by hand. No influence

from the pumping was observed in the wells monitored by hand. The following wells were monitored with transducers:

- Shallow Monitoring Wells: MW-2s, MW-4s and MW-11s
- Deep Monitoring Wells: MW-2D, MW-7D, MW-10D and MW-12D

Pennsylvania Tectonics reviewed the groundwater level vs. time data to determine if any of the observation wells were influenced by the pumping of MW-11D. Refer to Appendix V-8 of this report for graphics associated with the May 25, 2016 Pumping Test calculations. A summary of total drawdown is included in the following table:

Table 2-22
Summary of Total Drawdown
Constant Rate Pumping Test (MW-11D) – May 25, 2016

Well Number	Distance to Pumping Well	Total Drawdown
MW-2s	231' – Northwest	No Drawdown
MW-4s	100' – South-Southwest	No Drawdown
MW-11s	Adjacent	No Drawdown
MW-2D	204' – Northwest	0.02 feet
MW-10D	96' – South-Southwest	0.73 feet
MW-12D	192' – Southeast	1.14 feet

A qualitative review of the groundwater level vs. time data reveals the following:

- No drawdown was experienced in the three (3) shallow monitoring wells. The shallow monitoring wells remained stable during the pump test at MW-11D.
- Minimal drawdown was experienced in MW-2D (0.02 feet). This drawdown cannot be directly attributed to the pumping of MW-11D. The drawdown observed in MW-2D is attributed to changes in atmospheric conditions.
- The drawdown in MW-10D is not attributed to the pumping of MW-11D. This monitoring well continued to drawdown after pumping at MW-11D. This drawdown is attributed to regional pumping influence.
- The drawdown observed in MW-12D is attributed to pumping at MW-11D. MW-12D experienced drawdown while MW-11D was being pumped and recharged once pumping stopped.

Pennsylvania Tectonics utilized the drawdown data from the pumping well (MW-11D) and MW-12D to calculate the aquifer parameters associated with the bedrock aquifer beneath the subject property. Refer to Appendix V-8 for the Transmissivity and Hydraulic Conductivity calculations. Storativity could not be calculated as only one (1) observation well (MW-12D) experienced measurable drawdown. A summary of the calculated aquifer parameters are included in Table 2-23, as follows:

Table 2-23
Summary of Aquifer Parameters
Constant Rate Pumping Test (MW-11D) – May 25, 2016

Well Number	Transmissivity (Drawdown)	Transmissivity (Recovery)	Hydraulic Conductivity	Storativity
MW-11D	63.71 gpd/ft	42.99 gpd/ft	2.79 X 10 ⁻⁴ cm/sec	Not Calculated

2.6 Surface Water Sampling Activities

The results of the site characterization activities indicate the closest surface water feature is an unnamed tributary to Hull Creek, which is located in the northeastern portion of the subject property. The unnamed tributary flows in a southeasterly direction to its confluence with Hull Creek. As part of the site characterization activities Pennsylvania Tectonics collected eight (8) rounds of surface water samples from the unnamed tributary and drainage culverts that feed the tributary. Refer to Appendix A for a Surface Water Sample Location Map (Figure 12) depicting the surface water sampling locations.

With the exception of the June 13, 2008 surface water sampling event, the surface water samples were analyzed for the Unleaded Gasoline Parameters only as specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems. A table summarizing the surface water sampling events is included in Table 2-24, as follows;

Table 2-24
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Surface Water Sampling Events

Sample Date	Locations Sampled	Analysis
June 13, 2008	SW-1 - SW-3	Leaded / Unleaded Gasoline
April 6, 2009	SW-1 - SW-3	Unleaded Gasoline
March 8, 2010	SW-1 - SW-3	Unleaded Gasoline
August 2, 2010	Dry	--
September 27, 2011	SW-1 - SW-3	Unleaded Gasoline
November 9, 2011	SW-1 - SW-3	Unleaded Gasoline
June 12, 2012	SW-1 - SW-6	Unleaded Gasoline
October 2, 2013	Dry	--
February 3, 2014	Dry	--
June 2, 2014	SW-1 – SW-3, SW-5 & SW-6	Unleaded Gasoline
November 20, 2014	Dry	--
October 6, 2015	Dry	--
March 30, 2016	SW-1 – SW-3 & SW-6	Unleaded Gasoline
June 22, 2016	Dry	--

2.7 Private Well Sampling

Between May 2007 and August 2015, Pennsylvania Tectonics collected seventy-four (74) initial drinking water samples and twenty-nine (29) confirmatory drinking water samples from private production wells located in the vicinity of the subject property. Refer to Attachment A for a Private Production Well Location Map (Figure 13) depicting the location of the private production wells. The scope of work associated with these activities included the purging the wells by running the cold water for a minimum of fifteen (15) minutes. One (1)

drinking water sample was then collected at a point closest to the well and prior to any water softeners or filtration systems.

The one hundred and three (103) drinking water samples were analyzed for the Unleaded Gasoline Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems via EPA Method 524.2. A summary of the private well sampling activities is included as Table 2-25, as follows:

Table 2-25
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Private Well Sampling Activities

Sample Date	Sample Type	# Samples Collected
May 2007	Initial	21
June 2007	Initial	6
January 2008	Initial	2
January 2008	Confirmatory	23
February 2008	Confirmatory	2
March 2008	Initial	8
March 2008	Confirmatory	1
April 2008	Initial	2
May 2008	Initial	7
May 2008	Confirmatory	2
June 2008	Initial	6
July 2008	Initial	18
September 2008	Confirmatory	1
July 2009	Initial	1
January 2011	Initial	1
August 2011	Initial	1
August 2015	Initial	1

3. ANALYTICAL RESULTS – SITE CHARACTERIZATION ACTIVITIES

3.1 General

The analytical results compiled as part of the site characterization activities were reviewed by Pennsylvania Tectonics. The compound concentrations detected were compared to the standards included in Pennsylvania's "Land Recycling and Environmental Remediation Standards Act" (Act 2) of July, 1995, as amended. Refer to Appendix W for copies of the soil analytical data sheets, soil analytical data summary tables and cross sections. A Cross Section Identification Map is included in Appendix A as Figure 10B. Refer to Appendix X for copies of the groundwater analytical data sheets and groundwater analytical data summary tables. Refer to Appendix Y for copies of the surface water analytical data sheets and data summary tables. Groundwater isopleth maps are included in Appendix Z.

3.2 Determination of Cleanup Standards

For the purpose of comparing the analytical results obtained as part of the soil and groundwater sampling program to a cleanup standard, Pennsylvania Tectonics reviewed the three options provided in the PADEP's Act 2 program, as described in 25 Pa. Code Chapter 250 and PADEP's Act 2 Technical Guidance Manual. These options include Background, Statewide Health and Site Specific cleanup standards. Based on the nature of the project and data available, the Statewide Health Standards were utilized as the cleanup criteria to be applied to this site. These standards are referred to as the medium specific concentrations (MSCs) that must be achieved to demonstrate attainment of the Statewide Health Standard (SHS) for each contaminant compound of concern.

In order to determine the specific MSC for each compound of concern, Pennsylvania Tectonics followed the outline for determining soil and groundwater MSCs included in Chapter II of the TGM. Specifically, Pennsylvania Tectonics followed Figure II-5, "Flowchart for Selecting Statewide Health Standard MSCs for Groundwater and Soil". Assumptions made in following this flowchart include: 1) the soil buffer does not apply in any case; and, 2) equivalency does not apply. The Residential, Used Aquifer (TDS < 2,500) scenario was utilized due to the use of the surrounding properties for residential purposes. The Used Aquifer scenario was utilized due to the use of private wells in the area to meet the demand for potable water.

3.3 Comparison of Soil Data to Statewide Health Standard MSCs

3.3.1 General

A total of fifty (57) soil samples were collected from the test borings completed at the subject property as part of this investigation. To complete the horizontal and vertical delineation of the site soils, samples were collected as follows:

- **Vadose Zone Samples:** A total of nineteen (19) soil samples were collected from the Vadose Zone, which includes the permanently unsaturated zone and the capillary fringe. The MSCs associated with unsaturated conditions are the applicable standards to be used for comparison.
- **Zone of Groundwater Saturation – Smear Zone:** A total of thirty-four (34) soil samples were collected from the Smear Zone. The PADEP defines the Zone of Groundwater Saturation as the soil that is below the seasonal high water level. Pennsylvania Tectonics further bisected the Zone of Groundwater Saturation into the Smear Zone and the Permanently Saturated Zone. The Smear Zone is not saturated at all times and is subject to seasonal fluctuations in the groundwater table. The determination of the vertical limits of the Smear Zone was made via the review of test boring logs compiled during the soil sampling activities. The MSCs associated

with saturated conditions are the applicable standards to be used for comparison. However, contamination present in the Smear Zone is considered a groundwater issue and not a soil issue.

- **Permanently Saturated Zone:** Four (4) soil samples were collected from the Permanently Saturated Zone. Defined as the soil that is saturated on a continuous basis, contamination present in the Permanently Saturated Zone is considered a groundwater issue and not a soil issue. Therefore, no soil MSCs apply.

3.3.2 Discussion on the Vadose Zone Results

A total of nineteen (19) soil samples were collected from the Vadose Zone as part of this investigation. Petroleum-related contamination, at concentrations exceeding the applicable Statewide Health Standard MSCs, was detected in ten (10) soil samples. A summary of the exceedances is included in Table 3-1, as follows. Refer to Appendix A for a Soil Contamination Map (Figure 10C) depicting the distribution of contamination in the Vadose Zone.

Table 3-1
Lewis Brothers Garage Property
Soil Sample Analytical Data (mg/kg)
Summary of Exceedances – Vadose Zone

Sample #	Depth	Parameter	Concentration	Act 2 MSC**
TB-1A	3.0' – 5.5'	1,2,4-TMB	38.4	8.4
TB-2A	6.5' – 8.0'	Benzene	13.8	0.5
		1,2,4-TMB	47.6	8.4
TB-4A*	2.0' – 3.5'	Benzene	173.0	0.5
		Ethylbenzene	180.0	70.0
		Toluene	838.0	100.0
		Naphthalene	42.3	25.0
		Total Xylenes	1,260.0	1,000.0
		1,3,5-TMB	122.0	74.0
		1,2,4-TMB	466.0	8.4
TB-27A	4.0' – 5.0'	Benzene	0.664	0.5
		1,2,4-TMB	49.4	8.4
		1,2-EDB	<0.466	0.005
TB-28A	6.0' – 7.0'	1,2,4-TMB	9.05	8.4
TB-30A	12.0' – 13.0'	Benzene	3.11	0.5
		1,2,4-TMB	29.7	8.4
		1,2-EDB	<0.0454	0.005

Table 3-1 (cont.)
Lewis Brothers Garage Property
Soil Sample Analytical Data (mg/kg)
Summary of Exceedances – Vadose Zone

Sample #	Depth	Parameter	Concentration	Act 2 MSC**
TB-31A	7.0' – 8.0'	1,2,-EDB	<0.0456	0.005
TB-32A	7.0' – 8.0'	1,2,4-TMB	15.8	8.4
TB-33A	6.0' – 7.0'	Benzene	0.668	0.5
		1,2,4-TMB	18.3	8.4
		1,2-EDB	<0.241	0.005
TB-34A	9.0' – 10.0'	1,2,4-TMB	14.0	8.4
		1,2,-EDB	<0.0507	0.005

(*) denotes soils associated with these samples were subsequently excavated

(**) denotes all exceedances are associated with an unsaturated soil condition

3.3.3 Discussion on the Smear Zone Results

A total of thirty-four (34) soil samples were collected from the Smear Zone as part of this investigation. Petroleum-related contamination, in excess of current standards, was detected in eighteen (18) of the soil samples. A summary of the exceedances is included in Table 3-2, as follows. Refer to Appendix A for a Soil Contamination Map (Figure 10D) depicting the distribution of contamination in the Smear Zone.

Table 3-2
Lewis Brothers Garage Property
Soil Sample Analytical Data (mg/kg)
Summary of Exceedances – Smear Zone

Sample #	Depth	Parameter	Concentration	Act 2 MSC*
TB-1B	10.0' – 12.0'	1,2,4-TMB	33.8	1.5
TB-3A	11.0' – 12.0'	Benzene	9.08	0.5
		Naphthalene	13.2	10.0
		1,2,4-TMB	95.8	1.5
TB-6A	8.0' – 10.0'	Benzene	2.42	0.5
		1,2,4-TMB	13.9	1.5
TB-7A	12.5' – 13.5'	Benzene	8.86	0.5
		1,2,4-TMB	46.7	1.5

**Table 3-2 (Cont.)
Lewis Brothers Garage Property
Soil Sample Analytical Data (mg/kg)
Summary of Exceedances – Smear Zone**

Sample #	Depth	Parameter	Concentration	Act 2 MSC*
TB-8A	8.0' – 9.0'	Benzene	20.5	0.5
		1,3,5-TMB	13.2	1.3
		1,2,4-TMB	43.3	1.5
TB-9A	9.5' – 10.5'	1,2,4-TMB	5.17	1.5
TB-14A	9.5' – 11.0'	Benzene	0.853	0.5
TB-18A	6.5' – 8.0'	1,2,4-TMB	5.75	1.5
TB-18B	10.0' – 11.5'	Benzene	0.694	0.5
TB-23B	12.5' – 13.3'	Benzene	4.76	0.5
		1,2,4-TMB	61.6	1.5
TB-30B	15.0' – 16.0'	Benzene	1.9	0.5
		1,2,4-TMB	5.29	0.5
		1,2-EDB	0.0302	0.005
TB-31B	13.5' – 14.5'	Benzene	50.1	0.5
		Ethylbenzene	156.0	70.0
		Toluene	256.0	100.0
		Naphthalene	72.0	10.0
		1,3,5-TMB	121.0	42.0
		1,2,4-TMB	433.0	1.5
		1,2-EDB	<0.429	0.005
TB-32B	15.0' – 16.0'	1,2-EDB	<0.0439	0.005
TB-33B	16.0' – 17.0'	Benzene	3.6	0.5
		1,2,4-TMB	5.89	1.5
		1,2-EDB	<0.216	0.005
TB-34B	19.0' – 20.0'	Benzene	2.55	0.5
TB-36A	6.5' – 7.5'	1,2-EDB	<0.0435	0.005
TB-36B	11.5' – 12.5'	1,2,4-TMB	34.7	1.5
		1,2-EDB	<0.0428	0.005
TB-38A	9.0' – 10.0'	Benzene	0.625	0.5

3.3.4 Discussion on the Permanently Saturated Zone Results

A total of four (4) soil samples were collected from the Permanently Saturated Zone as part of this investigation. As indicated above, since this contamination is considered a groundwater contamination issue, no additional investigation / remediation is required. Therefore, no further discussion is provided.

3.4 Comparison of Groundwater Data to Applicable Statewide Health Standard MSCs

A total of seventeen (17) groundwater sampling events (full and partial) have been conducted at the subject property as part of this investigation. Summary tables including the historical groundwater data and exceedances are included in Appendix X of this report. Groundwater isopleth maps, depicting the distribution of the contamination, are included in Appendix Z. A review of the data collected indicates groundwater contamination, in excess of applicable cleanup standards, has been documented in both the unconsolidated (i.e. shallow) and bedrock (i.e. deep) aquifers. These exceedances are highlighted in Table X-1 located in Appendix X.

3.5 Discussion of Surface Water Analytical Data

Between June 2008 and June 2016, Pennsylvania Tectonics collected eight (8) rounds of surface water samples from the unnamed tributary to Hull Creek and drainage culverts that feed the tributary. Refer to Appendix A for a Surface Water Sample Location Map (Figure 12) depicting the surface water sample locations. The results of the surface water sampling are summarized in Table Y-1 in Appendix Y. As shown in the table, all compound concentrations were below the respective method detection limits (MDLs) established by the laboratory. The reported MDLs are below the respective standards outlined in 25 Pennsylvania Code Chapter 16.

Pennsylvania Code Title 25 §250.309 and §250.406 regulate the diffuse groundwater infiltration to surface water. The Act 2 Technical Guidance Manual (TGM) Section IV (A)(3), requires that impacts to surface water from diffuse flow of contaminated groundwater must be evaluated. However, a review of groundwater elevation and stream elevation data suggest the unnamed tributary to Hull Creek is a losing stream in the area of the shallow groundwater plume. Flow into the stream is regulated from the pond and forested wetlands area located to the north of the subject property. This stream flows only during and immediately after precipitation events. Given the absence of negative impacts to the tributary, as documented via the completion of surface water sampling, no additional evaluation will be completed.

3.6 Overview of Field Data

3.6.1 General

As part of the routine groundwater monitoring activities at the subject property, Pennsylvania Tectonics collected data, which included Dissolved Oxygen (DO), Oxidation-Reduction Potential (ORP), Manganese (Mn⁺²), Ferrous Iron (Fe⁺²), Nitrate and Sulfate. Dissolved Oxygen and Oxidation-Reduction Potential was collected from an inline flow cell during low-flow sampling activities. Manganese, Ferrous Iron, Nitrate and Sulfate data was field analyzed utilizing a Hach® DR-890 Colorimeter. These data were collected in general accordance with ASTM E1943 - 98(2004) Standard Guide for Remediation of Ground Water by Natural Attenuation at Petroleum Release Sites, to determine if the contaminant plume is shrinking, expanding, or has reached steady-state conditions as a result of natural attenuation processes. More specifically for the purpose of this Final SCR, these data are interpreted to determine if natural biodegradation processes are occurring at the subject property. Results indicating natural biodegradation activities are occurring will be useful in determining the optimal remedial approach for the subject property.

3.6.2 Primary Lines of Evidence

A Primary Lines of Evidence evaluation is required to demonstrate that biodegradation is occurring at a site. The primary mechanism for reducing the mass and concentration of petroleum contaminants is biodegradation, which is the degradation of the contaminants by microorganisms. To convert (or consume) contaminants, microorganisms require the proper environmental conditions, nutrients and electron acceptors. Nutrients, which include trace levels of phosphorus, potassium, and nitrogen, are usually available within most soil and groundwater systems. The availability of electron acceptors usually controls the extent of contaminant biodegradation. Therefore, it is important to assess electron acceptor distribution and concentration in groundwater.

Microorganisms use electron acceptors (e.g., oxygen, nitrate, iron, and sulfate) to “breathe”. Biodegradation generally proceeds at a greater rate in an aerobic (oxygen-rich) environment than under anaerobic (oxygen-depleted) conditions. As long as sufficient oxygen is present, aerobic biodegradation will dominate. Once oxygen has been sufficiently consumed, anaerobic biodegradation, which relies upon electron acceptors other than oxygen to metabolize petroleum contaminants, will dominate.

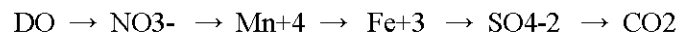
Some petroleum compounds are only slowly degradable by microorganisms, or may not be degradable at all. The chemical structure of the contaminant, the concentration and competition between contaminants, and the ability of the natural microbes to “eat” a contaminant while “breathing” various electron acceptors, control the speed and extent of degradation. For instance, benzene is most easily degraded when sufficient oxygen is present.

The primary line of evidence for remediation by natural attenuation is provided by observed reductions in plume geometry and observed reductions in concentrations of the constituents of concern at the site. The Primary Lines of Evidence evaluation involves demonstrating that the plume is stable or shrinking, measuring dissolved oxygen levels in groundwater (an aerobic geochemical indicator), and measuring physical parameters. In situations where the data does not clearly indicate a decreasing trend, a Secondary Lines of Evidence evaluation may be performed.

3.6.3 Secondary Lines of Evidence

Secondary lines of evidence for remediation by natural attenuation are provided by geochemical indicators of naturally occurring degradation and estimates of attenuation rates. A Secondary Lines of Evidence evaluation may be used to supplement the Primary Lines of Evidence to demonstrate that biodegradation is occurring. The Secondary Lines of Evidence evaluation requires the following data be collected.

In situations where DO has been consumed, anaerobic processes will dominate. In the absence, or near absence of DO, nitrate (NO₃-), manganese (Mn⁺⁴), ferric iron (Fe⁺³), sulfate (SO₄-₂) or carbon dioxide (CO₂) may serve, if available, as electron acceptors. The sequential use of electron acceptors as microorganisms consume petroleum contaminants is:



The use of a specific electron acceptor is closely related to the oxidation-reduction potential of the groundwater. The more reducing the groundwater conditions, the greater the depletion of the available electron acceptors. Source zone groundwater usually exhibits the greatest depletion of electron acceptors. Geochemical indicators monitor electron acceptors directly (e.g., DO, NO₃- and SO₄-₂) or monitor the byproduct of the metabolized electron acceptor (e.g., Mn⁺², Fe⁺², and methane).

3.6.4 Additional Optional Lines of Evidence

Additional optional lines of evidence can be provided by microbiological information and further analysis of primary and secondary lines of evidence such as through solute transport modeling or estimates of assimilative capacity. The Oxidation-Reduction Potential of groundwater is a measure of the relative tendency of a solution to accept or donate electrons. ORP is usually presented in terms of Eh values. Although not always true, a positive Eh value generally indicates that the solution is oxidizing (aerobic) while a negative value indicates that the solution is chemically reducing (anaerobic). If the ORP measurements taken outside the plume are higher than the ORP measurements in the plume, it is an indication that biodegradation may be occurring. Dissolved Oxygen and ORP readings should agree. Dissolved oxygen should be less than 1 ppm when ORP is negative.

3.6.5 Review of Site-Specific Data

A review of the site-specific data was completed. The results of this review provided significant evidence indication that biodegradation was naturally occurring at the subject property. Tables summarizing the field data are included in Appendix AA. An overview of this data is as follows:

- Shallow Aquifer Dissolved Oxygen (DO): A review of DO data indicates background DO concentrations in the shallow aquifer ranged between 3.80 mg/l (MW-8s) and 4.15 mg/l (MW-9s) in June 2016. Generally, DO concentrations above 2.0 mg/l are required for aerobic biodegradation to occur. Overall, DO concentrations within the contaminant plume are low. For example, DO in MW-11s was 0.35 mg/l in June 2016. These low concentrations within the area of the contamination indicate DO is being consumed during natural biodegradation activities.
- Shallow Aquifer Oxidation-Reduction Potential (ORP): A review of ORP data for the shallow aquifer indicates positive ORP values are present outside the contaminant plume in areas of oxidation (aerobic conditions). ORP values are negative inside the plume, indicating chemically reducing conditions (anaerobic conditions) are prevalent. Dissolved oxygen concentrations are generally less than 1 ppm where ORP is negative. This relationship indicates biodegradation is occurring.
- Shallow Aquifer Ferrous Iron (Fe+2): A review of data for the shallow aquifer indicates Fe+2 concentrations are higher inside the contaminant plume (i.e. MW-11s) than outside. These data suggest that Fe+3 is being used as an electron acceptor during anaerobic biodegradation.
- Shallow Aquifer Sulfate: A review of data for the shallow aquifer indicates Sulfate concentrations are higher outside the contaminant plume than inside. These data suggest that Sulfate is being used as an electron acceptor during anaerobic biodegradation. Overall, the Sulfate data is not a good indicator of naturally occurring biodegradation.
- Shallow Aquifer Nitrate: At petroleum contaminated sites, Nitrate concentrations are generally higher outside the contaminant plume than inside. Such data suggest that Nitrate is being used as an electron acceptor during anaerobic biodegradation. The Nitrate data is not as profound as the Fe+2 data or the Sulfate data and is inconclusive at the subject property.
- Shallow Aquifer Manganese (Mn+2): A review of data for the shallow aquifer indicates Mn+2 concentrations are much higher inside the contaminant plume than outside. These data suggest that Mn+4 is being used as a terminal electron acceptor during anaerobic biodegradation, resulting in increased Mn+2.

- Bedrock Aquifer Dissolved Oxygen (DO): A review of DO data indicates background DO concentrations in the bedrock aquifer ranged between 0.91 mg/l (MW-8D) and 0.44 mg/l (MW-9D) in June 2016. Generally, DO concentrations above 2.0 mg/l are required for aerobic biodegradation to occur. In-situ data collected from monitoring wells purged low flow indicate background DO concentrations are less than 2.0 ug/l across the study area. These levels are not favorable to aerobic conditions.
- Bedrock Aquifer Oxidation-Reduction Potential (ORP): A review of ORP data for the bedrock aquifer indicates positive ORP values are present outside the contaminant plume in areas of oxidation (aerobic conditions). ORP values are negative inside the plume, indicating chemically reducing conditions (anaerobic conditions) are prevalent. Dissolved oxygen concentrations are generally less than 1 ppm where ORP is negative. This relationship is not very strong in the bedrock aquifer.
- Bedrock Aquifer Ferrous Iron (Fe+2): At petroleum contaminated sites, Fe+2 concentrations are higher inside the contaminant plume than outside. Such data suggest that Fe+3 is being used as an electron acceptor during anaerobic biodegradation. This relationship is not very strong in the bedrock aquifer.
- Bedrock Aquifer Sulfate: At petroleum contaminated sites, Sulfate concentrations are higher outside the contaminant plume than inside. These data suggest that Sulfate is being used as an electron acceptor during anaerobic biodegradation. Overall, the Sulfate data is not a good indicator of naturally occurring biodegradation. This relationship is not very strong in the bedrock aquifer.
- Bedrock Aquifer Nitrate: At petroleum contaminated sites, Nitrate concentrations are generally higher outside the contaminant plume than inside. These data suggest that Nitrate is being used as an electron acceptor during anaerobic biodegradation. The Nitrate data is not as profound as the Fe+2 data or the Sulfate data. This relationship is not very strong in the bedrock aquifer.
- Bedrock Aquifer Manganese (Mn+2): At petroleum contaminated sites, Mn+2 concentrations are higher inside the contaminant plume than outside. These data suggest that MN+4 is being used as a terminal electron acceptor during anaerobic biodegradation, resulting in increased Mn+2. This relationship is not very strong in the bedrock aquifer.

A review of site-specific data indicates that biodegradation is naturally occurring in the shallow aquifer at the subject property. Aerobic conditions prevail until the resultant DO levels are insufficient to promote degradation, at which point anaerobic biodegradation takes over. The conclusion that biodegradation is naturally occurring in the shallow aquifer will be utilized to evaluate the optimal remedial approach for the site groundwater. The Dissolved Oxygen data collected from the bedrock aquifer suggest this aquifer is approaching anaerobic conditions. Furthermore, the other lines of evidence do not suggest natural biodegradation is occurring in the bedrock aquifer.

3.7 Comparison of Drinking Water Data to Applicable Statewide Health Standard MSCs

Between May 2007 and August 2015, Pennsylvania Tectonics collected drinking water samples from seventy-four (74) private production wells located in the vicinity of the subject property. A total of seventy-four (74) initial drinking water samples and twenty-nine (29) confirmatory drinking water samples were collected from the seventy-four (74) private wells. A table summarizing the analytical data and the laboratory analytical data sheets associated with the one hundred and three (103) drinking water samples are included in Appendix BB of this

report. Refer to Attachment A for a Private Production Well Location Map (Figure 13) depicting the location of the private production wells.

Compound concentrations above the laboratory MDLs were detected in thirty (30) of the one hundred and three (103) samples collected. These detections were limited to twenty-seven (27) individual wells. The detection of petroleum-related contamination prompted the installation of twenty-seven (27) Point of Entry Treatment (POET) systems. However, only two (2) individual wells, Jarrow and Crossley, expressed compound concentrations in excess of the applicable Statewide Health Standards. An in-depth discussion of the POET system installation and monitoring activities is included in Section 7.4 of this report.

4. VAPOR INTRUSION EVALUATION

4.1 General

The presence of soil and groundwater contamination at the subject property may result in the degradation of indoor air quality in nearby buildings. In accordance with the PADEP's "Land Recycling Program Technical Guidance Manual – Section IV.A.4 – Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard" (Document Number 253-0300-100), an evaluation of this potential impact must be completed. This comparison is a stepped process, in that the guidance may allow for the comparison of existing soil and groundwater data (as applicable) to default values to determine if additional investigation (e.g. soil-gas sampling) is required. These investigative activities must be completed if an inhabited building is located within 100 feet of a source of contamination. The Lewis Brothers garage structure and the Strong Residence (RR#1, Box 58) are located within 100 feet of the soil contaminant plume. Furthermore, various residential properties are located within 100 feet of the groundwater plume.

Subsequent to the completion of initial site characterization activities, Pennsylvania Tectonics reviewed the soil and groundwater data generated and applied the decision matrices included in the *Land Recycling Program Technical Guidance Manual – Section IV.A.4, Vapor Intrusion into Buildings from Soil and Groundwater*. Factors such as the presence of Separate Phase Hydrocarbons (SPH) and/or the location of preferential pathways were considered. No preferential pathways were identified. However, SPH has been identified in MW-2s and MW-3s (see Section 7.3).

Due to the presence of SPL, soil-vapor sampling, indoor air sampling, a site-specific analysis and/or mitigation was required. As part of this vapor intrusion evaluation, Pennsylvania Tectonics completed a comparison of all of the existing soil and groundwater data to the USEPA-PA Defaults for Residential Volatilization to Indoor Air Screen. This comparison identified the presence of exceedances of the USEPA-PA Default Values for soils and groundwater. The results of these comparisons are included in Section 4.2 and Section 4.3, respectively. The results of the soil-vapor sampling activities are included in Section 4.4.

4.2 Soil Analytical Data Evaluation

A total of fifty-seven (57) soil samples were collected from test borings completed at the subject property. Twelve (12) additional soil samples were collected during interim remedial activities that included contaminated soil excavation and disposal activities. Positive concentrations of volatile organic compounds were detected as a result of these sampling activities. These concentrations were compared to the USEPA-PA Default Values for Residential Scenarios, due the close proximity of residential structures to the soil contamination. A table comparing of all soil data to the USEPA-PA Default Values is included as Table CC-1 in Appendix CC. The comparison of the soil data to the USEPA-PA Default Values yielded the following:

- Concentrations exceeding the USEPA-PA Default Values were detected in seventeen (17) of the thirty-one (31) soil samples collected from the Vadose Zone and in fifteen (15) of the thirty-four (34) soil samples collected from the Smear Zone. Contamination in the Vadose Zone and the Smear Zone has the potential to migrate through the soil column impacting indoor air.
- Concentrations exceeding the USEPA-PA Default Values were detected in the three (3) soil samples collected from the Permanently Saturated Zone. However, these exceedances are considered a groundwater issue.

4.3 Groundwater Analytical Data Evaluation

Between April 2008 and April 2016, Pennsylvania Tectonics completed sixteen (16) groundwater sampling events (full and partial) at the subject property. Compound concentrations above the laboratory detection limits were detected as a result of these sampling activities. These concentrations were compared to the USEPA-PA Default Values for Residential Scenarios, due to the close proximity of residential structures to the contaminant plume. The comparison of the groundwater data to the Default Values indicates Benzene and 1,2,4-TMB concentrations exceeding the USEPA-PA Default Values have been documented in MW-2s and MW-3s. The remaining compound concentrations were below the respective USEPA-PA Default Values. A table comparing the groundwater data to the USEPA-PA Default Values is included as Table DD-1 in Appendix DD. Based on these results, a potentially complete groundwater-vapor pathway exists at the subject property and the nearby Strong Residence. As indicated in Section 4.4, soil-vapor sampling has confirmed that a potentially complete soil-vapor pathway is present at the Jones / Former Jarrow residence.

4.4 Soil-Vapor Sampling Activities

4.4.1 General

The scope of work associated with the completion of the soil-vapor sampling activities included the installation of ten (10) vapor monitoring points (herein designated "VP") and the completion of five (5) rounds of soil vapor monitoring (full or partial). Refer to Appendix EE for copies of the test boring logs and construction details associated with the installation of VP-1 – VP-6.

4.4.2 Vapor Point Installation Activities

Four (4) vapor monitoring points (VP-1 – VP-4) were installed on June 12, 2008 under the supervision of Mr. Martin Gilgallon, P.G. of Pennsylvania Tectonics. Geoprobe® services were provided by Eichelbergers, Incorporated of Mechanicsburg, Pennsylvania. The following activities were completed:

- The four (4) vapor monitoring points were designated VP-1, VP-2, VP-3 and VP-4. The locations of the vapor monitoring points were designed so as to obtain maximum coverage of the Lewis Brothers Garage Property, while being protective of the surrounding residential properties. Refer to Attachment A for a Vapor Point Location Map (Figure 14) depicting the locations of the four (4) vapor monitoring points.
- The vapor monitoring points were installed via direct push methods. Each borehole was advanced using steel rods with a detachable, one-inch diameter tip.
- The four (4) vapor monitoring points were completed to various depths in response to subsurface conditions, primarily the presence of high moisture content in the soil. The following information is provided:
 - VP-1 was completed to a depth of 6.0 feet below grade. The screened interval is 6.0' – 5.5'.
 - VP-2 was completed to a depth of 6.0 feet below grade. The screened interval is 6.0' – 5.5'.
 - VP-3 was completed to a depth of 3.0 feet below grade due to the presence of moisture at depth. The screened interval is 3.0' – 2.5'.

- VP-4 was completed to a depth of 6.0 feet below grade. The screened interval is 6.0' – 5.5'.
- A sand pack was placed around the vapor implant to an approximate height of 0.5 feet above the top of the implant (i.e. a one-foot sand pack). The remainder of the borehole was backfilled with powdered bentonite, which was hydrated during the construction process. Each point was completed with a flush-grade manway.

Two (2) vapor monitoring points (VP-5 – VP-6) were installed on May 28, 2015 under the supervision of Mr. Kevin Cucura of Pennsylvania Tectonics. Pennsylvania Tectonics installed the vapor monitoring points utilizing a hand operated hydraulic posthole digger. The following activities were completed:

- The two (2) vapor monitoring points were designated VP-5 and VP-6. The locations of the vapor monitoring points were designed to be protective of the surrounding residential properties (i.e. the Jones / Former Jarrow and Pascavage residences). Refer to Attachment A for a Vapor Point Location Map (Figure 14) depicting the locations of the two (2) vapor monitoring points.
- Each borehole was advanced using steel augers creating a 3.0" diameter borehole.
- The two (2) vapor monitoring points were completed to various depths in response to subsurface conditions, primarily the presence of shallow groundwater and subsurface basements. The following information is provided:
 - VP-5 (Jones / Former Jarrow Property) was completed to a depth of 5.0 feet below grade due the presence of shallow groundwater in a nearby monitoring well (MW10s) at 6.0' below grade. The screened interval is 5.0' – 4.5'.
 - VP-6 (Pascavage Property) was completed to a depth of 8.0 feet below grade due to the presence of a subsurface basement at the nearby Pascavage residence. The basement with the Pascavage residence was 1.97' lower than the grade elevation at VP-6. The screened interval is 8.0' – 7.5'.
- A sand pack was placed around the vapor implant to an approximate height of 0.5 feet above the top of the implant (i.e. a one-foot sand pack). The remainder of the borehole was backfilled with powdered bentonite, which was hydrated during the construction process. Each point was completed with a flush-grade manway.
- **Note:** These vapor point installation activities were conducted with hand operated equipment in response to access issues associated with John Young Property (former Robin Peregrin Property). Access to the Jones / Former Jarrow Property to install VP-5 with a Geoprobe® required crossing the John Young Property. Since access was being denied for a lengthy period of time, Pennsylvania Tectonics attempted to install VP-5 and VP-6 by hand to complete some project tasks while site access was being denied. As indicated below, VP-6 did not perform properly and was eventually replaced using a Geoprobe® once site access was authorized.

Four (4) vapor monitoring points (VP-1A, VP-2A, VP-4A and VP-6A) were installed on November 18, 2016 under the supervision of Mr. Kevin Cucura of Pennsylvania Tectonics. These vapor monitoring points were installed as replacements due to the inability to collect vapor samples from the initial monitoring points. Geoprobe® services were provided by Odyssey Environmental Services of Harrisburg, Pennsylvania. The following activities were completed. The following activities were completed:

- The four (4) vapor monitoring points were designated VP-1A, VP-2A, VP-4A and VP-6A. The locations of the vapor monitoring points were in close proximity to the initial monitoring points that had since become compromised. Refer to Attachment A for a Vapor Point Location Map (Figure 14) depicting the locations of the four (4) vapor monitoring points.
- The vapor monitoring points were installed via direct push methods. Each borehole was advanced using steel rods with a detachable, two-inch diameter tip.
- The four (4) vapor monitoring points were completed to various depths in response to subsurface conditions, primarily the presence of high moisture content in the soil. The following information is provided:
 - VP-1A was completed to a depth of 6.0 feet below grade. The screened interval is 6.0' – 5.5'.
 - VP-2A was completed to a depth of 6.0 feet below grade. The screened interval is 6.0' – 5.5'.
 - VP-4A was completed to a depth of 3.0 feet below grade due to the presence of moisture at depth. The screened interval is 3.0' – 2.5'.
 - VP-6A was completed to a depth of 8.0 feet below grade. The screened interval is 8.0' – 7.5'.
- A sand pack was placed around the vapor implant to an approximate height of 0.5 feet above the top of the implant (i.e. a one-foot sand pack). The remainder of the borehole was backfilled with powdered bentonite, which was hydrated during the construction process. Each point was completed with a flush-grade manway.

4.4.3 Vapor Point Sampling Activities

Pennsylvania Tectonics completed five (5) rounds of soil-vapor sampling activities. These activities were conducted on June 21, 2008, March 22, 2009, June 3, 2015, January 29, 2016 and March 17, 2016. Mr. Martin Gilgallon, Mr. Dean Cruciani and Mr. Kevin Cucura conducted the sampling activities. The June 21, 2008 and March 23, 2009 sampling activities included the collection of samples from VP-1 through VP-4. The June 3, 2015 sampling activities included the collection of the samples from VP-1 through VP-6. The January 29, 2016 and March 17, 2016 sampling activities included the collection of samples from VP-1A, VP-2A, VP-3, VP-4A, VP-5 and VP-6A. Each sampling event included the collection of one (1) QA/QC Duplicate. In accordance with the PADEP's *"Draft Indoor Air / Soil Gas Sampling Protocol"*, the following pertinent information is provided:

- **Date & Times of Sampling:** The sampling activities were conducted on June 21, 2008, March 23, 2009, June 3, 2015, January 29, 2016 and March 17, 2016. The specific times of sampling are included on the appropriate chain-of-custody forms included with the analytical data sheets.
- **Specific Locations of Sample Points:** The June 21, 2008 and March 23, 2009 sampling activities included the collection of samples from VP-1 through VP-4. The June 3, 2015 sampling activities included the collection of the samples from VP-1 through VP-6. The January 29, 2016 and March 17, 2016 sampling activities included the collection of samples from VP-1A, VP-2A, VP-3, VP-4A, VP-5 and VP-6A.

- Documentation of Weather Conditions: Pennsylvania Tectonics documented weather conditions during the completion of the sampling activities. Refer to Appendix FF for weather-related information associated with the soil-vapor sampling events. A summary of the ambient air temperature data is as follows:
 - Temperatures during the June 21, 2008 sampling event ranged from 55°F to 81°F.
 - Temperatures during the March 23, 2009 sampling event ranged from 25°F to 37°F.
 - Temperatures during the June 3, 2015 sampling event ranged from 57°F to 72°F.
 - Temperatures during the January 29, 2016 sampling event ranged from 29°F to 35°F.
 - Temperatures during the March 22, 2016 sampling event ranged from 47°F to 57°F.

- Duration & Frequency of Sampling: A total of five (5) sampling events were conducted. The collection methods associated with the TO-15 analyses for the June 21, 2008 and March 23, 2009 sampling events included the filling of a Summa Canister utilizing a eight-hour, laboratory provided regulator. In theory, this method included the sampling of six (6) liters of air over an eight (8) hour time period. The collection methods associated with the TO-15 analyses for the June 3, 2015, January 29, 2016 and March 17, 2016 sampling events included the filling of a Summa Canister utilizing a four-hour, laboratory provided regulator. In theory, this method included the sampling of six (6) liters of air over a four (4) hour time period. In accordance with the laboratory procedures, the tests were ultimately stopped prior to the pressure gauge indicating zero (0) “Hg” of vacuum remaining. Note, the PADEP indicated that Naphthalene analyses were not required during the June 21, 2008 and March 23, 2009 sampling events.

- Equipment to be Utilized: The vapor samples collected during the June 21, 2008 and March 23, 2009 sampling events were collected utilizing Summa Canisters with eight-hour laboratory-supplied airflow regulators. The vapor samples collected during the June 3, 2015, January 29, 2016 and March 17, 2016 sampling events were collected utilizing Summa Canisters with four-hour laboratory-supplied airflow regulators. The pre-cleaned Summa Canisters for the June 21, 2008 sampling event were provided by Maxxam Analytics, Incorporated of Burlington, Ontario, Canada (a Pennsylvania-certified laboratory). The pre-cleaned Summa Canisters for the March 23, 2009, June 3, 2015, January 29, 2016 and March 17, 2016 sampling event were provided by ALS Environmental, Incorporated of Middletown, Pennsylvania (a Pennsylvania-certified laboratory). The regulators were connected to a length of Teflon tubing that was connected directly to the vapor implants. Dedicated tubing was utilized for each sample point.

- EPA Test methods: All vapor samples, including the QA/QC Duplicates, were analyzed for VOCs via EPA Method TO-15.

- Deviations from the Outlined Procedures: Deviations from the outlined procedures were encountered as follows:

- The initial sampling event (June 21, 2008) did not include analyses for Naphthalene, 1,2,4-TMB or 1,3,5-TMB.
 - The results of the June 3, 2015 sampling event indicated VP-1, VP-2, VP-4 and VP-6 provided insufficient volume for proper analysis. Pennsylvania Tectonics concluded these vapor may have been compromised and were eventually replaced in November 2016. While the analytical results associated with the June 3, 2016 sampling event are included herein, the results of this sampling event are not considered viable due to issues with four (4) of the six (6) vapor points. Subsequently, two (2) additional sampling events were completed to satisfy the project requirements.
- Other Analytical Methods: No additional analytical methods were completed as part of this investigation.
 - All QA/QC Checks to be Employed: QA/QC checks included the collection and analysis of one (1) QA/QC Duplicate sample during each of the five (5) sampling events. Laboratory QA/QC documents are included with the analytical data sheets.
 - Identification of the Entity Conducting the Sampling: Mr. Martin Gilgallon, P.G. of Pennsylvania Tectonics was responsible for the completion of the sampling activities conducted on June 21, 2008. Mr. Dean Cruciani of Pennsylvania Tectonics was responsible for the completion of the sampling activities on March 23, 2009. Mr. Kevin Cucura of Pennsylvania Tectonics was responsible for the completion of the sampling activities on June 3, 2015, January 29, 2016 and March 17, 2016.
 - Identification of the PA Registered Laboratory: The June 21, 2008 soil vapor analyzes were conducted by Maxxam Analytics, Incorporated of Burlington, Ontario, Canada. The March 23, 2009, June 3, 2015, January 29, 2016 and March 17, 2016 soil vapor analyses were conducted by ALS Environmental, Incorporated of Middletown, Pennsylvania.

4.4.4 Determination of PADEP Standards

The soil vapor data was compared to the Residential MSCs listed in Table 3 of the PADEP's "Land Recycling Program Technical Guidance Manual – Section IV.A.4 – Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard" Document Number 253-0300-100). The Residential MSCs for the compounds included in the TO-15 analysis are presented on the analytical summary tables provided in Appendix GG of this report.

4.4.5 Comparison of Data to Applicable Standards – June 21, 2008

The results of the June 21, 2008 Soil Vapor Sampling Program indicate there are no exceedances of the Residential standards promulgated by the PADEP. A summary of the June 21, 2008 soil vapor analytical data and the analytical data sheets are included in Appendix GG of this report.

4.4.6 Comparison of Data to Applicable Standards – March 23, 2009

The results of the March 23, 2009 Soil Vapor Sampling Program indicate there are no exceedances of the Residential standards promulgated by the PADEP. A summary of the March 23, 2009 soil vapor analytical data and the analytical data sheets are included in Appendix GG of this report.

4.4.7 Comparison of Data to Applicable Standards – June 3, 2016

The results of the June 3, 2016 Soil Vapor Sampling Program indicate there are no detected exceedances of the Residential standards promulgated by the PADEP. Reporting limits for the samples collected from VP-1 and VP-2 were above the Residential standards due to insufficient sample volume and subsequent dilution by the laboratory. A summary of the June 3, 2016 soil vapor analytical data and the analytical data sheets are included in Appendix GG of this report. Due the insufficient volume provided by VP-1, VP-2, VP-4 and VP-6, these vapor points were replaced by VP-1A, VP-2A, VP-4A and VP-6A on November 18, 2016.

4.4.8 Comparison of Data to Applicable Standards – January 29, 2016

The results of the January 29, 2016 Soil Vapor Sampling Program indicate there are no exceedances of the Residential standards promulgated by the PADEP. A summary of the January 29, 2016 soil vapor analytical data and the analytical data sheets are included in Appendix GG of this report.

4.4.9 Comparison of Data to Applicable Standards – March 17, 2016

The results of the March 17, 2016 Soil Vapor Sampling Program indicate one (1) compound concentration was detected at levels exceeding the Residential standards promulgated by the PADEP. The one (1) exceedance was limited to a Benzene concentration of 0.86 mg/m³ detected in the sample collected from VP-5 (adjacent to the former Jones / Jarrow Property). This concentration exceeds the associated 0.27 mg/m³ MSC_{SG}. A summary of the March 17, 2016 soil vapor analytical data and the analytical data sheets are included in Appendix GG of this report.

4.4.10 Preliminary Johnson & Ettinger Model – Jones / Jarrow Property

In 2001, a preliminary site-specific vapor intrusion analysis was completed for MTBE, Benzene, Ethylbenzene, Cumene, Toluene, Naphthalene, Xylenes, 1,3,5-TMB and 1,2,4-TMB at the Jones / Former Jarrow Residence. The analysis was completed in January 2011 using the RBCA Tool Kit for Chemical Releases Version 2.5 software (copyright GSI Environmental, Incorporated, 2009). The spreadsheet-based analysis included the input of site-specific parameters to determine the volatilization from subsurface soils using the Johnson & Ettinger model. The following provides the pertinent input data and rationale for use in the model. Note, these parameters were used to provide extremely conservative indoor air inhalation exposure values.

- The source for indoor air exposure is groundwater, no contaminated soils are present.
- The model was run assuming the groundwater contamination is located only 10 feet below the bottom of the concrete basement floor and the soils between the water table and the concrete floor are sand.
- The groundwater plume extends under the entire residential dwelling (100 feet was used as the plume width in the model).
- The contaminant concentrations used in the model were the highest values ever observed (to that point) from the onsite potable supply well, MW-10S, or MW-10D. MW-10S and MW-10D are located immediately upgradient of the residential dwelling.
- The residential dwelling and basement footprint are approximately 1004 square feet with a basement ceiling height of 8 feet.

- The model was run using a conservative basement floor thickness of 1-inch with no vapor barrier. The actual concrete thickness is 3-inches with no vapor barrier.

The results of the preliminary analysis for carcinogens (Benzene and MTBE) do not exceed the cancer risk level of 1×10^{-5} as specific by the Statewide health standard. The results of the analysis for non-carcinogens (Ethylbenzene, Cumene, Toluene, Naphthalene, Xylenes, TMBs) do not exceed the cumulative hazard quotient of 1.0 as specified by the USEPA. The model input and output parameters are provided in Appendix HH. Please note, subsequent soil vapor sampling activities have identified a potentially complete soil-vapor or groundwater-vapor pathway at the Jones / Former Jarrow residence.

4.5 Findings

Based on the completion of the Vapor Intrusion Evaluation as summarized above, including the collection and analysis of five (5) rounds of soil-gas samples, a potentially complete soil-vapor pathway or groundwater-vapor pathway exists at the Jones / Former Jarrow residence. The results of the March 17, 2016 soil-gas sampling documented the exceedance of the MSC_{SG} for Benzene in the vicinity of the Jones / Former Jarrow Residence.

5. SENSITIVE RECEPTOR SURVEY

5.1 General

Pennsylvania Tectonics conducted a Sensitive Receptor Survey at and in the vicinity of the subject property. Sensitive receptors evaluated as part of this investigation included water usage, surface water bodies, underground utilities and basements. The related activities included a review of tax maps, a review of property assessment information, a PNDI Search and an area canvass. A 1,000-foot radius water usage survey was completed as part of this survey. This 1,000-foot radius extended from the edge of the soil / groundwater contaminant plume, not from the center of the subject property.

5.2 Ecological Screening

According to the PADEP's Technical Guidance Manual (TGM), "all sites remediated to the Statewide Health Standard must be screened for impacts to ecological receptors". As such, Pennsylvania Tectonics followed the screening process described in Section 250.311 of the regulations and the flow chart included as Figure II-6 in the TGM to complete this process. The following information is provided:

- **Step 1:** Step 1 of the Ecological Screening Flow Chart (Section 250.311(b)(1)) asks are the only constituents detected onsite associated with light petroleum products, including jet fuel, gasoline, kerosene, fuel oil #2 or diesel fuel? The potential contaminants of concern at the subject property include gasoline. Therefore, the answer to Step 1 is "Yes".
- **Step 2:** Step 2 of the Ecological Screening Flow Chart (Section 250.311(b)(2)) asks is the area less than two (2) acres of impacted surface soils or less than 1,000 square feet of impacted sediment? No surface soils or sediments were impacted on the subject property. Therefore, the answer to Step 2 is "Yes".
- **Step 3:** Step 3 of the Ecological Screening Flow Chart (Chapter 250.311(b)(3)) asks, does the site have features, which would obviously eliminate specific exposure pathways? The residual soil and groundwater contamination was located below grade. Therefore, the answer to this question is "Yes".

According to the regulations, if the criteria in Step 1, Step 2 or Step 3 are met, no further ecological action is required. Since the criteria in Step 1, Step 2 and Step 3 have been met for the subject property, no further ecological screening action should be required. However, the site has not been remediated and soil and groundwater concentrations, in excess of the Statewide Health Standards, remain on site. Because there are no special concern species or habitats in the area of concern, no federally listed, proposed or candidate species identified in the area of concern, and no complete ecological exposure pathways to soil or groundwater present at the site, the preliminary ecological screening process is adequate to determine that no substantial ecological risk exists at the subject property.

5.3 PNDI Search

Pennsylvania Tectonics completed a PNDI Search as part of the Sensitive Receptor Survey. No known impacts were identified by the PA Game Commission, PA DCNR, the PA Boat & Fish Commission or the US Fish & Wildlife Service as a result of the completion of the PNDI Search. Refer to Appendix II for a copy of the PNDI Project Environmental Review Receipt.

5.4 Well Inventory / Water Usage Survey

Pennsylvania Tectonics completed a well inventory as part of the Sensitive Receptor Survey. This inventory was completed as a door-to-door survey conducted during the private production well sampling activities. An in-depth discussion of the private well sampling activities is included in Section 7.4 of this report. A brief overview of the well inventory, well sampling and analysis activities is provided, as follows:

- Study Area: Samples were collected in all directions in the vicinity of the subject property. The sampling was initiated in close proximity to the subject property and the area of investigation was expanded, as necessary, in response to the analytical data generated.
- Pennsylvania Tectonics collected drinking water samples from a total of seventy-four (74) private wells.
- Detectable levels of contamination were documented in twenty-seven (27) private wells. Only two (2) of these private wells, Jarrow (currently Jones) and Crossley, historically had compound concentrations in excess of the applicable Statewide Health Standards.
- A total of twenty-seven (27) POET systems were installed as part of the interim remedial actions conducted by Pennsylvania Tectonics.
- The well located at the Amy Jarrow Property (i.e. the Old Jarrow Well) was replaced with a new well in July 2011. The Old Jarrow Well was subsequently abandoned, as discussed below.

As part of the water usage survey, Pennsylvania Tectonics completed the following activities:

- Conducted a private and public well search by obtaining an area specific report;
- Obtained and reviewed tax maps for the area;
- Contacted the local municipality (Scott Township) and closest water authority (Pennsylvania American Water Company) to confirm water usage in the area of the subject property and determine any local restrictions on water usage;
- Reviewed of County property assessment records;
- Canvassed the area of the subject property, and;
- Completed a field verification of the water supply to the subject property and the surrounding properties.

In summary, a review of Lackawanna County tax maps and tax assessor's records indicate there are one-hundred seven (107) distinct tax parcels within a 1,000-foot radius of the groundwater contaminant plume. Since there was no public water supply system within this 1,000-foot radius at the time of this report, it can be presumed that any developed parcel maintains a private groundwater production well or shares a production well with a neighboring property. Drinking water sampling conducted by Pennsylvania Tectonics included the collection of samples from seventy-four (74) production wells. The results of this sampling delineated the impacts to drinking water supplies and lead to the installation of twenty-seven (27) POET systems that are

maintained and monitored on a routine basis. A summary of the water usage information is provided in Appendix JJ.

5.5 Surface Water Receptors

A review of topographic maps of the general area indicates that the closest surface water feature is an unnamed tributary to Hull Creek, which is located in the northeastern portion of the subject property. The headwaters of this tributary include a pond and forested wetlands located to the north of the subject property. The unnamed tributary flows in a southeasterly direction to its confluence with Hull Creek. Hull Creek flows in a southeasterly direction to its confluence with the Lackawanna River. The Lackawanna River flows in a southerly direction to its confluence with the Susquehanna River near the City of Pittston, Luzerne County, Pennsylvania.

A review of surface water features located within the 1,000-foot radius of the groundwater plume indicates potential surface water receptors are limited to the forested wetland located to the north, the pond located to the north, the unnamed tributary to Hull Creek and Hull Creek. Refer to Appendix A for a Surface Water Features Map (Figure 15) depicting the study area, the 1,000-foot radius and the associated surface water features.

A review of the Special Protection Waters for Lackawanna County, as listed in the Pennsylvania State Code Title 25 Chapter 93.9, indicates the unnamed tributary to Hull Creek and Hull Creek are classified as High Quality Cold Water Fisheries. A total of eight (8) rounds of surface water samples have been collected from this unnamed tributary between June 2008 and March 2016. The results of the surface water sampling activities have identified the absence of petroleum-related contamination.

Two (2) stream gauges (SG-1 and SG-2) have been installed in the unnamed tributary as part of the site characterization activities. The groundwater elevation data for MW-5s, the closest groundwater monitoring well to the unnamed tributary, was compared to the stream elevations for each sampling event. The results of this comparison indicate stream elevations are routinely higher than the groundwater elevations in MW-5. This observation illustrates that the unnamed tributary is a losing stream. The unnamed tributary is fed by the wooded wetland and pond located to the north / northeast of the subject property.

5.6 Evaluation of Exposure Pathways

Pennsylvania Tectonics has completed an evaluation of potential exposure pathways to determine if the subject property has the potential to impact human health and the environment. A review of these potential pathways is as follows:

- Soils - Direct Contact: A review of site soils data indicates residual soil contamination concentrations exist at levels exceeding their applicable Direct Contact MSCs in three (3) samples. These samples include TB-4A, TB-31B and SS-11. As such, there is a potentially complete Direct Contact Exposure Pathway at the subject property. The following details are offered.
 - Soil sample TB-4A was collected from TB-4 at a depth of 2.0 – 3.5 feet below grade on February 28, 2008. This sample expressed a Benzene concentration of 173.0 mg/kg (Direct Contact MSC 57.0 mg/kg) and a 1,2,4-TMB concentration of 446.0 mg/kg (Direct Contact MSC 130.0 mg/kg). The soil associated with TB-4A was excavated during the September 2010 Source Reduction Activities outlined in Section 7.5 of this report.
 - SS-11 was an attainment sample collected on September 23, 2010 subsequent to the September 2010 Source Reduction Activities. SS-11 was collected at 3.6' below

grade and expressed a 1,2,4-TMB concentration of 291.0 mg/kg (Direct Contact MSC 130.0 mg/kg).

- Soil sample TB-31B was collected from TB-31 at a depth of 13.5 – 14.5 feet below grade on November 11, 2015. This sample expressed a 1,2,4-TMB concentration of 433.0 mg/kg (Direct Contact MSC 130.0 mg/kg).
 - The two (2) existing Direct Contact exceedances outlined above (i.e. SS-11 and TB-31B) are located at the subject property in close proximity to the historical gasoline dispenser island.
- Groundwater: The results of the site characterization activities have identified the presence of groundwater contamination at concentrations exceeding the applicable Statewide Health Standards. Groundwater is utilized as a potable water source in the vicinity of the subject property. Private production wells in the vicinity of the subject property have been sampled and POET systems have been installed on impacted wells. As such, there is a potentially complete Groundwater Exposure Pathway at the subject property. This potentially complete exposure pathway has been mitigated via the installation, maintenance and monitoring of twenty-seven (27) POET systems. Refer to Section 7.4 for an in-depth discussion of the POET system installation and sampling activities.
- Surface Water: The closest surface water is an unnamed tributary to Hull Creek, located in the northeastern portion of the subject property. A review of stream elevations versus groundwater elevations indicates groundwater baseflow at the subject property does not discharge into this unnamed tributary. In addition, eight (8) rounds of surface water samples have been collected and no positive compound concentrations have been reported. Therefore, there is no potentially complete Surface Water Exposure Pathway at the subject property.
- Vapor Intrusion: The results of the Vapor Intrusion Evaluation indicate there is a potentially complete Soil-Vapor Exposure Pathway in association with the presence of the VOC contamination identified in the site soils and/or groundwater. This exposure pathway is associated with the Jones residence (former Jarrow residence).

6. SELECTED REMEDIATION STANDARDS

For the purpose of the site characterization / interim remedial activities summarized in this report, the parameters of concern are limited to a combination of the Leaded Gasoline Parameters and the Unleaded Gasoline Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems, as amended December 15, 2012. The list of the “Project Parameters” is as follows:

- MTBE
- Benzene
- Ethylbenzene
- Cumene (Isopropylbenzene)
- Toluene
- Naphthalene
- Total Xylenes
- 1,3,5-TMB (not required prior to March 2008)
- 1,2,4-TMB (not required prior to March 2008)
- EDB / EDC (not required prior to September 12, 2013)
- Total / Dissolved Lead (not required prior to September 12, 2013)

According to Act 2, a remediation cleanup standard can be selected for each media of concern and furthermore for each compound of concern. The four (4) standards provided in Act 2 include the Statewide Health Standard, site-specific standard, background standard and special industrial area provision. Since no onsite migration of contaminants from an offsite source has been documented, the background standard cannot be attained. In addition, the site does not qualify as a special industrial area. Therefore, the Statewide Health Standards and Site-Specific Standards are viable options for the site. To demonstrate attainment of the Statewide Health Standard, site soil and groundwater must be remediated to concentrations equivalent to the Statewide Health Standard MSCs. The selection of the site-specific standard requires the elimination of risks associated with elevated target compounds. For the purpose of this Final Site Characterization Report, all soil and groundwater analytical data generated has been compared to the Residential, Used Aquifer (TDS <2,500 mg/l) Statewide Health Standard MSCs. A summary of the MSCs are included in the following table:

Table 6-1
Lewis Brothers Garage Property
Summary of the Applicable MSCs

Parameter	Soil MSCs*		Groundwater MSCs
	Direct Contact	Soil-to-Groundwater	
Benzene	57.0 mg/kg	0.5 mg/kg	5.0 ug/l
Cumene	7,700.0 mg/kg	600.0 mg/kg	840.0 ug/l
Ethylbenzene	10,000.0 mg/kg	70.0 mg/kg	700.0 ug/l
MTBE	620.0 mg/kg	2.0 mg/kg	20.0 ug/l
Naphthalene	4,400.0 mg/kg	25.0 mg/kg	100.0 ug/l
Toluene	10,000.0 mg/kg	100.0 mg/kg	1,000.0 ug/l
1,2,4-TMB	130.0 mg/kg	8.4 mg/kg	15.0 ug/l
1,3,5-TMB	2,200.0 mg/kg	74.0 mg/kg	420.0 ug/l
Total Xylenes	1,900.0 mg/kg	1,000.0 mg/kg	10,000.0 ug/l
EDB	0.74 mg/kg	0.005 mg/kg	0.05 ug/l
EDC	17.0 mg/kg	0.5 mg/kg	5.0 ug/l
Lead	500.0 mg/kg	450.0 mg/kg	5.0 ug/l

(*) Soil-to-Groundwater Pathway MSCs provided for Unsaturated Soil Conditions

7. INTERIM REMEDIAL ACTIONS

7.1 General

Pennsylvania Tectonics has completed the following Interim Remedial Actions in accordance with the regulations outlined in 25 Pennsylvania Code Chapter 245.306. These activities, which are summarized below, include the following:

- Removal of Product from the Current Storage Tank Systems
- Separate Phase Liquid Recovery from Shallow Monitoring Wells
- Installation, Monitoring and Maintenance of Point-of-Entry Treatment Systems
- Excavation and Disposal of Contaminated Soil – Source Reduction
- Installation of a Replacement Well at the Jones / Jarrow Residence
- Completion of a High Vapor Extraction Demonstration

7.2 Removal of Product From Storage Tank Systems

On April 27, 2007, Pennsylvania Tectonics completed the removal of product and water from the two (2) USTs located at the subject property. These USTs include one (1) 6,000-gallon gasoline UST (Tank #003) and one (1) 10,000-gallon gasoline UST (Tank #004). A total of 115 – 120 gallons of gasoline and water was removed from the vessels and containerized in three (3) 55-gallon steel drums. The three (3) drums of gasoline and water were transported offsite by Nobel Environmental Services Corporation on May 8, 2007. Refer to Appendix KK for documentation associated with the disposal of the three (3) 55-gallon drums of gasoline and water. The two (2) USTs were periodically gauged to ensure groundwater was not entering the systems. Tables summarizing the data generated during the UST gauging events are included in Appendix LL.

7.3 Separate Phase Liquid Recovery – Monitoring Wells

Separate phase liquid (SPL) has been observed in MW-2s and MW-3s. Between March 22, 2008 and May 2016, Pennsylvania Tectonics completed SPL recovery activities at MW-2s and MW-3s. These activities included removing SPL from the monitoring wells via hand bailing methods and the installation of passive skimmers. A total of 44.25 gallons of product has been recovered from MW-2s. A total of 37.0 gallons of product has been recovered from MW-3s. The majority of the 81.25 gallons of product recovered from the monitoring wells was collected during the initial recovery activities conducted in 2008. Tables summarizing the product thickness and product recovery information associated with MW-2s and MW-3s are included in Appendix MM. On May 1, 2008, three (3) 55-gallon drums of water and product generated from MW-2s and MW-3s was transported offsite for disposal. On June 2, 2016, two (2) 55-gallons of water with a trace amount of product generated from MW-2s and MW-3s was transported offsite for disposal. Copies of the May 1, 2008 and the June 2, 2016 Hazardous Waste Manifests are also included in Appendix MM.

7.4 Point of Entry Treatment (POET) Systems

7.4.1 General

Between May 2007 and August 2015, Pennsylvania Tectonics collected seventy-four (74) initial drinking water samples and twenty-nine (29) confirmatory drinking water samples from private production wells located in the vicinity of the subject property. The results of these activities identified positive compound concentrations in twenty-seven (27) of the seventy-four (74) wells sampled. A table summarizing the private wells exhibiting positive compound concentrations is included as Table 7-1 as follows:

Table 7-1
Lewis Brothers Garage Property
Site Characterization Activities
Summary Private Wells Exhibiting Positive Compound Concentrations

Name	Map ID #	Physical Address
Bobar, William*	3	102 Hemmel Street
Bright, Beverly*	9	RR #2 Box 50
Crossley, William	10	RR #2 Box 55
Fryzel, Richard*	16	RR #2 Box 49
Hryhorcoff, Mary*	20	RR #2 Box 47
Jarrow, Amy**	21	RR #1 Box 54
Kalinowski, Karen*	24	RR #2 Box 84
Kazuba, Robert	25	104 Doris Street
King, Howard*	26	104 Hemmel Street
Kovaleski, Karen	29	RR #1 Box 51
Kowalski, Walter	30	104 Hilltop Drive
Kropiewnicki, Robert*	31	107 Hemmel Street
Kuzmiak, Michael Jr.*	33	111 Hemmel Street
Kvaka, Joseph	35	108 Hilltop Drive
Lewis Homestead*	36	RR #2 Box 56
Stephens, Jeffery*	38	858 Justus Boulevard
Makala, Andy	39	RR #2 Box 99
Nole, Dan*	48	113 Hilltop Drive
Pascavage, Margaret	49	RR #2 Box 70
Pruzinski, Jeff*	51	RR #1 Box 120A
Rabel, Pauline	52	106 Hilltop Drive
Rusyn, Bob*	56	RR #2 Box 97
Steinmetz, Mary*	62	RR #2 Box 48
Strong, Barbie	63	RR #1 Box 58
Telesz, Andrew*	64	105 Doris Street
Tokarz, Frank	67	RR #2 Box 117 (Govan Road)
Trinovitch, Johanna*	69	110 Hilltop Drive

(*) – Initial and/or confirmatory sample results for these sixteen (16) private wells were reported as estimated values or “J” values. According to the USEPA, this “J” designation is used when the mass spectral and retention time data indicate the presence of a compound that meets the volatile GC/MS identification criteria, and the result is less than the adjusted contract required quantitation limit (CRQL) but is greater than zero. Based on these reported “J” values, the PADEP indicated these drinking water wells met the definition of an affected or diminished water supply pursuant to 25 Pennsylvania Code Chapter 245.307. As such, the PADEP required that POET systems be installed at these locations.

(**) - No initial or confirmatory samples were collected by Pennsylvania Tectonics from the Amy Jarrow Residence. In December 2006, the PADEP collected one (1) drinking water sample from the Jarrow well and reported an MTBE concentration of 40.0 ug/l. A POET system was installed by Pennsylvania Tectonics following this detection. As such, data generated by Pennsylvania Tectonics for the Jarrow well is limited to routine sampling of the POET System. This well has since been replaced (refer to Section 7.6).

7.4.2 POET System Installation Activities

A POET system was installed on each well that exhibited positive compound concentrations. The twenty-seven (27) systems were installed by Cresswell Drilling Company, Incorporated of Dalton, Pennsylvania. Each POET system consists of one (1) ultraviolet (UV) light, two (2) activated carbon filters and two (2) sediment filters. A schematic of the POET system layout is as follows:

Well → Pressure Tank → #1 Sediment Filter → (Water Softener as Needed) → UV Light →
 #1 Carbon Filter → #2 Carbon Filter → #2 Sediment Filter → Structure

7.4.3 Historical POET System Sampling Activities

Between January 2008 and June 2014, eighteen (18) full or partial rounds of samples were collected from the POET systems. In general, three (3) samples were collected from each system. One (1) sample was collected from the pressure tank prior to the POET system (Raw Sample); one (1) sample was collected from between the #1 and #2 carbon filters (Middle Sample); and one (1) sample was collected from the kitchen sink (Treated Sample). Prior to the collection of the samples, the cold water was run for a minimum of fifteen (15) minutes to ensure a fresh sample. A table summarizing the historical POET system sampling events is included as Table 7-2, as follows:

Table 7-2
Lewis Brothers Garage Property
Site Characterization Activities
Summary of Historical POET System Sampling Events

Date	# of Systems Sampled
January 2008*	1
May / June 2008	22
July 2008*	1
August / December 2008	26
February 2009	27
May 2009	5
September 2009	6
March 2010	6
June / August 2010	27
January 2011*	1
May 2011*	1
August 2011	24
November 2011	5
June 2012	5
April 2013	2
September 2013	27
January 2014	2
June 2014	2

(*) Sampling event included the Amy Jarrow residence only

7.4.4 Routine POET Sampling Events – January 2015 to Present

Beginning in January 2015, the sampling of the POET systems was initiated on a routine basis. The twenty-seven (27) POET systems were categorized into one (1) of three (3) tiers based on a review of historical drinking water analytical data. Each tier was assigned a specified sampling protocol and sampling frequency to be followed. The sampling frequency is outlined in Table 7-3. The sampling protocol is summarized below. Refer to Appendix A for a Tier 1 Wells Location Map (Figure 16), a Tier 2 Wells Location Map (Figure 17) and a Tier 3 Wells Location Map (Figure 18).

**Table 7-3
Lewis Brothers Garage Property
Annual POET Sampling Schedule**

Tier 1 Wells (3)	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Crossley	Quarterly	Quarterly	Quarterly	Quarterly
Jones	Quarterly	Quarterly	Quarterly	Quarterly
Kowalski	Quarterly	Quarterly	Quarterly	Quarterly
Tier 2 Wells (8)				
Bright	Annual	Quarterly	Quarterly	Quarterly
Fryzell	Annual	Quarterly	Quarterly	Quarterly
Hryhorcoff	Annual	Quarterly	Quarterly	Quarterly
Kvaka	Annual	Quarterly	Quarterly	Quarterly
Lewis	Annual	Quarterly	Quarterly	Quarterly
Pascavage	Annual	Quarterly	Quarterly	Quarterly
Steinmetz	Annual	Quarterly	Quarterly	Quarterly
Strong	Annual	Quarterly	Quarterly	Quarterly
Tier 3 Wells (16)				
Bobar	Annual	NA	NA	NA
Kalinowski	Annual	NA	NA	NA
Kazuba	Annual	NA	NA	NA
King	Annual	NA	NA	NA
Kovaleski	Annual	NA	NA	NA
Kropiewnicki	Annual	NA	NA	NA
Kuzmiak	Annual	NA	NA	NA
Stephens	Annual	NA	NA	NA
Makala	Annual	NA	NA	NA
Nole	Annual	NA	NA	NA
Pruzinski	Annual	NA	NA	NA
Rabel	Annual	NA	NA	NA
Rusyn	Annual	NA	NA	NA
Telesz	Annual	NA	NA	NA
Tokarz	Annual	NA	NA	NA
Trinovitch	Annual	NA	NA	NA

- **Tier 1 Wells:** The three (3) Tier 1 wells are sampled on a quarterly basis. During each quarterly event, raw, middle and treated samples are collected for laboratory analysis. The raw and middle samples are analyzed for the Unleaded Gasoline Parameters via EPA Method 8260. The treated samples are analyzed for the Unleaded Gasoline Parameters via EPA Method

524.2. The Jones well no longer maintains a POET. As such, the raw water sample is analyzed via EPA Method 524.2.

- **Tier 2 Wells:** The eight (8) Tier 2 wells are sampled on an annual and quarterly basis. During each annual event, raw, middle and treated samples are collected from laboratory analysis. The raw and middle samples are analyzed for the Unleaded Gasoline Parameters via EPA Method 8260. The treated samples are analyzed for the Unleaded Gasoline Parameters via EPA Method 524.2. The raw water sample is the only sample collected during the quarterly sampling events. The raw water samples are analyzed via EPA Method 524.2.
- **Tier 3 Wells:** The sixteen (16) Tier 3 wells are sampled on an annual basis only. During each annual event, raw, middle and treated samples are collected from laboratory analysis. The raw and middle samples are analyzed for the Unleaded Gasoline Parameters via EPA Method 8260. The treated samples are analyzed for the Unleaded Gasoline Parameters via EPA Method 524.2.

7.4.5 POET System Sampling Results

Pennsylvania Tectonics has reviewed all of the POET system sampling analytical data. A table summarizing the POET system sampling analytical is included in Appendix BB. Laboratory analytical data sheets are included in Appendix NN. The results of the POET system sampling activities indicate the design of the treatment systems has adequately addressed the impacted production wells. The following summary is offered:

- **Tier 1 Wells:** A summary of the Tier 1 well analytical data is as follows:
 - **Crossley:** Positive Benzene and/or MTBE concentrations have been detected in five (5) of the last eight (8) rounds of sampling. All compound concentrations have been below the applicable MSCs.
 - **Jones:** The Jones well has been sampled ten (10) times since the well was brought online on September 12, 2011. All compound concentration have been below the respective MDLs since that time.
 - **Kowalski:** Positive MTBE concentrations have been detected in four (4) of the last eight (8) rounds of sampling. All compound concentrations have been below the applicable MSCs.
- **Tier 2 Wells:** The raw water sample concentrations associated with the eight (8) Tier 2 wells have been below the MDLs for a minimum of the past eight (8) quarters of sampling. This sampling dates back to February 2009.
- **Tier 3 Wells:** The raw water sample concentrations associated with the sixteen (16) Tier 3 wells have been below the MDLs for a minimum of the past seven (7) quarters of sampling. This sampling dates back to August 2008.

7.5 Source Reduction Activities – Soil Excavation & Disposal

7.5.1 Impacted Soil Excavation Activities – April 2008

On April 15, 2008, Pennsylvania Tectonics completed partial system closure activities and soil remediation activities at the subject property. The partial system closure activities included the removal of the two (2) product

dispensers and the product feed lines. The purpose of these activities was to determine the potential source of the soil and groundwater contamination identified at the subject property. The field activities were supervised by Mr. Martin Gilgallon, P.G. of Pennsylvania Tectonics (Company Certification #1517), a Pennsylvania Certified Tank Installer (Installer Certification #4294). Mr. Kevin Walker of the PADEP was present onsite to observe the partial closure activities.

The field activities were initiated in the area of the two (2) product dispensers. Dispenser 1 was identified as the northern-most dispenser, while Dispenser 2 was identified as the southern-most dispenser. The following observations were noted:

- The area directly below the product dispensers and the area surrounding the feed lines were backfilled with pea gravel.
- The product feed lines were observed to be constructed of single-walled fiberglass. The integrity of the feed lines appeared to be good and no potential leak points were identified.
- The product feed lines were connected to the dispensers with a stainless steel flex hose. Cathodic protection was observed on the stainless steel flex hose in the form of sacrificial anodes. The anodes were buried 21" into the pea gravel and were not installed into the native soils.
- The subsurface piping associated with Dispenser 1 appeared to be sound. The subsurface piping associated with Dispenser 2 appeared to be compromised. Fittings connecting the fiberglass piping to the flex hose, and fittings connecting the dispenser to the flex hose, were loose. These bad connections were possible sources of contamination.

Pennsylvania Tectonics completed a site assessment subsequent to the removal of the dispensers and product feed lines. Field observations identified the presence of distinct gasoline odors in the soils located below the dispenser island. Readings collected from this area with a PID exceeded 3,000 ppm. The contamination appeared to have migrated along the piping trench. Pennsylvania Tectonics initiated soil remediation activities to remove the most heavily contaminated soils. Soil excavation continued to a depth of 5.0 feet, at which point water was observed in the cavity. It is believed the highly permeable pea gravel acted to collect surface infiltration. Furthermore, the removal of soil along the product feed lines near the UST field released groundwater from the tank cavity, flooding the excavation. As such, no additional soil excavation was conducted vertically. The horizontal extent of the excavation activities was limited due to the location of PA Route 347 and the onsite structure. An approximate total of sixty (60) tons of impacted soil was excavated and stockpiled onsite. The cavity was backfilled with clean fill obtained from an off-site quarry. Since soil samples were previously collected from this area as part of the test boring program, the PADEP did not require the collection of exit samples from the excavation cavity. Refer to Appendix A for a map depicting the excavation area (Figure 19).

On August 20, 2010, the soil generated during the April 2008 excavation activities was transported to Clean Earth, Incorporated in Hagerstown, Maryland for treatment. This disposal event also included 59.21 tons of drill cuttings generated during the monitoring well installation activities at the subject property. As such a total of 119.21 tons of material was shipped off-site during the August 2010 disposal event. Documentation associated with soil disposal activities at the subject property is included in Appendix OO.

7.5.2 UST Cavity Dewatering Activities

On September 20, 2010 and September 21, 2010, Pennsylvania Tectonics completed the field activities associated with the dewatering of the current UST cavity. These activities were conducted in preparation for the

proposed soil excavation activities in the vicinity of the current UST cavity. An approximate total of 9,000 gallons of water was pumped from OW-4 located within the UST cavity. The water generated during these activities was staged in a temporary storage container, treated and discharged, under a temporary discharge permit, to the unnamed tributary to Hull Creek. The scope of work associated with the temporary discharge permit was approved by Mr. Michael Brunamonti, P.E. of the PADEP via email on August 26, 2010. A summary of the aqueous waste treatment events is included in Section 2.5.8 of this report.

7.5.3 Impacted Soil Excavation Activities – September 2010

In September 2010, Pennsylvania Tectonics completed the excavation and disposal of impacted soil in association with Source Reduction activities. These activities included the excavation and disposal of 426.67 tons of impacted soil. Refer to Attachment A for map depicting the limits of the September 2010 Source Reduction excavation (Figure 19). The following observations are given:

- The Source Reduction excavation was 36' long, 14' wide and 15' deep.
- Elevated PID readings and strong gasoline odors were observed from 3.0' below grade to 15.0' below grade. Soil within the 3.0' – 15.0' interval expressed PID readings ranging from 0.0 ppm to 3,378 ppm.
- Excavated soil was segregated based on PID readings. Approximately 5 to 10 tons of presumably “clean” material was generated. The presumably “clean” stockpile was placed on 6 mil ploy sheeting and covered with the same. Two (2) grab samples were collected from the stockpile for laboratory analysis. The results of the analysis indentified positive compound concentrations. These positive concentrations were below the applicable MSCs and the presumably “clean” stockpile was ultimately reused as fill during the backfilling activities.
- A total of 426.67 tons of contaminated material was transported off-site for treatment at Clean Earth of Maryland, Incorporated in Hagerstown, Maryland. Refer to Appendix OO for documentation associated with the soil disposal activities.
- Obvious petroleum impacted soil was observed upon completion of the excavation activities. The excavation could not be extended horizontally due to the close proximity of site features (i.e. the site structure and current USTs) and the Right-of-Way for State Route 347.

7.5.4 Soil Attainment Sampling – September 2010

Upon completion of the Source Reduction excavation activities, Pennsylvania Tectonics completed soil attainment sampling activities. Pennsylvania Tectonics completed attainment sampling in accordance with the requirements included in 25 PA Code Chapter 250.707 (Statistical Tests). Specifically, the regulations pertaining to “sites” where there is a release resulting in the excavation of between 125 cubic yards and 3,000 cubic yards of contaminated soil were followed. Twelve (12) soil samples were collected from the excavation cavity in accordance with the Systematic Random Sampling Procedures set forth in the Act 2 Technical Guidance Manual. The twelve (12) soil samples were submitted to ALS Environmental in Middletown, Pennsylvania and analyzed for the Unleaded Gasoline Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems, as amended. Refer to Appendix PP for copies of the Systematic Random Sampling worksheets and sampling grid.

7.5.5 Discussion of Attainment Sampling Analytical Data – September 2010

The analytical results associated with the September 2010 soil attainment sampling were received by Pennsylvania Tectonics on October 14, 2010. The analytical results indicate compound concentrations, in excess of the applicable Statewide Health Standard MSCs, were detected in ten (10) of the twelve (12) soil samples collected for analysis. Refer to Appendix QQ for a table summarizing the September 2010 Soil Attainment Data. The laboratory analytical data sheets are also included in Appendix QQ. A summary of the September 2010 compound exceedances is included in Table 7-4, as follows:

Table 7-4
Lewis Brothers Garage Property
Soil Sample Analytical Data (mg/kg)
Summary of Exceedances – September 2010 Soil Attainment Sampling

Sample #	Depth	Parameter	Concentration	ACT 2 MSC
SS-1	6.9'	Benzene	0.516	0.5
		1,2,4-TMB	45.0	8.4
SS-2	6.4'	Benzene	0.897	0.5
		1,2,4-TMB	29.6	8.4
SS-3	13.3'	Benzene	2.21	0.5
		1,2,4-TMB	9.23	8.4
SS-4	1.2'	Benzene	0.874	0.5
		1,2,4-TMB	21.0	8.4

Table 7-4 (Continued)
Lewis Brothers Garage Property
Soil Sample Analytical Data (mg/kg)
Summary of Exceedances – September 2010 Soil Attainment Sampling

Sample #	Depth	Parameter	Concentration	ACT 2 MSC
SS-5	1.5'	MTBE	2.32	2.0
		Benzene	18.2	0.5
		Toluene	109.0	100.0
		1,2,4-TMB	55.0	8.4

SS-6	13.6'	Benzene	4.2	0.5
		1,2,4-TMB	39.69	8.4
SS-7	15.0'	Benzene	2.77	0.5
		1,2,4-TMB	12.9	8.4
SS-9	9.7'	Benzene	1.72	0.5
		1,2,4-TMB	72.3	8.4
SS-11	3.6'	Benzene	15.6	0.5
		Toluene	237.0	100.0
		Naphthalene	31.3	25.0
		1,3,5-TMB	94.0	74.0
		1,2,4-TMB	291.0	8.4
SS-12	12.8'	1,2,4-TMB	13.4	8.4

As indicated in the table above, two (2) benzene concentrations and one (1) 1,2,4-TMB concentration (**shown in bold**) were found to be greater than ten (10) times the applicable MSCs. In addition, greater than 75 percent of the samples expressed compound concentrations in excess of the applicable MSCs. As such, attainment could not be demonstrated utilizing the 75% / 10x Ad Hoc Rule.

7.6 New Production Well Installation Activities – Jarrow Well

7.6.1 General

Between July 26, 2011 and December 2, 2011, Pennsylvania Tectonics completed the installation of one (1) new production well at the Jarrow Residence. The scope of work associated with these activities included the determination of the well location, installation of the production well, plumbing and wiring installation activities, abandonment of the historical POET system, abandonment of the historical production well and the completion of site restoration activities. Drilling services were provided by Eichelbergers, Incorporated of Mechanicsburg, Pennsylvania. Cresswell Drilling Company, Incorporated of Dalton, Pennsylvania provided plumbing and wiring services. J. Karp and Sons, Incorporated of Factoryville, Pennsylvania completed the abandonment of the Old Jarrow production well.

7.6.2 Production Well Installation Activities

Between July 26, 2011 and August 1, 2011, Pennsylvania Tectonics completed the installation of one (1) production well at the Jarrow Residence. The boring was completed utilizing air rotary drilling techniques. The production well was constructed by installing a 12" boring through the overburden to the top of competent bedrock. 10" steel casing was then installed to the top of bedrock utilizing a drive shoe. A 10" borehole was installed to 230' below grade and 6" steel casing was installed. A bentonite / cement grout was then placed between the 10" steel casing and 12" boring and between the 6" steel and 10" steel casings. A 6" open rock borehole was then drilled until the well yielded a minimum of six (6) gallons per minute. Refer to Appendix RR for a copy of the Well Log and Well Completion Report associated with the well installation. A summary of the well construction information is provided in Table 7-5, as follows:

Table 7-5
Lewis Brothers Garage Property
Well Construction Information
New Production Well Installation – Jarrow Residence

Well #	Total Depth	Top of Bedrock	Rock Socket Interval	Open Rock Interval	Yield
Jarrow Replacement Well	352'	30.0'	30.0' – 230'	230 - 352'	15.5 gpm

A drinking water sample was collected directly from the Jarrow Replacement Well on September 12, 2011. The analytical data indicated the absence of unleaded gasoline-related contamination in the drinking water. The well was placed online on October 4, 2011. Nine (9) additional rounds of water quality testing were completed between November 11, 2011 and June 29, 2016. These sampling events confirmed the absence of unleaded gasoline-related contamination in the drinking water. Refer to Appendix SS for the laboratory analytical data sheets associated with the sampling of the Jarrow Replacement Well.

7.6.3 Completion of Borehole Geophysics – Old Jarrow Well

Pennsylvania Tectonics proposed the completion of Borehole Geophysics on the Old Jarrow Well prior to the completion of the abandonment activities. The goal of these activities was to provide useful information pertaining to the structural geology of the site, in addition to information regarding the flow of groundwater at depth. The Borehole Geophysics investigation was completed on November 29, 2011 by ARM Geophysics of Hershey, Pennsylvania. The logs that were run for this investigation include:

- Natural Gamma Ray
- Single Point Resistance
- Spontaneous Potential
- Short & Long Normal Resistivity
- Fluid Temperature
- Fluid Resistivity
- 3-Arm Caliper
- Heat Pulse Flowmeter
- Acoustic and Optical Televiewer

The results of the Borehole Geophysics are summarized in the ARM Geophysics Report dated December 13, 2011. A copy of this report is included in Appendix TT. A summary of the results is as follows:

- The Old Jarrow Well was measured to be 180 feet in total depth, with the bottom of the steel casing set at 32 feet below grade. The static water level at the time of the investigation was 65.0 feet below grade.
- Two (2) water producing zones were identified in the well. These zones were located at 102'-109' and 126'-128', respectively.
- One (1) water receiving zone was identified in the well at 152'-153'. The relation between the water producing zone and the water receiving zone indicates a downward vertical component of flow.

- In general, ARM indicated the observed fractures were most likely bedding plane partings. The water producing fractures have a predominate east-west strike direction, with a dip direction to the south (approximately). These data, in conjunction with the calculated direction of groundwater flow, suggest groundwater flows down-dip, perpendicular to strike. In general, this conclusion is consistent with the migration and distribution of groundwater contamination in the bedrock aquifer. The migration of contamination not perpendicular to strike may be the result of the pumping stresses placed on the aquifer.
- The results of the investigation did not identify any leakage around the steel casing, which suggests the presence of groundwater contamination is not the result of leakage from the contaminated shallow aquifer, but from transport through the water producing fractures.

7.6.4 Production Well Abandonment Activities

On December 2, 2011, J. Karp and Sons, Incorporated of Factoryville, Pennsylvania completed the abandonment of Old Jarrow Well. Well abandonment activities will be conducted in accordance with the regulations and guidelines presented in Chapter 7 of the PADEP's *Groundwater Monitoring Guidance Manual* dated December 1, 2001. These activities included the mixing of bentonite with water creating a pumpable grout. The well was pressure grouted with a tremie pipe from the bottom of the well to the top of well. Refer to Appendix UU for a copy of the Well Abandonment Form.

7.7 High Vapor Extraction Demonstration

On April 30, 2009 Pennsylvania Tectonics completed a high vapor extraction demonstration on MW-2s. Eldredge of West Chester, Pennsylvania provided the vacuum tanker truck, waste transportation and waste disposal services. The following information is provided

- The vacuum / tanker truck was configured to MW-2s.
- Magnehelic pressure gauges were installed on the remaining shallow groundwater monitoring wells (MW-1s, MW-3s, MW-4s, MW-5s and MW-6s).
- A vacuum was induced at MW-2s for eight (8) hours. Pressure reactions were monitored in each of the remaining shallow groundwater monitoring wells for the duration of the demonstration. The induced vacuum at MW-2s was also monitored.
- A sight glass on the tanker truck allowed for the visual inspection of the effluent generated from MW-2s. Initially the effluent was very silty with free product visible. The effluent eventually cleared but free product was still observed. A constant flow of water and product was observed during the vacuum activities. A total of 1,199 gallons of water and product was extracted from MW-2s. As such, MW-2s produced an average of 150 gallons per hour (2.5 gpm). Refer to Appendix VV for documentation associated with the disposal of the effluent generated from MW-2s. Please note the following:
 - The total effluent collected by Eldredge is reported as 2,335 gallons. This includes 1,199 gallons collected via the vapor extraction activities.
 - A total of 154 gallons of gasoline-impacted water was collected from a temporary poly tank staged onsite by Pennsylvania Tectonics.

- The remaining effluent was pumped from eighteen (18) 55-gallon drums of well development water, well purge water and drilling water staged onsite.
- The pressure readings from the gauge on the vacuum truck ranged from -55.0 to -59.0 kPa throughout the duration of the demonstration.
- Responses to the vacuum inducted at MW-2s were observed in each of the remaining shallow groundwater monitoring wells, with the exception of MW-6s. The highest response was observed in MW-4s. Pressure readings taken at MW-4s ranged from -0.63 to -1.23 kPa. MW-4s is located on the opposite side of the UST cavity from MW-2s. Since the UST cavity is backfilled with pea gravel, it is possible that a preferential pathway exists.
- Refer to Appendix WW for the field logs documenting the pressure readings from the monitoring wells and vacuum truck.

The results of the High Vapor Extraction Demonstration will be considered in determining the optimal remedial approach to address the soil and groundwater contamination present at the subject property.

8. SITE CONCEPTUAL MODEL / FINDINGS

A review of the site history indicates the subject property was the location of a gasoline filling station and automobile service garage since the early 1900s. The subject property was also the location of a Dodge dealership for an unknown period of time. These historical activities were conducted by the Lewis family. Most recently, the subject property was utilized as a gasoline filling station, automotive body shop and for storage. This filling station ceased retail operations in December 2003. Subsequently, the filling station was utilized in a limited capacity for the dispensing of gasoline to family members. Pennsylvania Tectonics pumped the residual gasoline from the storage tanks in May 2007, thereby ending the use of the site as a filling station. The automotive body shop ceased operations in August 2008. At the time of this report, a portion of the facility was utilized by Lohr Equipment as an equipment rental and welding shop. A private individual utilized the remainder of the facility for the storage and maintenance of snowmobiles. Utilities that serve the subject property include electricity provided by PPL and sewer service is provided by the Scott Township Sewer & Water Authority. Potable water is provided to the subject property via a private well located on the adjacent "Lewis Homestead" property. The Site Conceptual Model is as follows:

- The subject property is located along the western side of a southwest plunging syncline containing the Scranton coal beds. The site is situated in a Scott Township, Lackawanna County, Pennsylvania. Historically, the area surrounding the subject property consisted of sparse residential development and vast areas of agricultural and forested land. Since the 1950s, the properties surrounding the subject property have been developed for residential purposes.
- No public water supply is available in the vicinity of the subject property. The properties in the vicinity of the subject property rely on private wells for potable water. Pennsylvania Tectonics has completed a well inventory and completed sampling activities on all surrounding private wells. POET systems have been installed on all private wells (27 systems) that have exhibited positive compound concentration. The results of the POET system and private well sampling activities indicate all potential groundwater receptors have been identified and mitigated through the use of engineering controls (i.e. POETs).
- The subject property is underlain by Quaternary Age Wisconsin Till (Qwt). Braun (2006) describes this till as glacial or resedimented till, texturally a diamict, with a clayey, silty or sandy matrix depending on the local source bedrock. This till exhibits poor to multimodal sorting and is unstratified to crudely stratified with a clast fabric. According to Braun, the thickness of the till within the study area may be up to 30 feet. However, the thickness of the till observed during site characterization drilling activities ranged from 15.0 feet to 40.0 feet below grade. A shallow groundwater aquifer has been identified in the unconsolidated geologic unit. The depth to the shallow aquifer ranges from ~15.0 – 20.0 feet below grade. This aquifer expresses semi-confined conditions, as the static water levels are higher than the depth of the water bearing zone.
- A fractured bedrock groundwater aquifer has been identified beneath the subject property and in the area surrounding the subject property. This aquifer is composed of interbedded sandstone and shales.
- In December 2006, Ms. Amy Jarrow, a nearby resident, reported odors in the drinking water at her residence (currently the Jones residence). The Jarrow residence is located approximately 200 feet southeast of the subject property. The odors were reported to the PADEP. The PADEP collected one (1) drinking water sample from the Jarrow well and reported an MTBE

concentration of 40.0 ug/l. The detection of this contamination initiated an investigation at the subject property to determine the source. The contaminants of concern include Leaded Gasoline and Unleaded Gasoline Parameters.

- Site Characterization Activities were conducted at the subject property between February 2008 and June 2016. The site characterization activities included the installation of forty (40) test borings; the collection / analysis of fifty-seven (57) soil samples; the completion of a fracture trace analysis; the installation of seventeen (17) shallow groundwater monitoring wells; the installation of ten (10) bedrock groundwater monitoring wells; the completion of seventeen (17) groundwater sampling events; the collection / analysis of eight (8) rounds of surface water samples; the collection / analysis drinking water samples from of seventy-three (73) surrounding properties; the completion of aquifer testing (slug tests and pumping test); the installation of six (6) soil vapor monitoring points; and, the collection / analysis of five (5) rounds of soil vapor samples.
- The results of the Site Soils Investigation have identified soil contamination in excess of the applicable Residential, Used Aquifer Statewide Health Standard MSCs in the vadose zone and smear zone at the subject property and neighboring Former Peregrim Property.
- The results of the Site Groundwater Investigation have identified groundwater contamination in excess of the applicable Residential, Used Aquifer Statewide Health Standard MSCs in the shallow and bedrock groundwater aquifers at the subject property and neighboring properties. Separate Phase Liquid (SPL) has been identified in MW-2s and MW-3s at the subject property.
- The results of the Vapor Intrusion Investigation have identified a potentially complete soil vapor or groundwater vapor intrusion pathway at the Jones / Former Jarow Property.
- In addition to the site characterization activities, Pennsylvania Tectonics completed interim remedial actions including the excavation and disposal of 595.88 tons of petroleum impacted soil at the subject property; collected twelve (12) attainment samples from the impacted soil excavation; completed the closure, via removal, of one (1) 1,000-gallon used motor oil UST at the subject property; completed the installation of Point of Entry Treatment Systems (POETs) at twenty-seven (27) neighboring properties; completed the collection / analysis of nineteen (19) rounds of POET samples from the treatment systems; completed the replacement of the private groundwater production well located at the Jarow Property; and, completed a High Vapor Extraction Demonstration
- A Soil Vapor Extraction Pilot Test was conducted in December 2014 to determine if Soil Vapor Extraction is a viable remedial alternative at the subject property. Based on the field readings collected during the SVE testing at multiple wells, Soil Vapor Extraction is not a feasible remedial option for the subject property. Refer to Section 10 of this report for a discussion and details regarding the December 2014 Soil Vapor Extraction Pilot Test.

In summary, soil contamination, in excess of current Residential Statewide Health Standards, has been identified at the subject property. Groundwater contamination, in both the shallow and deep aquifers, has been identified onsite and on surrounding properties at concentrations exceeding the applicable standards. Free product has been observed in MW-2s and MW-3s. The presence of free product has been addressed via hand-bailing and the collection of product using passive skimmers. The results of the soil-gas evaluation indicate a potentially complete soil-vapor pathway or groundwater-vapor pathway exists on the subject property.

9. FATE & TRANSPORT ANALYSIS

9.1 General

In accordance with 25 Pennsylvania Code §245.310(a)23, a Fate & Transport (F&T) Model is required. These F&T analyses don't necessarily have to be a highly complex computer simulation. These analyses can actually be a qualitative empirical or simple conceptual model. Based on the information generated as part of the site characterization activities, and in accordance with the scope of work, Pennsylvania Tectonics has chosen to complete a qualitative fate and transport model using Quick Domenico. Matrix Environmental Technologies, Inc. of Orchard Park, NY worked with Pennsylvania Tectonics on the completion of this model.

The completion of any F&T analysis is initiated with the collection of geologic, hydrogeologic and chemical data. The geological data was gathered via the review of available literature and the installation of numerous test borings and monitoring wells at the subject property. The chemical data was collected via the analysis of the soil and groundwater samples. Hydrogeologic data was collected via the completion of a review of private well drilling information; the completion of a fracture trace analysis; the loggings of numerous shallow and deeper groundwater monitoring wells; the completion of aquifer testing (slug tests, step pump test, constant rate pump tests); the collection and analysis of groundwater elevations from private wells; and, the completion of Borehole Geophysics.

9.2 Preliminary Review of Soil-Related Contamination

The presence of soil contamination at the subject property was documented via the completion of the initial site characterization activities conducted in March 2008. Subsequent test boring / soil sampling programs have identified soil contamination, in excess of applicable Residential Statewide Health Standards, in the Vadose Zone, the Smear Zone and the Permanently Saturated Zone.

- The source of the contamination appeared to be loose piping beneath Dispenser #2, the southern-most dispenser. The soil contamination migrated vertically and horizontally from this point.
- The results of the test boring program have identified soil contamination in excess of applicable standards in the Vadose Zone. Source reduction activities conducted in April 2008 (~60 tons) and September 2010 (426.67 tons) removed 486.67 tons of contaminated soil from the subject property. The completion of additional source reduction was limited by the presence of a state-owned roadway, site structures and a private driveway.
- The distribution of petroleum-related contamination in the Smear Zone was documented near the source and hydrologically downgradient of the source. The Smear Zone is impacted via the seasonal fluctuation of impacted groundwater.
- Soil contamination was identified in the three (3) samples collected from the Permanently Saturated Zone. This contamination is treated as a groundwater issue.
- Soil contamination in the Vadose Zone and Smear Zone has resulted in a complete Soil-Vapor Exposure Pathway at the subject property. This Soil-Vapor Exposure Pathway is associated with the neighboring Jones residence.

In summary, a review of the soil analytical data indicates the soil contamination has been adequately delineated. However, the proximity of State Route 347 to the southwest and an absence of offsite access on the opposite side of State Route 347 has resulted in an area of soil delineation that has not been delineated. Furthermore, the

Smear Zone sample collected from TB-38 expressed a Benzene concentration in excess of the applicable MSC. No active soil remediation is currently being proposed, as the residual soil contamination may be addressed via site-specific closure.

9.3 Review of Groundwater-Related Contamination

Based on the long record of physical and chemical groundwater measurements at the site, the F&T analysis performed consists of an evaluation of the groundwater data for spatial and temporal trends. All petroleum-related groundwater impacts have been spatially delineated to the Residential Statewide Health Standard MSCs. To that end, the following is provided:

- The presence of groundwater contamination has been identified in the shallow and deep aquifers present beneath the subject property. The shallow aquifer is present in the overlying glacial till and is under semi-confined conditions. The deep aquifer is associated with a fracture flow regime within the interbedded sandstones and shales of the Catskill Formation. The depths to water bearing fractures vary throughout the study area.
- Based a review of groundwater isopleth maps, one (1) contaminant plume has been identified in the shallow groundwater aquifer and one (1) contaminant plume has been identified in the deep aquifer.
- The direction of groundwater flow has been calculated for the shallow and deep aquifers. The prominent direction of groundwater flow is to the southeast. The distribution of contaminants in the groundwater supports this flow direction.
- The bedrock aquifer located beneath the study area is characterized as a fractured flow regime contained within the interbedded sandstone and shale of the Catskill Formation. A review of background groundwater level vs. time data indicates a portion of the wells monitored were influenced by regional pumping activities, while others were not. As such, all fractures are not interconnected. The aquifer is neither homogeneous nor isotropic
- A review of the groundwater analytical data indicates the groundwater contamination has been adequately delineated.

Groundwater contamination has been identified in the shallow and deep aquifers on the subject property and properties located hydrologically downgradient of the subject property. This contamination has migrated from the subject property over time. A temporal trend analysis was performed for all compounds at wells that have expressed concentrations in excess of standard within the last four (4) quarters. These graphs are included in Appendix XX. A linear regression best-fit trend line was fit to the time-series data on each graph using the trend line function in MS Excel. The following trends have been identified based on a review of the time-series graphs:

Table 9-1
Lewis Brothers Garage Property
Summary of Temporal Trend Analyses

Well #	Compound	Trend	Concentration
MW-1s	MTBE	Decreasing	Below MSC
MW-2s	MTBE	Decreasing	Above MSC
MW-2s	Benzene	Decreasing	Above MSC
MW-2s	Ethylbenzene	Decreasing	Above MSC
MW-2s	Toluene	Decreasing	Above MSC
MW-2s	Naphthalene	Decreasing	Above MSC
MW-2s	Xylenes	Decreasing	Below MSC
MW-2s	1,2,4-TMB	Decreasing	Above MSC
MW-2s	1,3,5-TMB	Decreasing	Below MSC
MW-3s	MTBE	Decreasing	Above MSC
MW-3s	Benzene	Decreasing	Above MSC
MW-3s	Ethylbenzene	Decreasing	Above MSC
MW-3s	Cumene	Stable	Below MSC
MW-3s	Toluene	Decreasing	Above MSC
MW-3s	Naphthalene	Decreasing	Above MSC
MW-3s	Xylenes	Decreasing	Above MSC
MW-3s	1,2,4-TMB	Decreasing	Above MSC
MW-3s	1,3,5-TMB	Stable	Above MSC
MW-4s	MTBE	Increasing	Above MSC
MW-4s	Benzene	Decreasing	Above MSC
MW-4s	1,2,4-TMB	Decreasing	Above MSC
MW-4s	1,3,5-TMB	Decreasing	Below MSC
MW-5s	MTBE	Increasing	Below MSC
MW-6s	Benzene	Decreasing	Below MSC
MW-10s	MTBE	Increasing	Above MSC
MW-10s	Benzene	Increasing	Above MSC
MW-10s	Toluene	Increasing	Above MSC
MW-10s	1,2,4-TMB	Increasing	Above MSC
MW-10s	1,3,5-TMB	Increasing	Below MSC
MW-11s	MTBE	Stable	Above MSC
MW-11s	Benzene	Decreasing	Above MSC
MW-11s	Ethylbenzene	Decreasing	Below MSC
MW-11s	Naphthalene	Decreasing	Below MSC
MW-11s	1,2,4-TMB	Decreasing	Above MSC
MW-11s	1,3,5-TMB	Decreasing	Below MSC

Table 9-1 (cont.)
Lewis Brothers Garage Property
Summary of Temporal Trend Analyses

Well #	Compound	Trend	Concentration
MW-12s	MTBE	Increasing	Above MSC
MW-12s	Benzene	Increasing	Above MSC
MW-2D	Benzene	Decreasing	Below MSC
MW-2D	1,2,4-TMB	Decreasing	Below MSC
MW-7D	MTBE	Decreasing	Below MSC
MW-7D	Benzene	Decreasing	Below MSC
MW-12D	Benzene	Stable	Below MSC
OW-4	MTBE	Decreasing	Below MSC

9.4 Summary of the Fate & Transport Model Results

A fate and transport analysis of contamination in the overburden and bedrock aquifer has been completed at the site. The analysis was based on site-specific geologic, hydrogeologic, and laboratory analytical data. A quantitative fate and transport model was generated using the Quick Domenico (QD) model spreadsheets developed by the PADEP to evaluate the potential migration of dissolved phase VOCs in the shallow overburden aquifer at the site. The site-specific model was developed based on groundwater data collected over time for nine (9) contaminants of concern (COCs). Parameters which are specific to the aquifer or the site were obtained directly from laboratory analytical data or field measurements.

The solution of the differential equation for solute transport requires that certain conditions are met. The four (4) critical assumptions of the QD model are satisfied by the site conditions:

- **Aquifer properties are homogeneous and isotropic.** The QD model was applied to the overburden, not the fractured bedrock zone. Porosity and hydraulic conductivity are assumed to be spatially uniform across the site.
- **Groundwater flow field is homogeneous and unidirectional.** Groundwater flow direction is consistently to the southeast, which is to be expected based on the site topography and local drainage patterns. The flow field is not radial, convergent, or divergent. Although there are two distinct gradients present across the study area, an average value was used to characterize overall conditions. Uncertainty in the hydraulic gradient is accounted for by varying the hydraulic conductivity.
- **Groundwater flow is in steady state.** The hydraulic gradient and groundwater velocity are constant over time.

- **Contaminant source remains constant over time.** Although limited remedial excavations were completed in 2008 and 2010, petroleum-impacted soil remains in the vicinity of the former dispenser islands and serves as a continual source of VOCs in groundwater. As indicated in the chart below, total VOC concentrations in MW3s have not decreased significantly since groundwater monitoring began in 2008.

After calibration, the QD model was used to predict the maximum distance each contaminant plume would travel in 30 years using the U/R MSCs as the end point. Two predictive models were run for each COC. Model details, input and output data are included in Appendix YY.

**Table 9-2
Lewis Brothers Garage Property
Summary of Fate & Transport Results – Overburden Aquifer**

CONTAMINANT	U/R MSC (mg/L)	SCENARIO	K (feet/day)	α_x (feet)	λ (1/day)	PLUME LENGTH (feet)
BENZENE	0.005	A	1.03	44.7	0.00141	696
		B	1.03	4.47	0.00139	693
MTBE	0.020	C	1.03	44.7	0.0012	471
		D	1.03	4.47	0.0015	465
ETHYLBENZENE	0.700	E	1.03	44.7	0.00045	204
		F	1.03	4.47	0.00065	196
CUMENE	0.840	G	1.03	44.7	0.00009	0
		H	1.03	4.47	0.00005	0
NAPHTHALENE	0.100	I	1.03	44.7	0.0004	205
		J	1.03	4.47	0.00036	205
TOLUENE	1.000	K	1.03	44.7	0.002	183
		L	1.03	4.47	0.0016	182
XYLENES	10.000	M	1.03	44.7	0.00037	113
		N	1.03	4.47	0.00048	111
1,2,4-TMB	0.015	O	1.03	44.7	0.0002	371
		P	1.03	4.47	0.00005	399
1,3,5-TMB	0.013	Q	1.03	44.7	0.00055	368
		R	1.03	4.47	0.0005	355

According to the model, the plume will reach a maximum distance of 696 feet downgradient in 30 years. The edge of the modeled plume is located on the Konosky property downgradient of MW16S and near to MW15S. The model matches the selected field data well; however, the model is clearly conservative as groundwater concentrations in MW16S have remained non-detect since monitoring began in 2008. The model indicates that the plume has reached steady state and therefore concentrations should remain stable over time. The existing monitoring well network is sufficient to delineate the entire modeled plume area in the overburden downgradient of the source.

The modeled plume does intersect an unnamed tributary to Hull Creek at a distance of approximately 257 feet from the source area as shown in Figure 1 in Appendix YY. However, groundwater elevation data obtained from monitoring wells close to stream sampling points SW-1 and SW-2 indicate that the tributary is not a gaining system and that surface water is likely feeding into the local aquifer. As a result, contamination from the site is not entering the stream and a quantitative surface water model such as SWLOAD is not applicable. A stream

sampling program has been in place since 2008, and six (6) surface water samples are collected on a quarterly basis and submitted for laboratory analysis of Unleaded Gasoline parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems. The analytical data indicates that concentrations in the stream remain below laboratory quantification limits for all compounds

The bedrock aquifer has been impacted by vertical migration of dissolved phase contaminants as evidenced by elevated concentrations in MW2D and nearby potable bedrock wells. A pumping test was completed at the site in October 2010 in which it was established that pumping on MW11D resulted in slight changes in groundwater elevations in MW10D and MW12D, but no influence was observed in water levels in MW2D. The low yield characteristics of MW2D combined with the lack of response to pumping from local potable or bedrock monitoring wells indicates that it is in limited communication with the local bedrock fracture system. Subtle changes in elevations in MW11D were observed in response to local pumping from potable wells. No drawdown was observed in the shallow monitoring wells. For further details refer to the *Final Site Characterization Report* dated June 19, 2013 prepared by Pennsylvania Tectonics, Inc.

The vertical gradient in the source area as determined using groundwater elevation data from MW2S and MW2D ranges from approximately 0 feet/foot to 0.060 feet/foot with an average value of 0.023 feet/foot, which is less than the local horizontal gradient of 0.047 feet/foot. The vertical gradient is more pronounced outside of the source area, with average gradients of 0.57, 0.39, and 0.33 feet/foot in MW11D, MW12D, and MW13D respectively. It therefore appears that contamination is more likely to flow into the bedrock aquifer downgradient of the source area than in the source area itself.

10. REVIEW OF REMEDIAL OPTIONS

10.1 General

For the contamination relevant to the Chapter 245 storage tank systems, the following sections provide a summary of the remedial alternatives considered to address the elevated concentrations of target compounds present at the subject property. In general, the completion of the site characterization activities has revealed the following:

- **Site Soils:** Site soils have been impacted at concentrations exceeding applicable standards. Soil contamination has been identified in the vadose zone and the smear zone at the subject property and adjacent Former Peregrim Property. The completion of source reduction activities have failed to remediate the soils to applicable standards due to physical limitations to excavation including PA Route 347 and the onsite structure.
- **Shallow Groundwater Aquifer:** The shallow groundwater aquifer has been impacted at concentrations exceeding the applicable standards. Furthermore, the groundwater contamination has migrated beyond the point-of-compliance and has also resulted in impacts the bedrock aquifer.
- **Bedrock Groundwater Aquifer:** The bedrock groundwater aquifer has been impacted at concentrations exceeding applicable standards. However, the aerial extent of the bedrock aquifer plume has been delineated and is limited. Currently, impacted domestic wells have been addressed via the installation and maintenance of POET systems.
- **Vapor Intrusion:** The results of the Vapor Intrusion Investigation have identified a potentially complete soil vapor or groundwater vapor intrusion pathway at the Jones / Former Jarrow Property.

10.2 Monitored Natural Attenuation

Natural subsurface processes such as dilution, volatilization, biodegradation, adsorption, and chemical reactions with subsurface materials are allowed to reduce contaminant concentrations to acceptable levels. Natural attenuation is not a "technology" per se, and there is significant debate among technical experts about its use at hazardous waste sites. Consideration of this option usually requires modeling and evaluation of contaminant degradation rates and pathways and predicting contaminant concentration at downgradient receptor points, especially when the plume is still expanding/migrating. The primary objective of site modeling is to demonstrate that natural processes of contaminant degradation will reduce contaminant concentrations below regulatory standards or risk-based levels before potential exposure pathways are completed. In addition, long term monitoring must be conducted throughout the process to confirm that degradation is proceeding at rates consistent with meeting cleanup objectives.

Compared with other remediation technologies, natural attenuation has the following advantages:

- Less generation or transfer of remediation wastes;
- Less intrusive as few surface structures are required;
- May be applied to all or part of a given site, depending on site conditions and cleanup objectives;
- Natural attenuation may be used in conjunction with, or as a follow-up to, other (active) remedial measures; and
- Overall cost will likely be lower than active remediation.

Limitations include:

- Data used as input parameters for modeling need to be collected;
- Natural attenuation is not appropriate where imminent site risks are present;
- Contaminants may migrate before they are degraded;
- Institutional controls may be required;
- Long term monitoring and associated costs;
- Longer time frames may be required to achieve remediation objectives, compared to active remediation;
- The hydrologic and geochemical conditions amenable to natural attenuation are likely to change over time and could result in renewed mobility of previously stabilized contaminants and may adversely impact remedial effectiveness.

The suitability of Monitored Natural Attenuation to address the shallow groundwater aquifer is low since it has been documented that groundwater contamination has already migrated offsite and has migrated vertically, impacting the bedrock groundwater aquifer.

10.3 Soil Excavation

The excavation of contaminated soil is an ex-situ technology that includes the excavation of the contaminated soils with offsite disposal or treatment at a properly permitted facility. In some instances (usually with larger quantities of contaminated soil), the excavated material is treated onsite. The area of excavation is determined via the review of soil analytical data generated during the site characterization activities, in conjunction with the completion of field screening during the actual excavation process. Soil samples, collected in accordance with PADEP guidelines and regulations, are collected for analysis upon the completion of the excavation activities. The soil sample results are utilized to demonstrate the attainment of a selected cleanup standard. The excavation process would remediate the soils in the Smear Zone (i.e. the periodically saturated soils located above the Permanent Zone of Saturation). The open cavity would allow for the pumping of any impacted groundwater or the application of a remedial solution such as bioremediation solutions or oxygen releasing compounds (ORC). The removal of the contaminated soils would also eliminate the contaminant source material, thereby reducing groundwater contamination over time.

Compared with other remediation technologies, soil excavation with groundwater remediation has the following advantages:

- Low construction costs as compared to other technologies;
- Soil contamination is removed rapidly and attainment is demonstrated in a short period of time in the form of laboratory analytical results;
- No need to complete additional test boring program to verify the success of the remediation;
- No engineering costs, capital costs or operation and maintenance costs;
- Site disruption limited depending the extent of the work;
- May be applied to all or part of a given site, depending on site conditions and cleanup objectives;
- Will result in the remediation of the soil without the use of other active technologies.

Limitations include:

- Not applicable to larger sites where in-situ remediation of soil and / or groundwater become more cost effective;
- May not immediately remediate the groundwater to levels below the desired cleanup standards;

- Disruption of contaminated soils and groundwater may result in the limited migration of groundwater contamination away from the source.
- Excavation may be limited due to the presence of physical obstacles such as site structures, roadways and the proximity to neighboring properties and improvements. This is the case at the subject property.

The suitability of soil excavation is low due to the physical limitations present.

10.4 Soil Vapor Extraction

Soil vapor extraction (SVE) is an in-situ unsaturated (vadose) zone soil remediation technology in which a vacuum is applied to the soil to induce the controlled flow of air and remove volatile and some semivolatile contaminants from the soil. The gas leaving the soil may be treated to recover or destroy the contaminants, depending on local and state air discharge regulations. Vertical extraction vents are typically used at depths of 1.5 meters (5 feet) or greater and have been successfully applied as deep as 91 meters (300 feet). Horizontal extraction vents (installed in trenches or horizontal borings) can be used as warranted by contaminant zone geometry, drill rig access, or other site-specific factors.

Compared with other remediation technologies, soil vapor extraction has the following advantages:

- In-situ remediation, therefore less generation or transfer of remediation wastes (although vapors need to be remediated before discharge to the atmosphere);
- Once the system is installed, little to no disruption of day-to-day site operations;
- May be applied to all or part of a given site, depending on site conditions and cleanup objectives;
- May be used in conjunction with, or as a follow-up to, other remedial measures such as Monitored Natural Attenuation, and;
- May result in the remediation of the shallow groundwater without the use of other active technologies.
- The results of a High Vapor Extraction Demonstration conducted at the subject property have suggested that SVE may be a viable option for the site.
- Can be a useful remedial approach at sites where physical imitations restrict the excavation of soils, such as at the subject property.

Limitations include:

- May not completely remediate the shallow groundwater resulting in the need for additional groundwater remediation activities or a site-specific closure on the groundwater;
- Engineering costs, construction costs, capital costs and operation and maintenance (O&M) costs are generally high;
- Due to the small soil contaminant plume at the subject property, the high engineering costs, construction costs, capital costs and O&M costs will result in a high unit cost for soil remediation as compared to other options. However, these costs may be necessary in the event the site-specific closure of the soils is not agreeable to the PADEP;
- Need to complete additional test boring program to verify the success of the remediation in soil;
- Longer time frames to achieve remediation objectives for soil, as compared to the excavation option.

The suitability of soil vapor extraction was further evaluated via the completion of an SVE Pilot Study in December 2014. The results of this pilot study, which are summarized in Section 10.9, suggest SVE is not a feasible remedial option for the subject property.

10.5 Air Sparging Coupled with Soil Vapor Extraction

Air sparging, which would involve the injection of air to expedite the volatilization of the contaminants, is often associated with soil vapor extraction. In general, the soil vapor extraction system is designed as indicated above in Section 10.4. The air sparge points would be installed into the shallow groundwater table, resulting in the injection of air and the remediation of the shallow groundwater contamination in concert with the soil contamination.

Compared with other remediation technologies, air sparging coupled with soil vapor extraction has the following advantages:

- In-situ remediation, therefore less generation or transfer of remediation wastes (although vapors need to be remediated before discharge to the atmosphere);
- Once the system is installed, little to no disruption of day-to-day site operations;
- May be applied to all or part of a given site, depending on site conditions and cleanup objectives;
- Site may benefit from the remediation of residual soil contamination, along with the shallow groundwater. The remediation of the residual soil contamination would eliminate the potential for leaching of contaminants from the soil into the shallow aquifer.

Limitations include:

- May not completely remediate the shallow groundwater resulting in the need for additional groundwater remediation activities or a site-specific closure on the groundwater;
- The site characterization activities have indicated that the shallow groundwater aquifer is under semi-confined conditions, meaning there exists an aquitard or aquiclude that may limit the effectiveness of the air sparging process;
- Engineering costs, construction costs, capital costs and operation and maintenance (O&M) costs are generally high. Due to the aerial extent of the groundwater plume, these higher costs may be justified at the subject property;
- Due to the small soil contaminant plume at the subject property, the high engineering costs, construction costs, capital costs and O&M costs will result in a high unit cost for remediation as compared to other options;
- Need to complete additional test boring program to verify the success of the remediation;
- Longer time frames to achieve remediation objectives, as compared to the excavation option.

The suitability of air sparging with soil vapor extraction may be low based on the results of the SVE Pilot Study summarized in Section 10.9.

10.6 Groundwater Pump and Treat

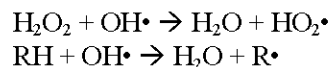
Aboveground treatment of groundwater is generally accomplished by bringing the groundwater to the surface where it can be treated (i.e., pump and treat). The groundwater is then either disposed, or discharged into the subsurface. Prior to the discharge into the subsurface, the groundwater must be run through an activated carbon treatment system or air stripper capable of removing the petroleum compounds to non-detect levels.

In addition, remediation by pump and treat is a slow process and cleanup times are often very long. System design, such as pumping rate, is one factor to consider when estimating cleanup times. A system pumping at very low rates may have a very long predicted cleanup time, while one operating at higher rates may have a shorter predicted cleanup time. Also, estimating the cleanup time is difficult and is subject to a large number of uncertainties; typical methods used to calculate cleanup time often result in underestimates because they neglect processes that can add years to the cleanup.

The suitability of groundwater pump and treat alone at this site is low due to the fact that this remedial technology is a slow process and cleanup times are often very long. However, groundwater pump and treat may be a viable technology in concert with some form of total fluids extraction.

10.7 Chemical Oxidation

The chemical oxidation process involves free radical generation and direct oxidation. The contaminants are treated in-situ and are converted to innocuous and/or naturally occurring compounds (i.e. H₂O, CO₂, O₂, halide ions). As a side benefit, aerobic biodegradation of contaminants can benefit from the increase in dissolved oxygen released through peroxide degradation. The oxidation of contaminants involves a variety of competing reactions as follows (where RH is the contaminant of concern):



Typically, a 5% hydrogen peroxide solution would effectively reduce the contaminant concentrations to levels below the PADEP residential used aquifer Statewide Health Standards.

In-situ chemical oxidation (ISCO) involves the addition of chemical reagents into groundwater via injection wells. The reagents attack the petroleum contamination by chemical oxidation which breaks the organic compounds down into smaller molecules that are innocuous in nature. The reagents may be hydrogen peroxide or permanganate which are effective oxidizing agents. The process involves free radical generation and direct oxidation. The oxidation process is fast acting, taking several days to a few weeks. The contaminants are treated in situ and are converted to innocuous and/or naturally occurring compounds (i.e. H₂O, CO₂, O₂, halide ions).

The effectiveness of ISCO may be limited by low soil permeability, subsurface heterogeneities, and highly alkaline soils where carbonate ions are free radical scavengers. Low soil permeability may be overcome with the use of hydraulic fracturing of the subsurface geology or an increase in the density of injection points. The reagent may also be consumed by natural organic matter or by reduced inorganic before effectively treating the contamination of concern. To perform the chemical oxidation, a pH between 2 and 4 is preferable, but not necessary. If necessary, the pH of the groundwater may be lowered by using acetic acid to achieve the desired range.

The potential side effects of ISCO remediation include evolution of gas, increase in temperature, resolubilization of reduced metals and reduction in biomass. Due to a possible increase in pressure, there is a potential for an explosion if the peroxide is added at a concentration greater than 10% by weight. In addition, ISCO activities are generally not recommended at sites that have active UST systems due to the potential for explosion. The potential for the use of ISCO alone at the site is low to moderate due to the relatively low costs of the remediation solutions and injections, the lack of capital and O&M costs and the anticipated timeframes. Although not currently in use, the removal of the current UST systems would be recommended prior to the initiation of any ISCO injections. In addition, this technology alone would not address the vadose zone contamination.

10.8 Oxygen Injection

The injection of pure oxygen into groundwater using oxygen generators is a patented groundwater remediation process (U.S. Patent No. 5,874,001) developed by Matrix Environmental Technologies, Inc. (Matrix). It is a proven remediation technique for sites in which physical remediation processes (such as air sparging) are no longer effective or efficient, thus a biological process is more favorable. Oxygen injection rapidly enhances the biodegradation of organic contaminants such as petroleum hydrocarbons and most chlorinated solvents biodegradable under aerobic conditions. The system produces 95% oxygen, which is injected at flow rates and pressures to achieve breakout only. The primary mechanisms of oxygen transport are advection and dispersion, the same mechanisms that facilitated contaminant migration. The dissolution of nearly pure oxygen at a controlled rate has resulted in measured dissolved oxygen concentrations up to 40 mg/L. Oxygen injection is suitable for shallow groundwater conditions since there is no generation of hazardous vapors eliminating the need for vapor control. Biodegradation of MTBE and TBA, fuel additives that degrade slowly or not at all under anaerobic conditions, has been optimized at many sites.

Oxygen injection provides a very efficient process to stimulate the aerobic biodegradation of groundwater contaminants. Given the aerial extent of the contaminant plume, oxygen injection is a viable remedial option for the subject property. This remedial approach would not address the residual vadose zone soil contamination. Furthermore, a pilot study would be recommended to evaluate if the distribution of dissolved oxygen in the shallow aquifer would be sufficient to remediate the impacted groundwater.

10.9 Soil Vapor Extraction Pilot Study

10.9.1 General

In accordance with the scope of work, a Soil Vapor Extraction (SVE) Pilot Study was conducted at the subject property to determine the feasibility of the SVE technology as a remediation technique. To achieve this goal, Pennsylvania Tectonics entered into a professional partnership with Matrix Environmental Technologies, Inc. of Orchard Park, NY to complete the SVE Pilot Study. This SVE Pilot Study included the installation of three (3) soil vapor extraction points, four (4) soil vapor extraction monitoring points and the completion of a single day test.

10.9.2 Rationale for the Need for SVE Extraction Wells and Observation Points

Based on a review of existing Site information, and as indicated in the scope of work, Pennsylvania Tectonics proposed the installation of three (3) SVE extraction wells and four (4) SVE observation points at the subject property. The installation of these extraction wells and observation points was deemed necessary for the following reasons:

- The presence of existing monitoring wells in the area of known soil contamination was limited to MW-2s, MW-3s and MW-4s. The use of these monitoring wells for SVE pilot testing may produce inaccurate results as only a small length of screen extends into the vadose zone.
- One of the goals of the SVE Pilot Test was to determine the vacuum radius of influence (ROI). Since only three (3) existing wells are located in proximity to the known soil contamination, these points alone would be inadequate to complete the pilot test (in the event they were properly constructed for this purpose).

- A review of the PADEP comments to the scope of work indicated the PADEP suggested the installation of wells constructed specifically for SVE. Pennsylvania Tectonics concurred with this suggestion.

10.9.3 Installation of SVE Extraction Wells and Observation Points

Between November 24, 2014 and December 3, 2014, Pennsylvania Tectonics completed the field activities associated with the installation of three (3) soil vapor extraction points and four (4) soil vapor extraction monitoring points as part of a Soil Vapor Extraction Pilot Study at the subject. This work was completed to determine if Soil Vapor Extraction is a viable remedial alternative for the subject property. Refer to Appendix A for a map depicted the soil vapor extraction points and soil vapor extraction monitoring points (Figure 20).

The soil vapor extraction wells and soil vapor extraction monitoring wells were completed utilizing either hollow stem auger drilling techniques. Each well was constructed by lowering PVC screen (0.020 slot) and PVC riser into the borehole. A sand pack consisting of No. 1 Morie sand was placed within the screened interval. A bentonite seal, consisting of bentonite pellets, was placed above the sand pack. Each well was completed with a flush grade manway with a locking inner cap. Refer to Appendix ZZ-1 for copies of the Well Logs associated with the well installations and to Appendix ZZ-2 for the Well Construction Details. A summary of the well construction information is provided in Table 10-1, as follows:

Table 10-1
Lewis Brothers Garage Property
Well Construction Information
Soil Vapor Extraction Pilot Study Wells

Well #	Depth	Screen Size	Screen Interval	Sand Size	Sand Interval
SVE-1	15.0'	0.020 Slot	15.0' – 5.0'	No. 1	15.0' – 3.5'
SVE-2	15.0'	0.020 Slot	15.0' – 5.0'	No. 1	15.0' – 3.5'
SVE-3	15.0'	0.020 Slot	15.0' – 5.0'	No. 1	15.0' – 3.5'
SVE OW-1	15.0'	0.020 Slot	15.0' – 5.0'	No. 1	15.0' – 3.5'
SVE OW-2	15.0'	0.020 Slot	15.0' – 5.0'	No. 1	15.0' – 3.5'
SVE OW-3	15.0'	0.020 Slot	15.0' – 5.0'	No. 1	15.0' – 3.5'
SVE OW-4	15.0'	0.020 Slot	15.0' – 5.0'	No. 1	15.0' – 3.5'

Pennsylvania Tectonics in conjunction with Matrix Environmental Technologies completed the SVE Pilot Study on December 3, 2014. The results of the Soil Vapor Extraction Pilot study suggest Soil Vapor Extraction is not a viable remedial option for the subject property. Refer to Appendix ZZ-3 for a copy of the Matrix report summarizing the results of the Soil Vapor Extraction Pilot Study.

10.10 Summary

The review of the available remedial options, in conjunction with the SVE/AS Pilot Test results, indicates the subject property is geologically and hydrogeologically complex. While the Pilot Test suggests SVE/AS may not be a suitable remedial alternative, Pennsylvania Tectonics is currently completing a Remedial Alternatives Review to address the residual soil and groundwater contamination present. The resulting remedial approach may be a combination of available and emerging technologies. The results of this Remedial Alternatives Review will be included in the forthcoming RAP.

11. SUMMARY

Based on the information contained in this report, and as outlined in the Site Conceptual Model / Findings section, Pennsylvania Tectonics is pleased to provide the following:

1. In accordance with 25 Pennsylvania Code §245.311(a), a Remedial Action Plan (ARP) is to be submitted to the PADEP within forty-five (45) days of the date of the submission of this Final SCR. However, given the complexity of this site and in accordance with other similar projects recently completed, Pennsylvania Tectonics suggests the RAP be submitted within forty-five (45) days of the approval of this FSCR by the PADEP.
2. Pennsylvania Tectonics will complete quarterly groundwater monitoring and quarterly POET monitoring while the FSCR is being reviewed by the PADEP.

12. REFERENCES

The following references were utilized in the preparation of this report:

Berg, T.M. and Dodge, C.M., 1980, *Atlas of preliminary geologic quadrangle Maps of Pennsylvania*, Pennsylvania Topographic and Geologic Survey, Harrisburg, 637 p.

Braun, Duane D., *Surficial Geology of the Scranton 7.5-Minute Quadrangle, Lackawanna, Pennsylvania*, Open-File Report OFSM-06-07.0, Pennsylvania Geological Survey, 2006, 17 pgs.

Davis, Drew K., 1989, *Groundwater Resources of Pike County, Pennsylvania*, Pennsylvania Topographic and Geologic Survey, Harrisburg, Water Resources Report W 65, 63 p.

Driscoll, F.G., 1986, *Groundwater and Wells* (2nd edition): St. Paul, MN, US; Filter / Johnson Screens, 1089 p.

Eckenrode, Joseph J., *Soil Survey of Lackawanna and Wyoming Counties, Pennsylvania*, United States Department of Agriculture, March 1982.

Geyer, A.R., and Wilshusen, J.P., 1982, *Engineering Characteristics of the Rocks of Pennsylvania*, Pennsylvania Topographic and Geologic Survey, Harrisburg, Environmental Geology Report EG 1, 300 p., (2nd Edition).

United States Department of the Interior, Fish and Wildlife Services, National Wetlands Inventory Maps, 7.5-Minute Series, Scranton, Pennsylvania Quadrangle.

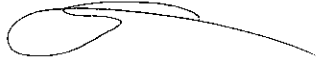
United States Geological Survey, 7.5-Minute Series, Scranton, Pennsylvania Quadrangles.

Weight, Willis D., and Sonderegger, John L., *Manual of Applied Hydrogeology*, McGraw-Hill Companies, Incorporated, 2001.

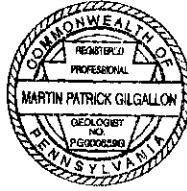
25 Pennsylvania Code, Chapter 105, Dam Safety and Waterway Management, January, 1997.

13. SIGNATURES

This Chapter 245 Final Site Characterization Report was prepared by:



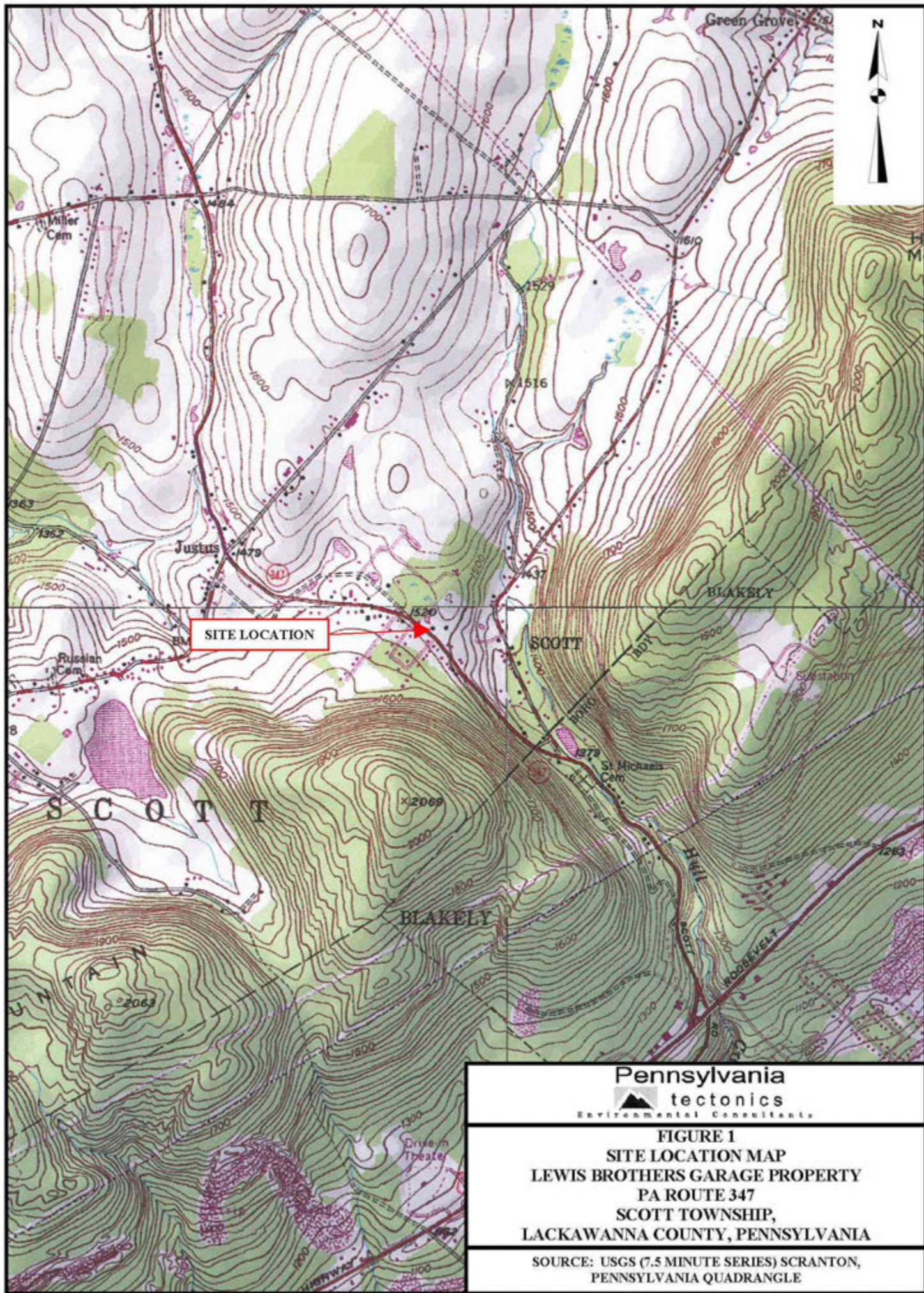
Martin Gilgallon, P.G.
Project Director
Pennsylvania Tectonics, Incorporated
Pennsylvania Registered Professional
Geologist No. 000639-G



“By affixing my seal to this document, I am certifying that the information contained herein is true and correct. I further certify that I am licensed to practice geology in the Commonwealth of Pennsylvania and that it is within my professional area of expertise to verify the correctness of this information”.

APPENDIX A

Site Map and Figures



Pennsylvania
tectonics
Environmental Consultants

FIGURE 1
SITE LOCATION MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

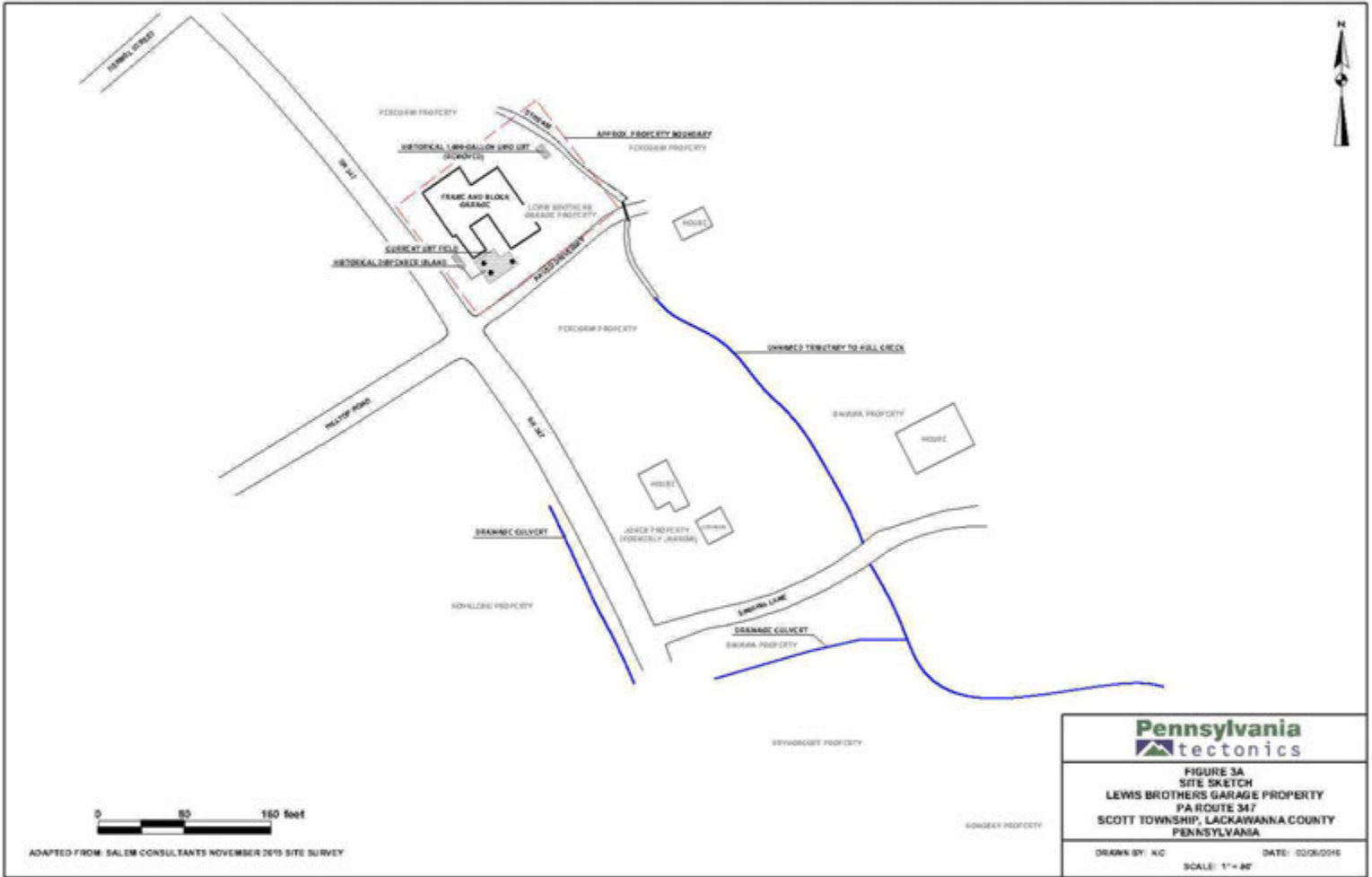
SOURCE: USGS (7.5 MINUTE SERIES) SCRANTON,
PENNSYLVANIA QUADRANGLE



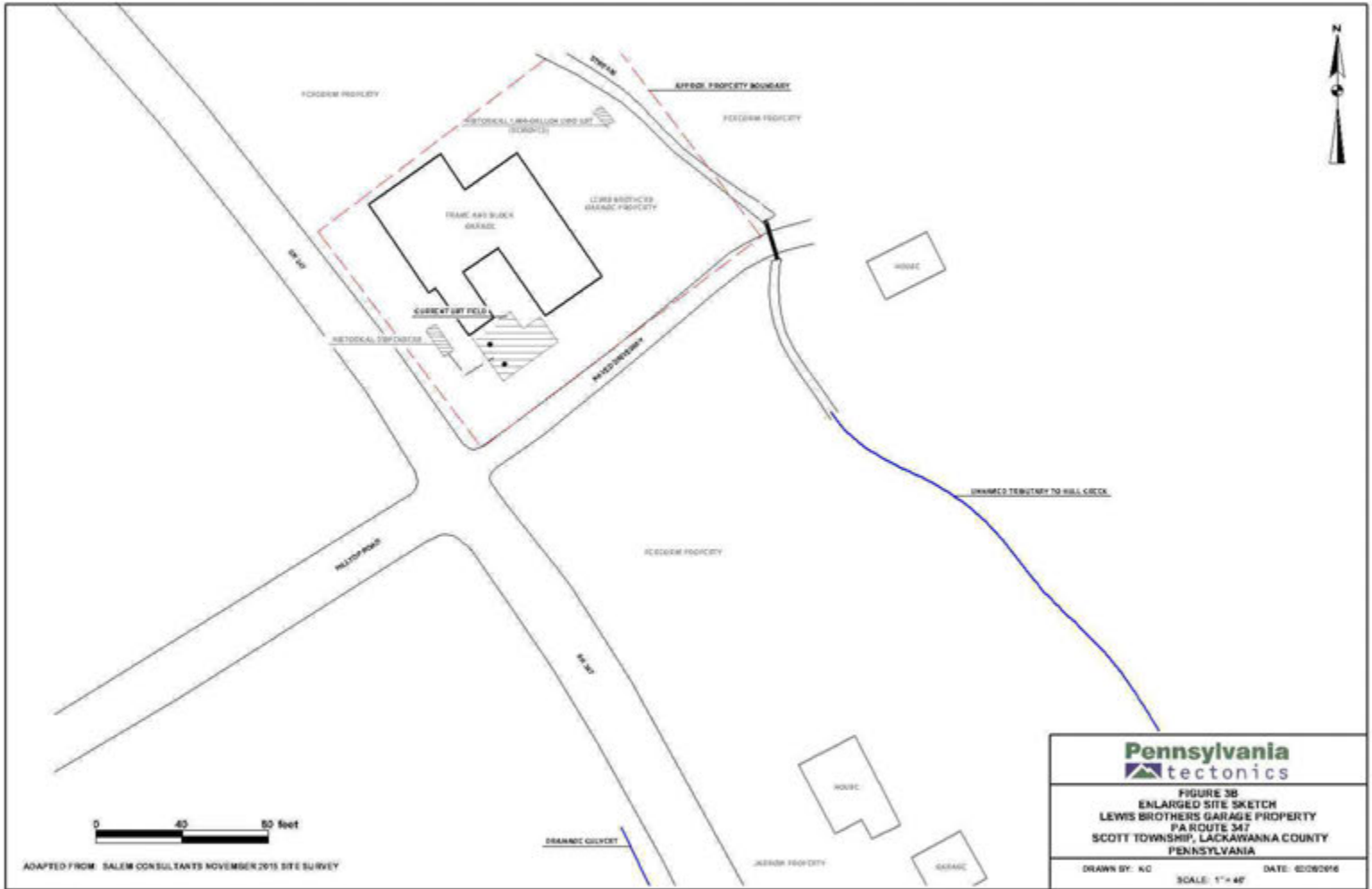
Pennsylvania
tectonics
Environmental Consultants

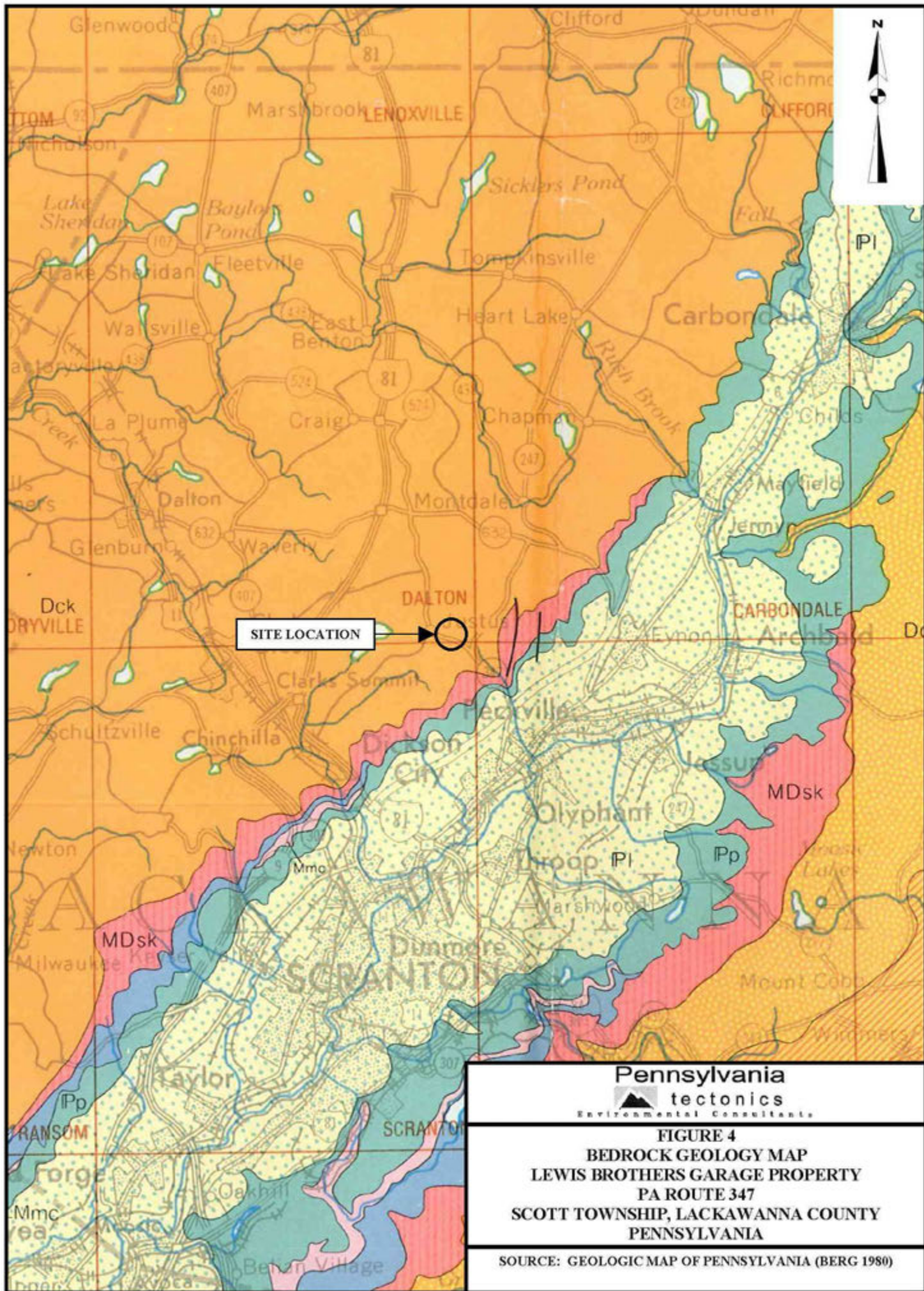
FIGURE 2
LACKAWANNA COUNTY TAX MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

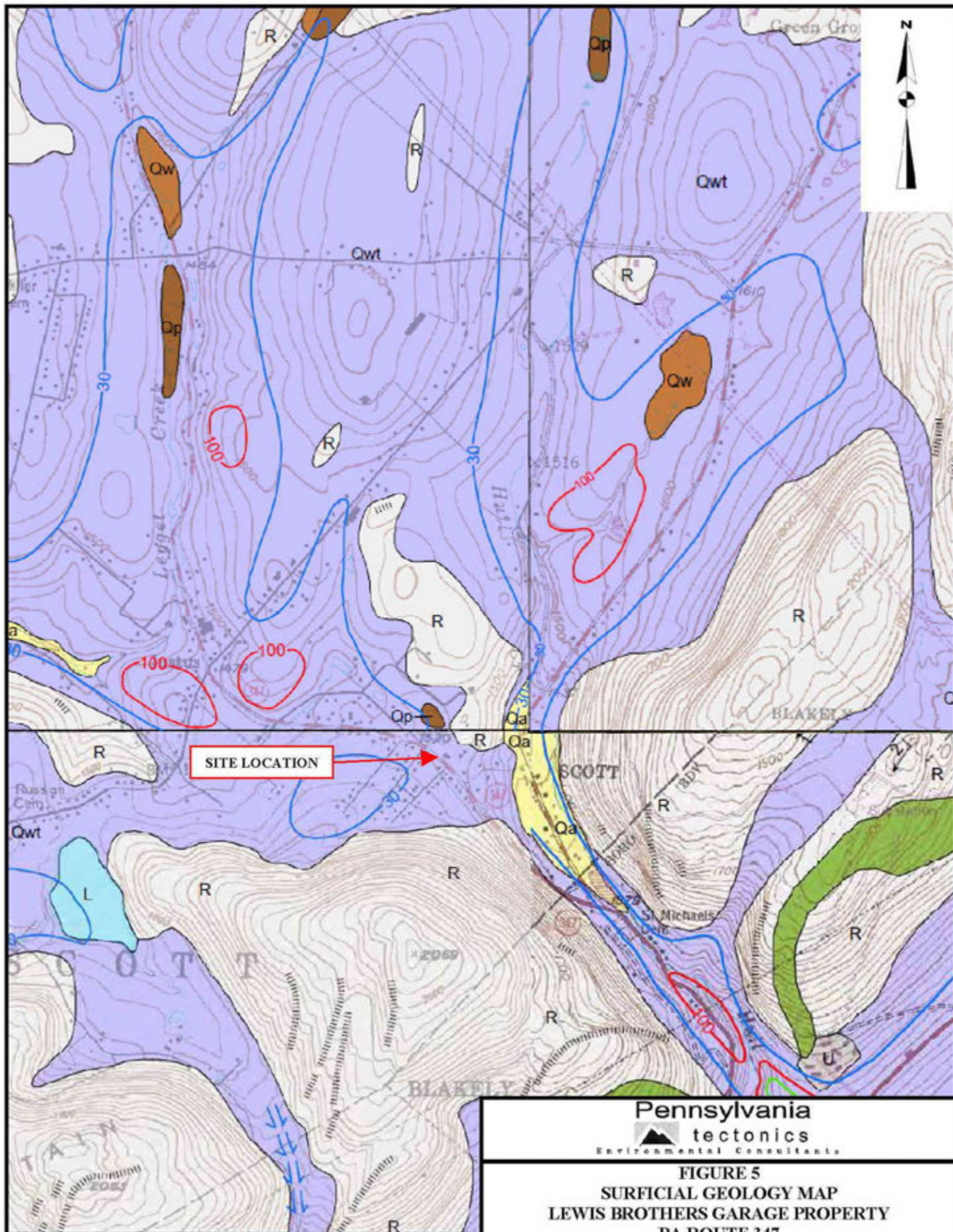
SOURCE: LACKAWANNA COUNTY ASSESSOR'S OFFICE



ADAPTED FROM SALEM CONSULTANTS NOVEMBER 2010 SITE SURVEY





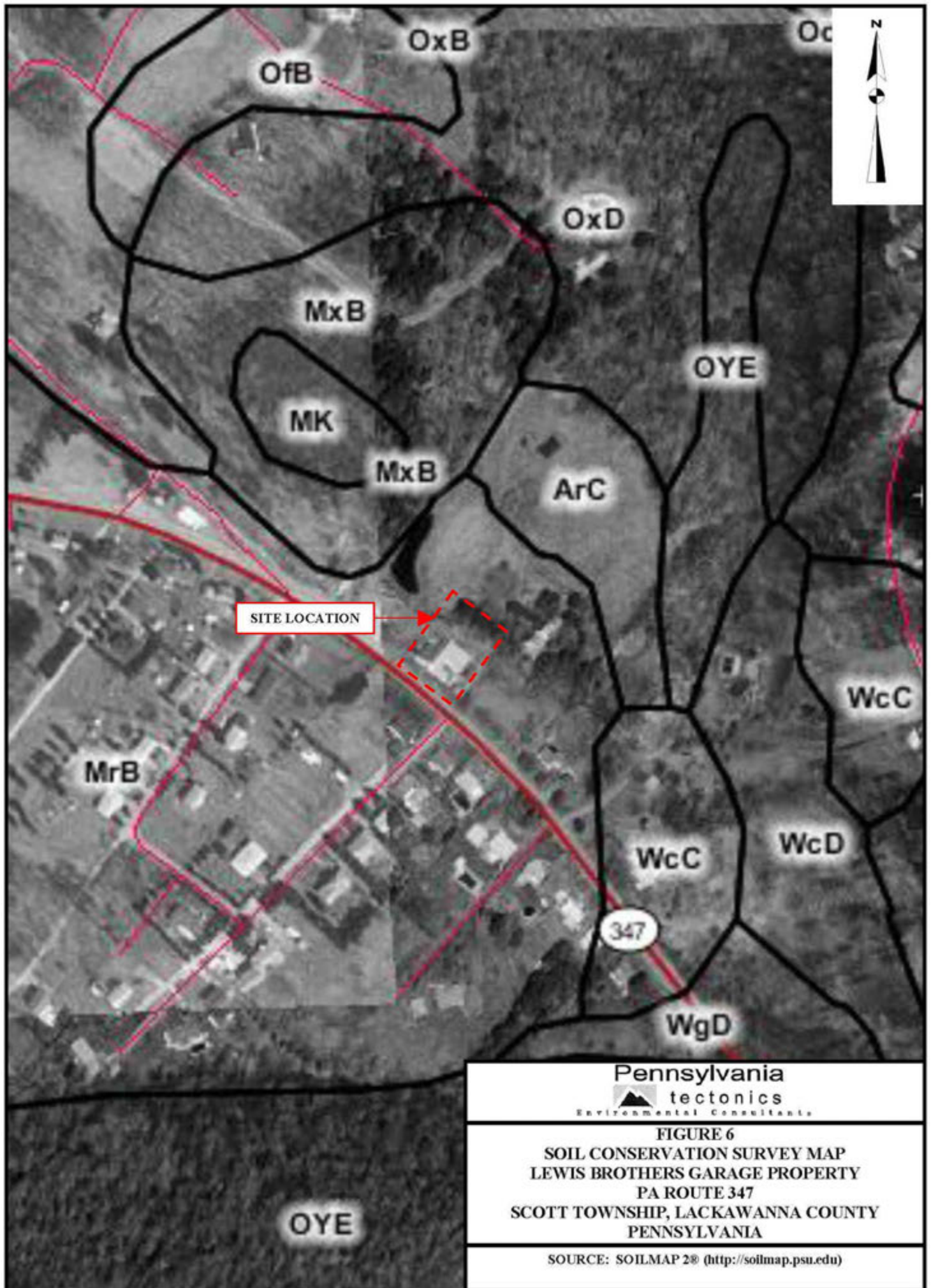


Qwt Wisconsinan Till
 Till: poorly sorted, unstratified diamict with a clayey, silty, or sandy matrix depending on the local source bedrock; common cobble and boulder clasts; typically occurs as a fairly smooth landform with a bouldery surface and no clear constructional (knob and kettle) topography on hillslopes; upper meter is often colluviated, displaying a downslope-oriented fabric; thickness is greater than 2 meters, is typically 3 to 5 meters, and can be greater than 30 meters in some buried valley segments.

Pennsylvania tectonics
 Environmental Consultants

FIGURE 5
SURFICIAL GEOLOGY MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

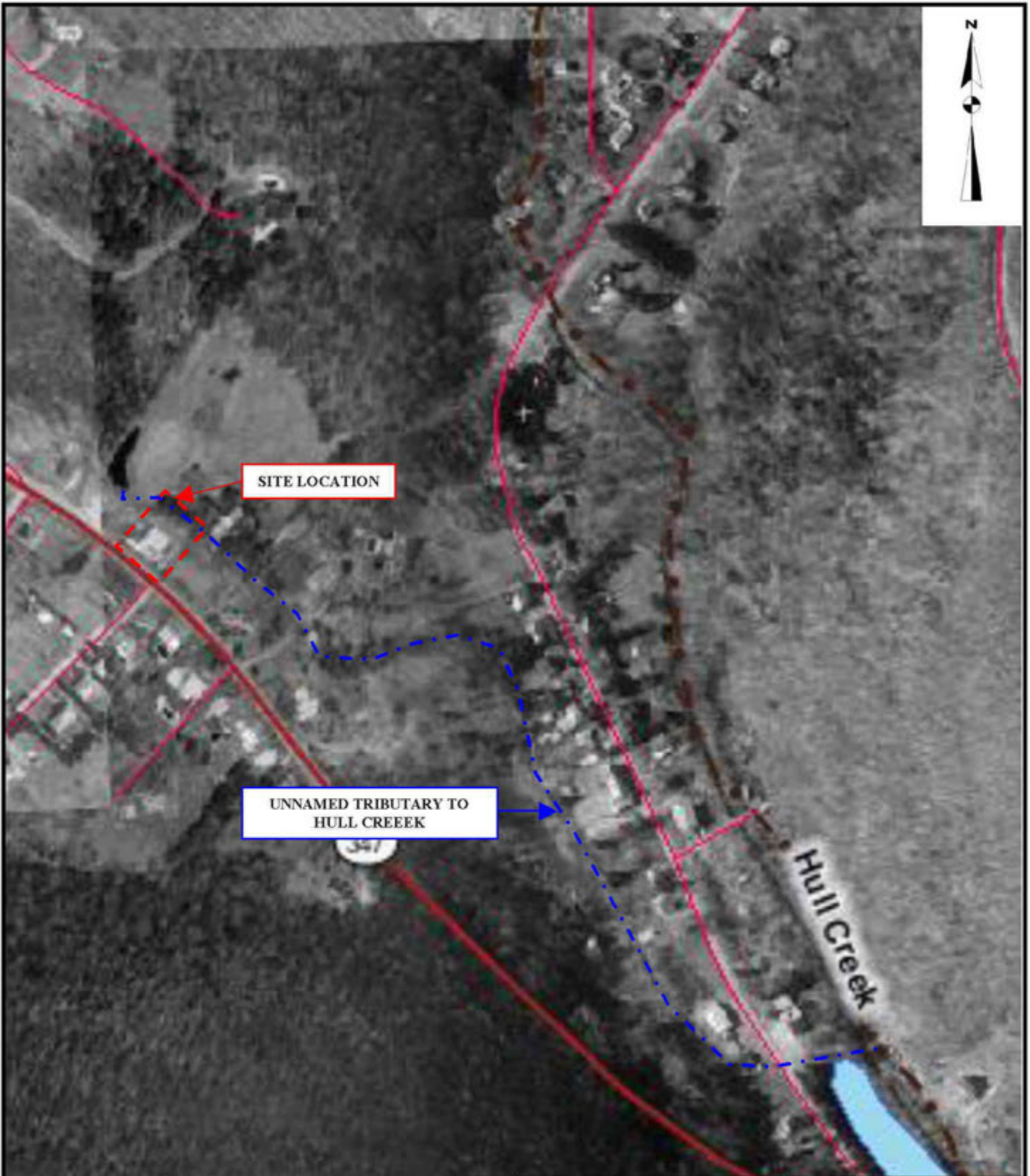
SOURCE: SURFICIAL GEOLOGY OF THE SCRANTON, DALTON, CARBONDALE AND OLYPHANT PA QUADRANGLES (BRAUN 2006 -2007)



Pennsylvania tectonics
Environmental Consultants

FIGURE 6
SOIL CONSERVATION SURVEY MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA

SOURCE: SOILMAP 2® (<http://soilmap.psu.edu>)



SITE LOCATION

UNNAMED TRIBUTARY TO
HULL CREEEK

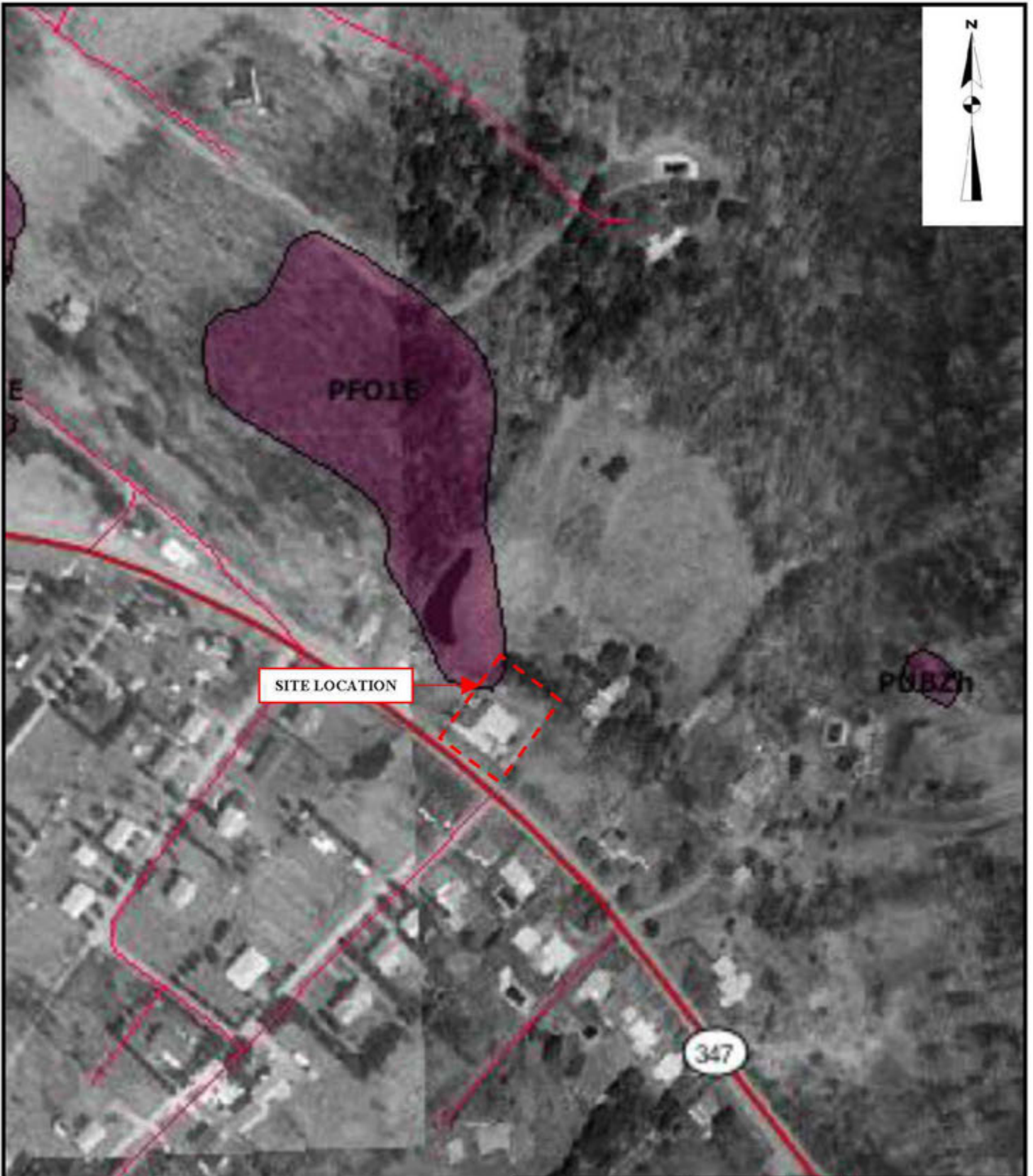
Hull Creek

347

Pennsylvania
 **tectonics**
Environmental Consultants

FIGURE 7
LOCAL WATERSHED MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA

SOURCE: SOILMAP 2® (<http://soilmap.psu.edu>)



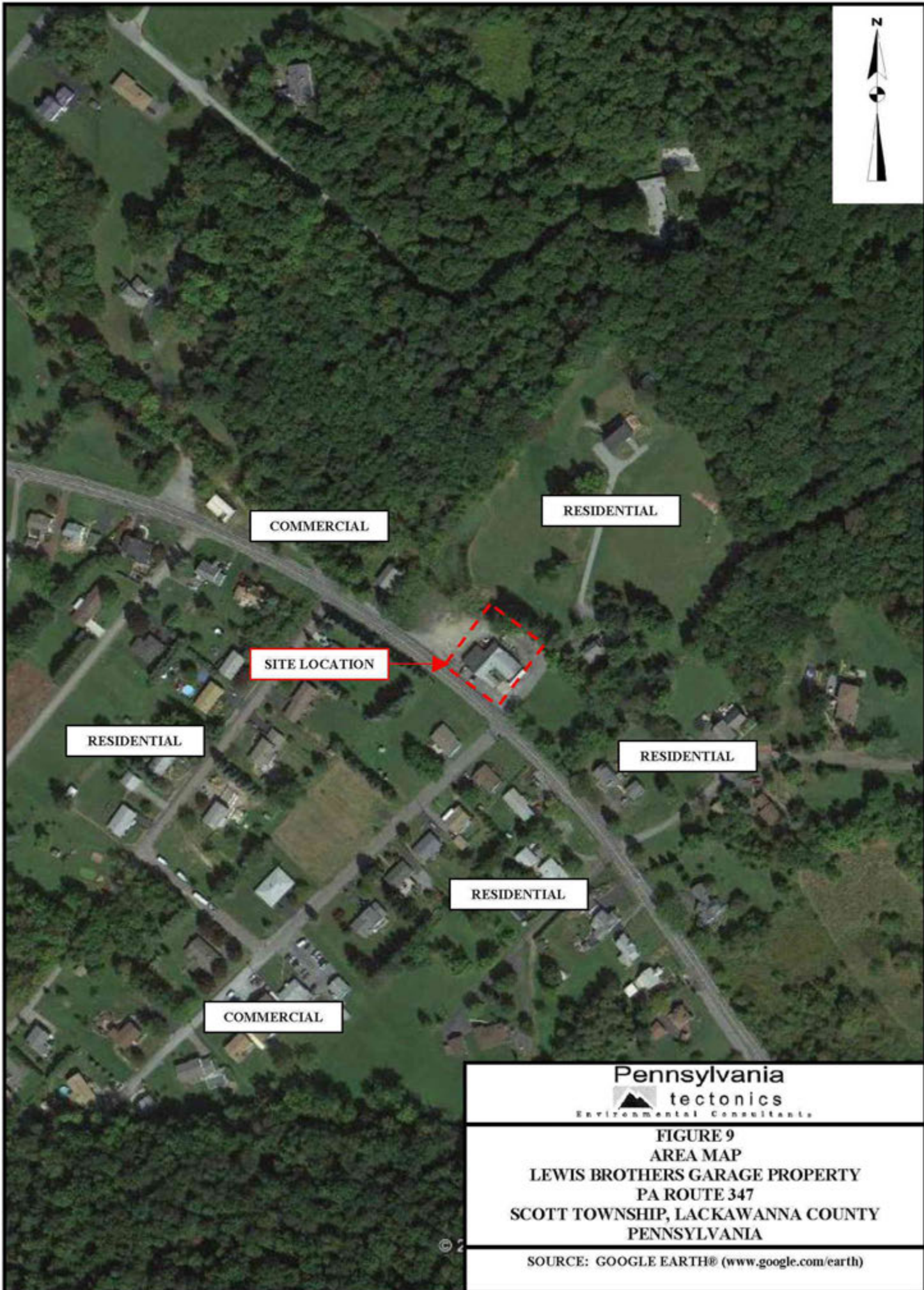
Pennsylvania

 tectonics
Environmental Consultants

FIGURE 8
NATIONAL WETLAND INVENTORY MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA

SOURCE: SOILMAP 2® (<http://soilmap.psu.edu>)

180m



COMMERCIAL

RESIDENTIAL

SITE LOCATION

RESIDENTIAL

RESIDENTIAL

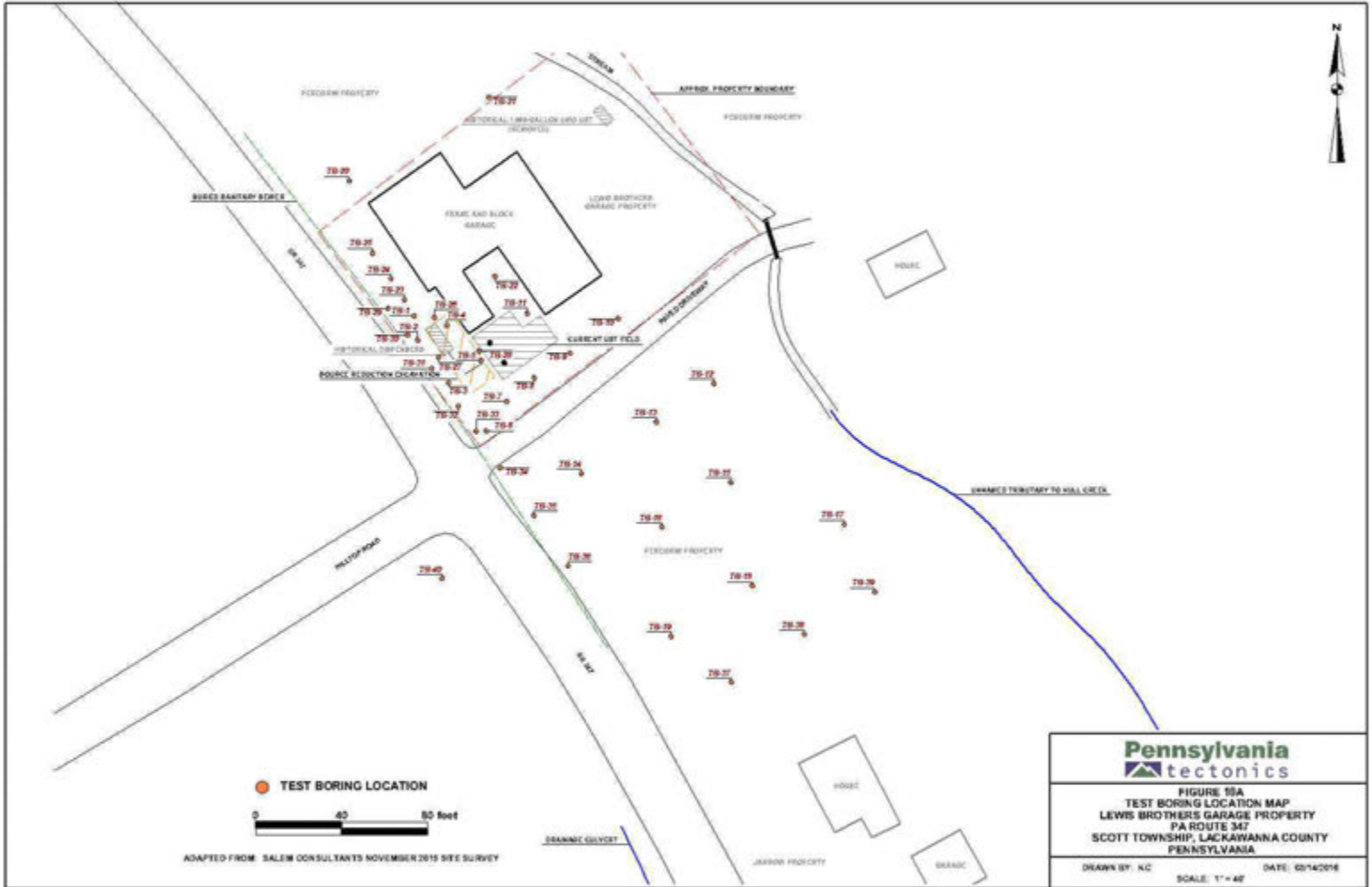
RESIDENTIAL

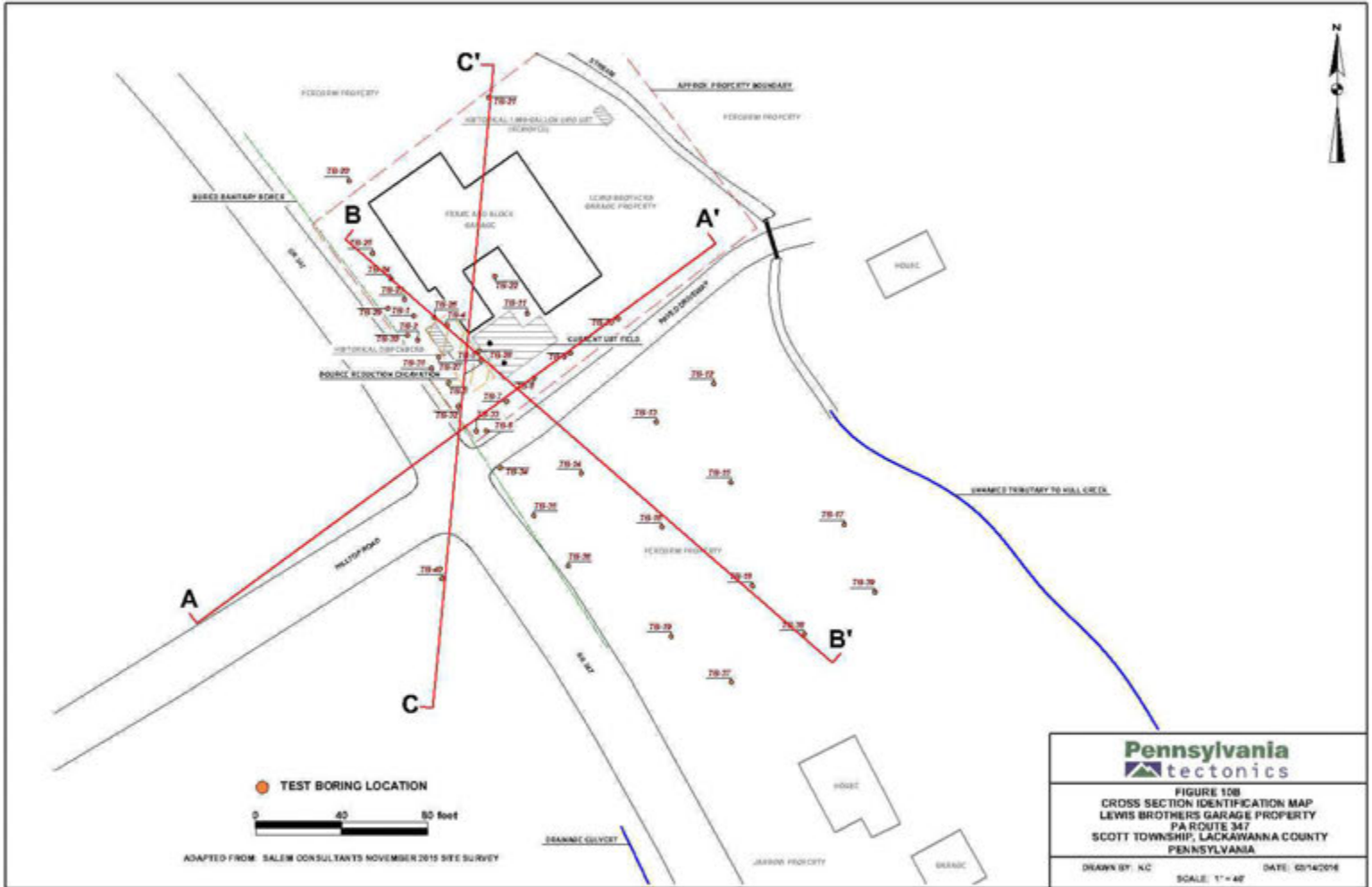
COMMERCIAL

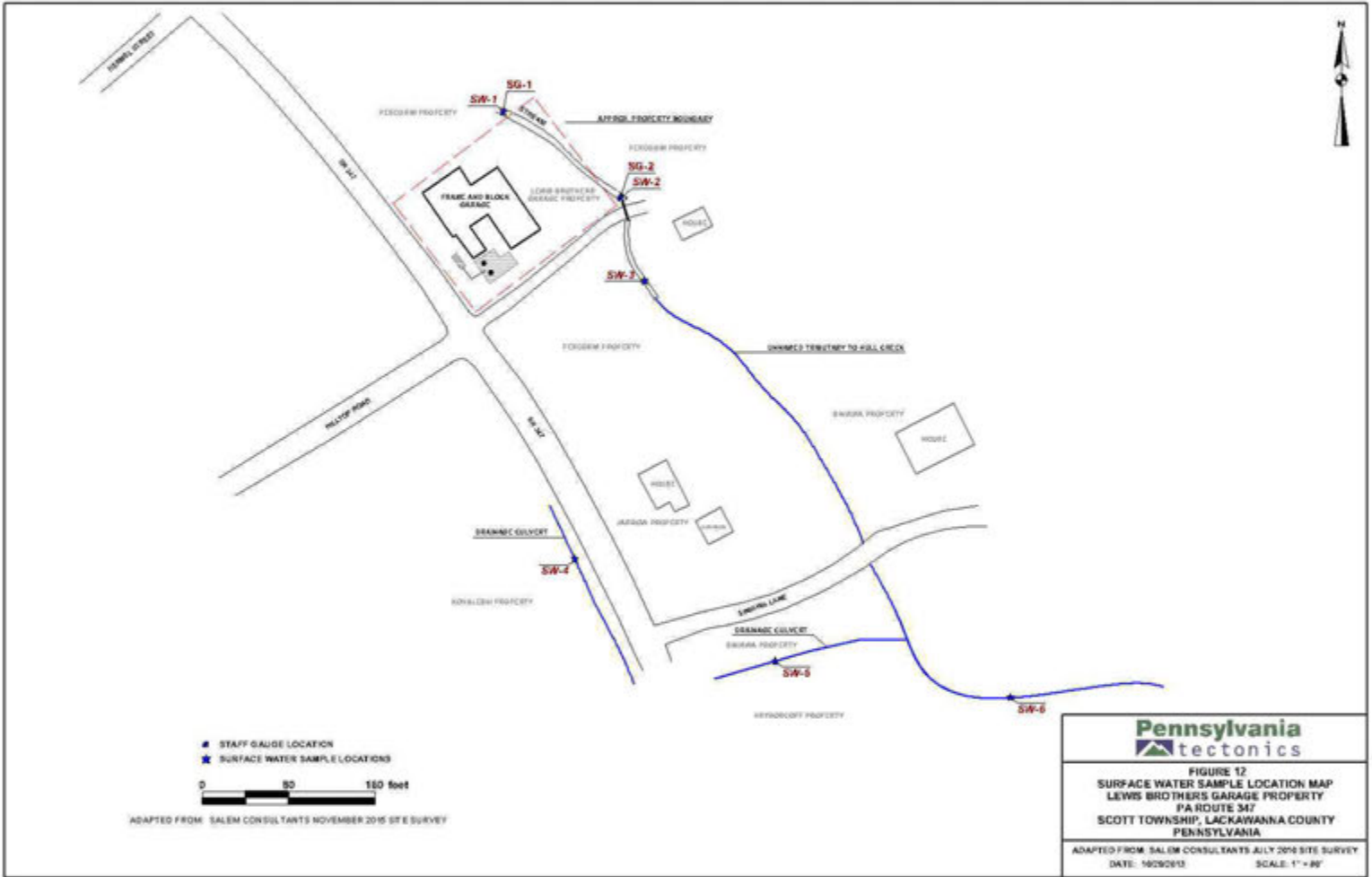
Pennsylvania
 **tectonics**
Environmental Consultants

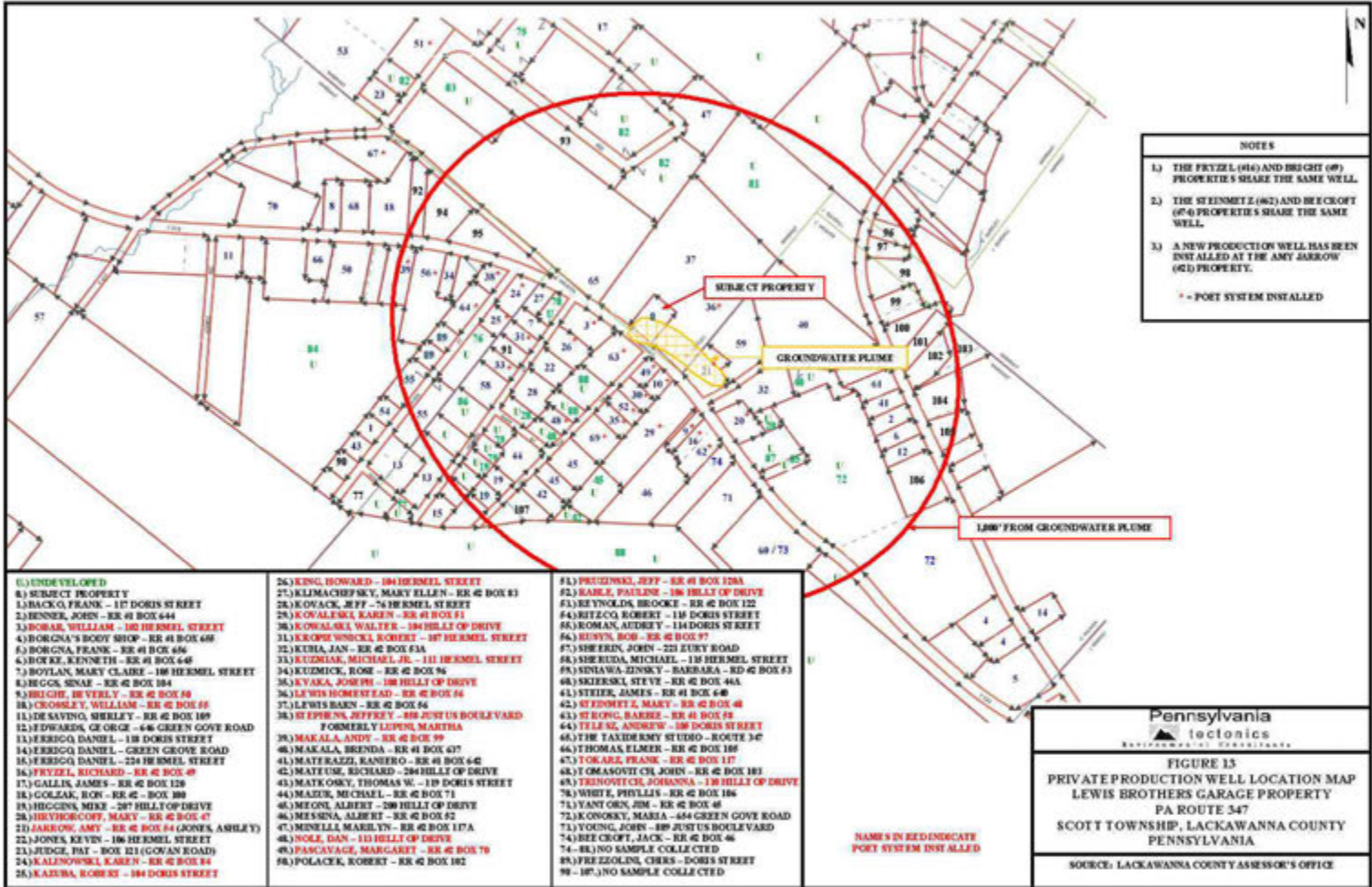
FIGURE 9
AREA MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA

SOURCE: GOOGLE EARTH® (www.google.com/earth)









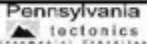
- NOTES
- 1) THE FRYZEL (616) AND BRIGHT (69) PROPERTIES SHARE THE SAME WELL.
 - 2) THE ST ENNETZ (62) AND BEECROFT (674) PROPERTIES SHARE THE SAME WELL.
 - 3) A NEW PRODUCTION WELL HAS BEEN INSTALLED AT THE AMY JARROW (62) PROPERTY.
- - PORT SYSTEM INSTALLED

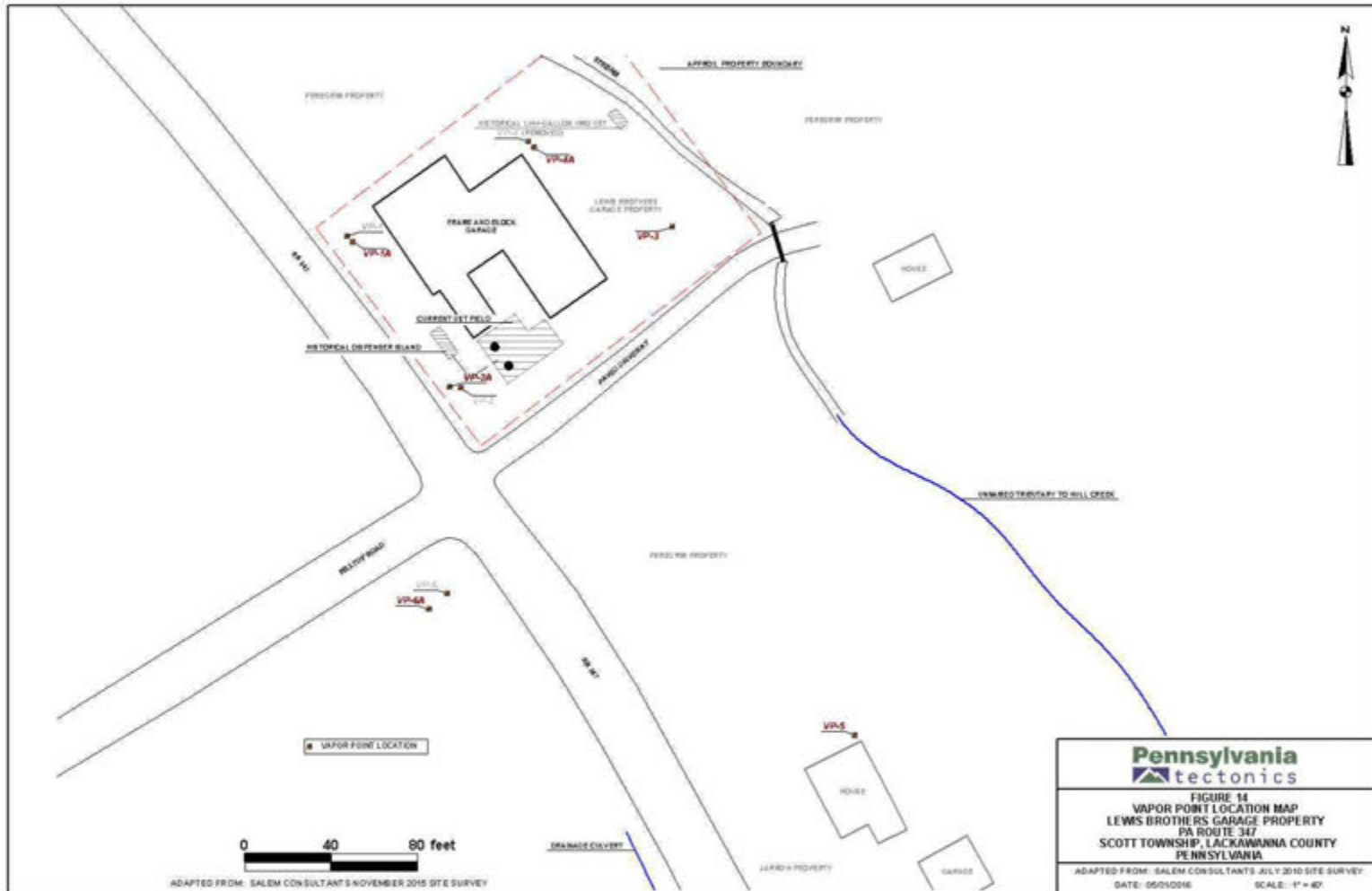
- (1) UNDEVELOPED
- 8) SUBJECT PROPERTY
- 1) BRACK, G. FRANK - 17 DORIS STREET
- 2) HENNER, JOHN - RR #1 BOX 644
- 3) FOWAR, WILLIAM - 100 HERMEL STREET
- 4) BORGNA'S BODY SHOP - RR #1 BOX 646
- 5) BORGNA, FRANK - RR #1 BOX 646
- 6) BOFKE, KENNETH - RR #1 BOX 646
- 7) BOYLAN, MARY CLARE - 100 HERMEL STREET
- 8) HEGGS, SNAE - RR #2 BOX 184
- 9) BRIDGE, DE VIELLY - RR #2 BOX 66
- 10) CROSSLY, WILLIAM - RR #2 BOX 66
- 11) DE SAVINO, SHERLEY - RR #2 BOX 189
- 12) EDWARDS, GEORGE - 646 GREEN GOVE ROAD
- 13) FERRICO, DANIEL - 118 DORIS STREET
- 14) FERRICO, DANIEL - GREEN CROFT ROAD
- 15) FERRICO, DANIEL - 224 HERMEL STREET
- 16) FRYZEL, RICHARD - RR #2 BOX 49
- 17) GALLIK, JAMES - RR #2 BOX 126
- 18) GOLZAK, BOB - RR #2 - BOX 189
- 19) HIGGINS, MIKE - 287 HILLTOP DRIVE
- 20) IRVINGHOFF, MARY - RR #2 BOX 47
- 21) JARROW, AMY - RR #2 BOX 64 (GOWAN, ANHLEY)
- 22) JOYEA, KEVIN - 100 HERMEL STREET
- 23) JUDGE, PAT - BOX 121 (GOWAN ROAD)
- 24) KALENOWSKI, KAREN - RR #2 BOX 84
- 25) KAZUBA, ROBERT - 104 DORIS STREET

- 26) KING, HOWARD - 104 HERMEL STREET
- 27) KLIMACHEP SKY, MARY ELLEN - RR #2 BOX 83
- 28) KOVACK, JEFF - 74 HERMEL STREET
- 29) KOVALEWSKI, KAREN - RR #1 BOX 81
- 30) KOWALSKI, WALTER - 104 HILLTOP DRIVE
- 31) KRUPA, MICHAEL, ROBERT - 107 HERMEL STREET
- 32) KUSA, JAN - RR #2 BOX 61A
- 33) KUZMAK, MICHAEL, JR. - 111 HERMEL STREET
- 34) KUZMICK, ROSE - RR #2 BOX 96
- 35) KVARSA, JOSEPH - 108 HILLTOP DRIVE
- 36) LEWIS, HOMER, JR. - RR #2 BOX 64
- 37) LEWIS, BAKEN - RR #2 BOX 64
- 38) STEPHENS, JEFFREY - 409 JUST US BOULEVARD
- FORMERLY LUPON, MARTHA
- 39) MAKALA, ANDY - RR #2 BOX 99
- 40) MAKALA, BRENDA - RR #1 BOX 617
- 41) MATRAZZI, RANIERO - RR #1 BOX 640
- 42) MATEUSE, RICHARD - 284 HILLTOP DRIVE
- 43) MATH OBY, THOMAS W. - 119 DORIS STREET
- 44) MAZUR, MICHAEL - RR #2 BOX 71
- 45) MEONI, ALBERT - 200 HILLTOP DRIVE
- 46) MEISSNER, ALBERT - RR #2 BOX 82
- 47) MENELLI, MARLEEN - RR #2 BOX 117A
- 48) MOLE, DAN - 113 HILLTOP DRIVE
- 49) PASCAVAGE, MARGARET - RR #2 BOX 70
- 50) POLACEK, ROBERT - RR #2 BOX 182

- 51) PRUZINSKI, JEFF - RR #1 BOX 120A
- 52) REAR, PAULINE - 108 HILLTOP DRIVE
- 53) REYNOLDS, BROCKE - RR #2 BOX 122
- 54) RITZCO, ROBERT - 118 DORIS STREET
- 55) ROMAN, AUDREY - 114 DORIS STREET
- 56) SHWY, BOB - RR #2 BOX 97
- 57) SHEPHERD, JOHN - 225 EURY ROAD
- 58) SHREUDA, MICHAEL - 118 HERMEL STREET
- 59) SINDAWA, JINNY - BARBARA - RD #2 BOX 83
- 60) SKJEKSKI, STEVE - RR #2 BOX 46A
- 61) STEIER, JAMES - RR #1 BOX 640
- 62) STEPHEN, MARY - RR #2 BOX 48
- 63) STONG, BARRE - RR #1 BOX 88
- 64) TYLE, AL, ANDREW - 109 DORIS STREET
- 65) THE TAXIDERMY STUDIO - ROUTE 340
- 66) THOMAS, ELMER - RR #2 BOX 186
- 67) TOKARZ, FRANK - RR #2 BOX 117
- 68) TOMASOVICH, JOHN - RR #2 BOX 183
- 69) TRINOGIET, CIL, JOHANNA - 110 HILLTOP DRIVE
- 70) WHITE, PHYLLIS - RR #2 BOX 186
- 71) YANT ORN, JIM - RR #2 BOX 48
- 72) KOSOVSKY, MARIA - 654 GREEN GOVE ROAD
- 73) YOUNG, JOHN - 809 JUST US BOULEVARD
- 74) BEECROFT, JACK - RR #2 BOX 46
- 74 - (R) NO SAMPLE COLLECTED
- 83) FREEZOLING, CHRIS - DORIS STREET
- 90 - 107, NO SAMPLE COLLECTED

NAMES IN RED INDICATE PORT SYSTEM INSTALLED

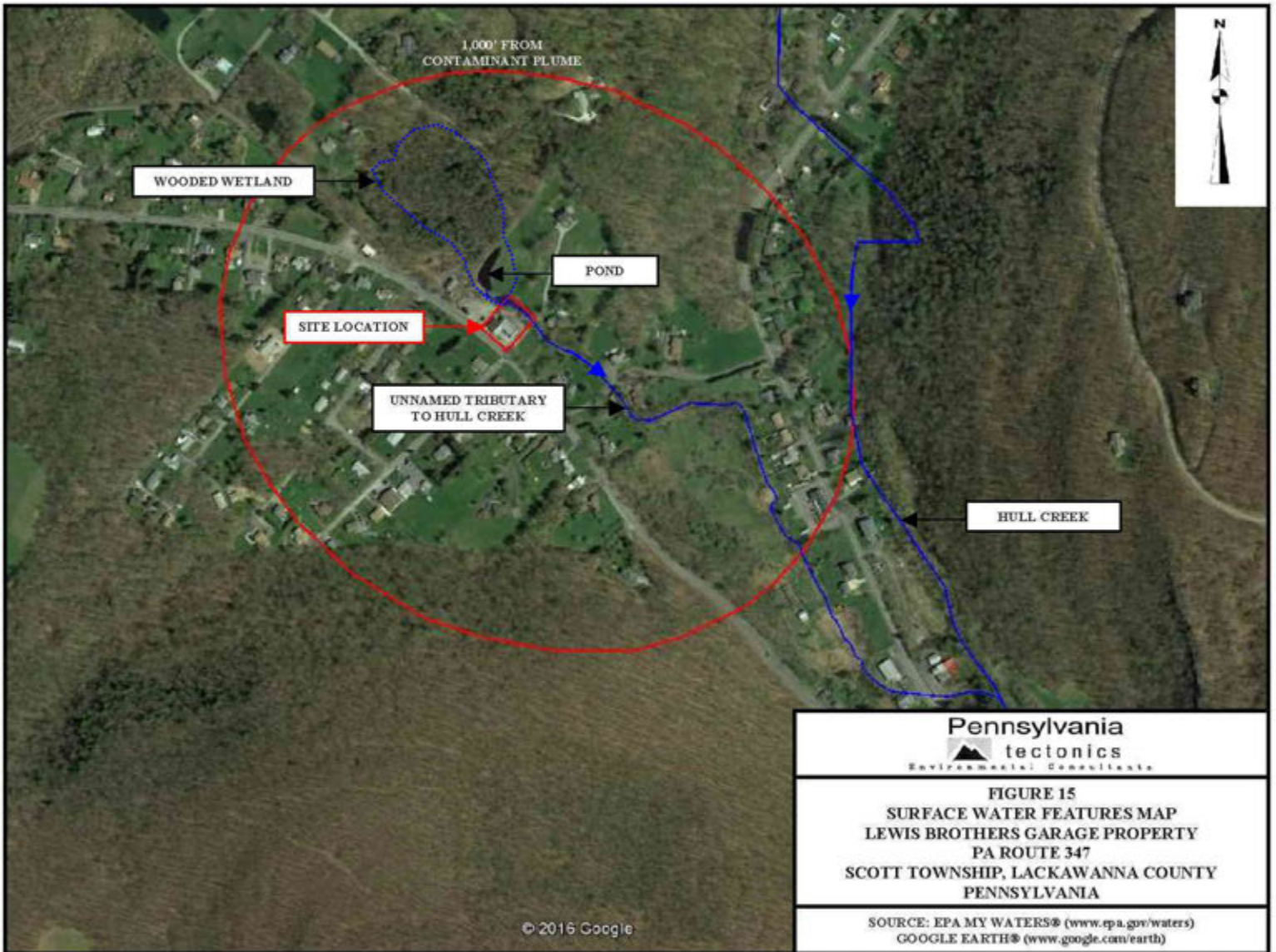

 FIGURE 13
 PRIVATE PRODUCTION WELL LOCATION MAP
 LEWIS BROTHERS GARAGE PROPERTY
 PA ROUTE 347
 SCOTT TOWNSHIP, LACKAWANNA COUNTY
 PENNSYLVANIA
 SOURCE: LACKAWANNA COUNTY ASSESSOR'S OFFICE

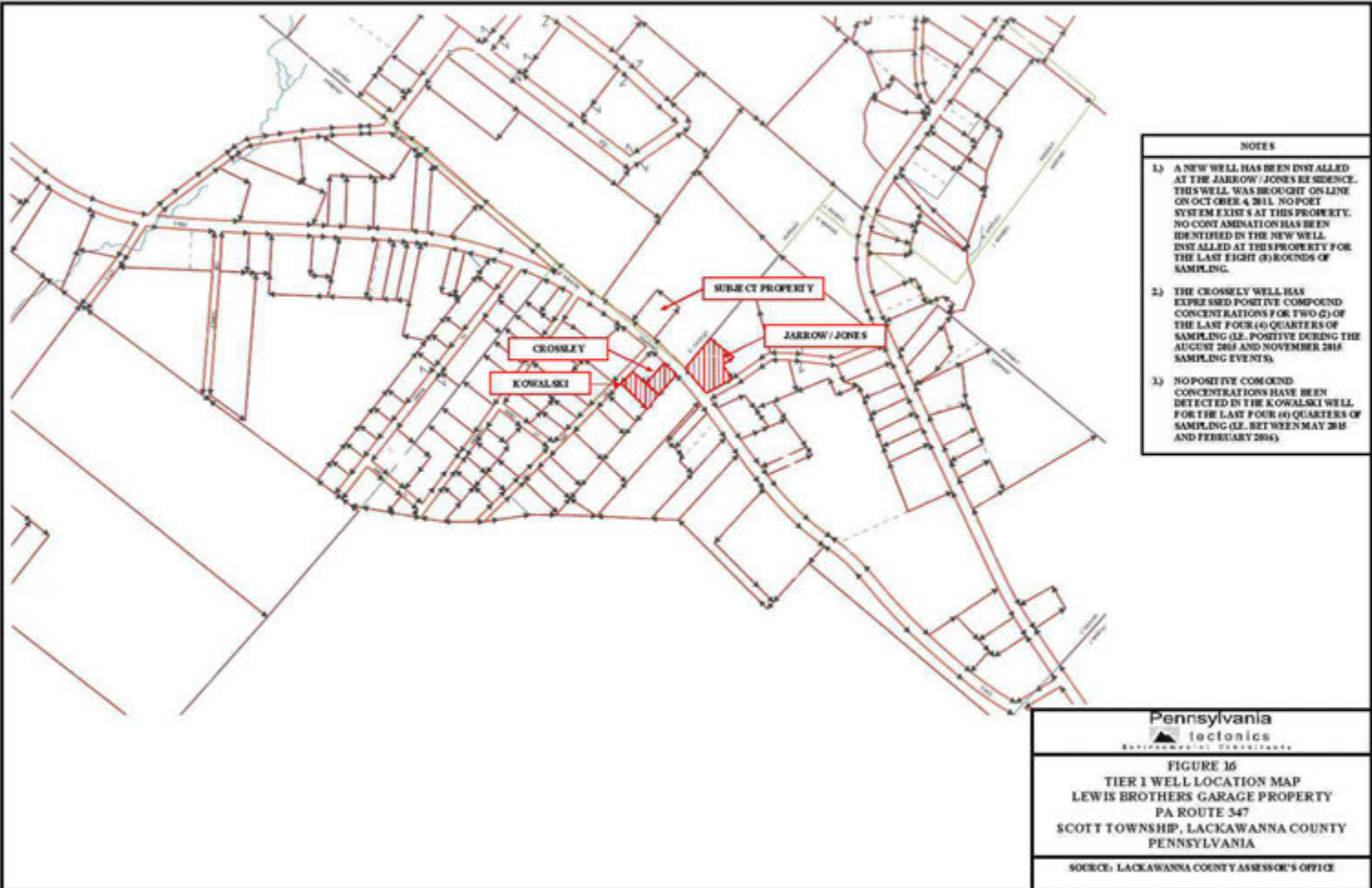


Pennsylvania
tectonics

FIGURE 14
VAPOR POINT LOCATION MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA

ADAPTED FROM: SALEM CONSULTANTS JULY 2010 SITE SURVEY
 DATE: 05/01/2016 SCALE: 1" = 40'





- NOTES
- 1) A NEW WELL HAS BEEN INSTALLED AT THE JARROW/JONES RESIDENCE. THIS WELL WAS BROUGHT ONLINE ON OCTOBER 4, 2011. NO POREL SYSTEM EXISTS AT THIS PROPERTY. NO CONTAMINATION HAS BEEN IDENTIFIED IN THE NEW WELL INSTALLED AT THIS PROPERTY FOR THE LAST EIGHT (8) ROUNDS OF SAMPLING.
 - 2) THE CROSSLEY WELL HAS EXCEEDED POSITIVE COMPOUND CONCENTRATIONS FOR TWO (2) OF THE LAST FOUR (4) QUARTERS OF SAMPLING (I.E. POSITIVE DURING THE AUGUST 2015 AND NOVEMBER 2015 SAMPLING EVENTS).
 - 3) NO POSITIVE COMPOUND CONCENTRATIONS HAVE BEEN DETECTED IN THE KOWALSKI WELL FOR THE LAST FOUR (4) QUARTERS OF SAMPLING (I.E. BETWEEN MAY 2015 AND FEBRUARY 2016).

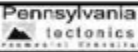
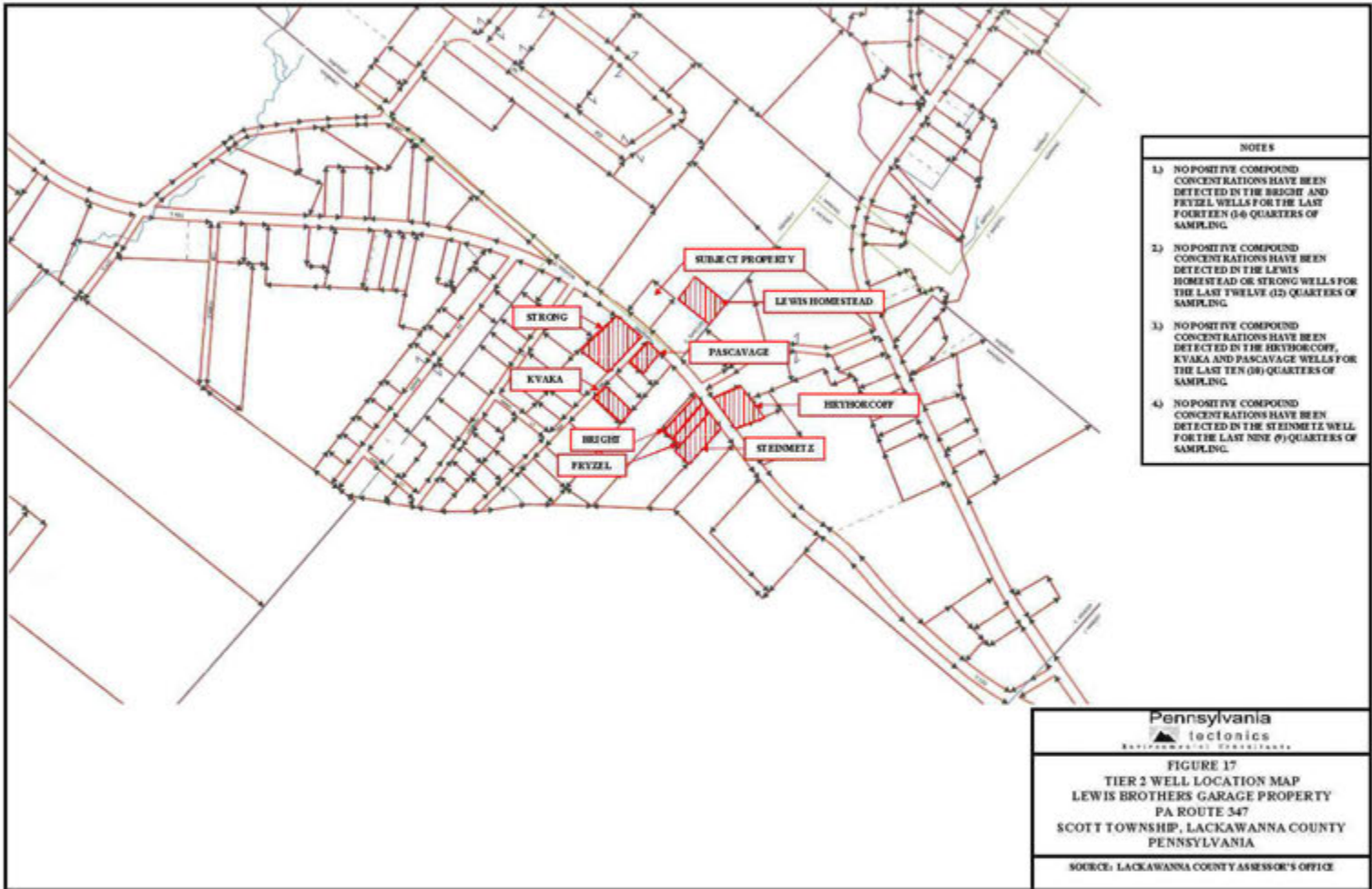
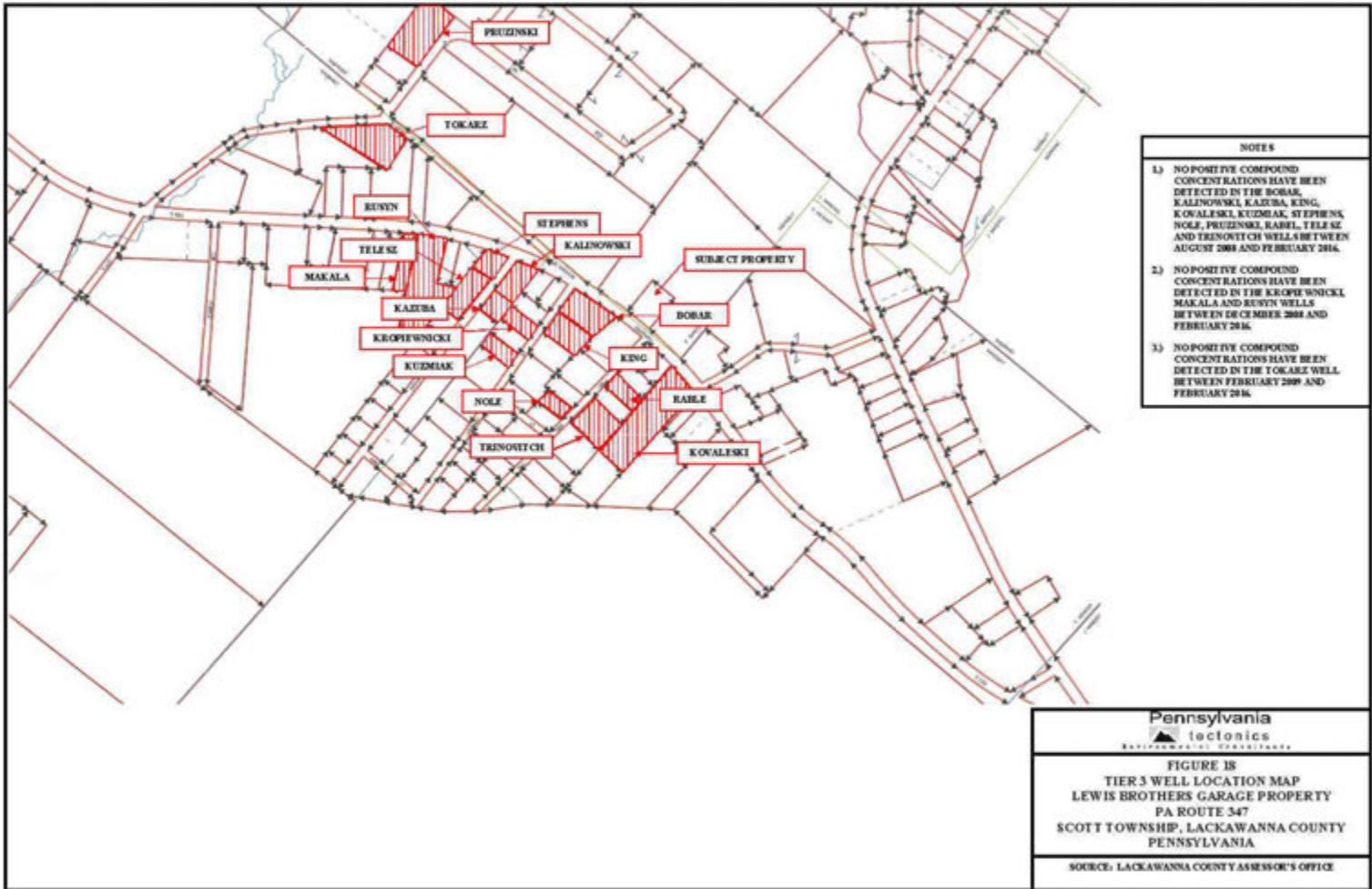

Pennsylvania
 tectonics
ENVIRONMENTAL CONSULTANTS

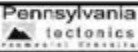
FIGURE 16
TIER 1 WELL LOCATION MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA

SOURCE: LACKAWANNA COUNTY ASSESSOR'S OFFICE





- NOTES
- 1) NO POSITIVE COMPOUND CONCENTRATIONS HAVE BEEN DETECTED IN THE B0BAR, KALINOWSKI, KAZUBA, KING, KOVALESKI, KUZMAK, STEPHENS, NOLE, PRUZINSKI, RABLE, TELESZ AND TRENOVICH WELLS BETWEEN AUGUST 2009 AND FEBRUARY 2016.
 - 2) NO POSITIVE COMPOUND CONCENTRATIONS HAVE BEEN DETECTED IN THE KROPIWNOCKI, MAKALA AND RUSYN WELLS BETWEEN DECEMBER 2008 AND FEBRUARY 2016.
 - 3) NO POSITIVE COMPOUND CONCENTRATIONS HAVE BEEN DETECTED IN THE TOKARZ WELL BETWEEN FEBRUARY 2009 AND FEBRUARY 2016.


FIGURE 18
TIER 3 WELL LOCATION MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA
 SOURCE: LACKAWANNA COUNTY ASSESSOR'S OFFICE

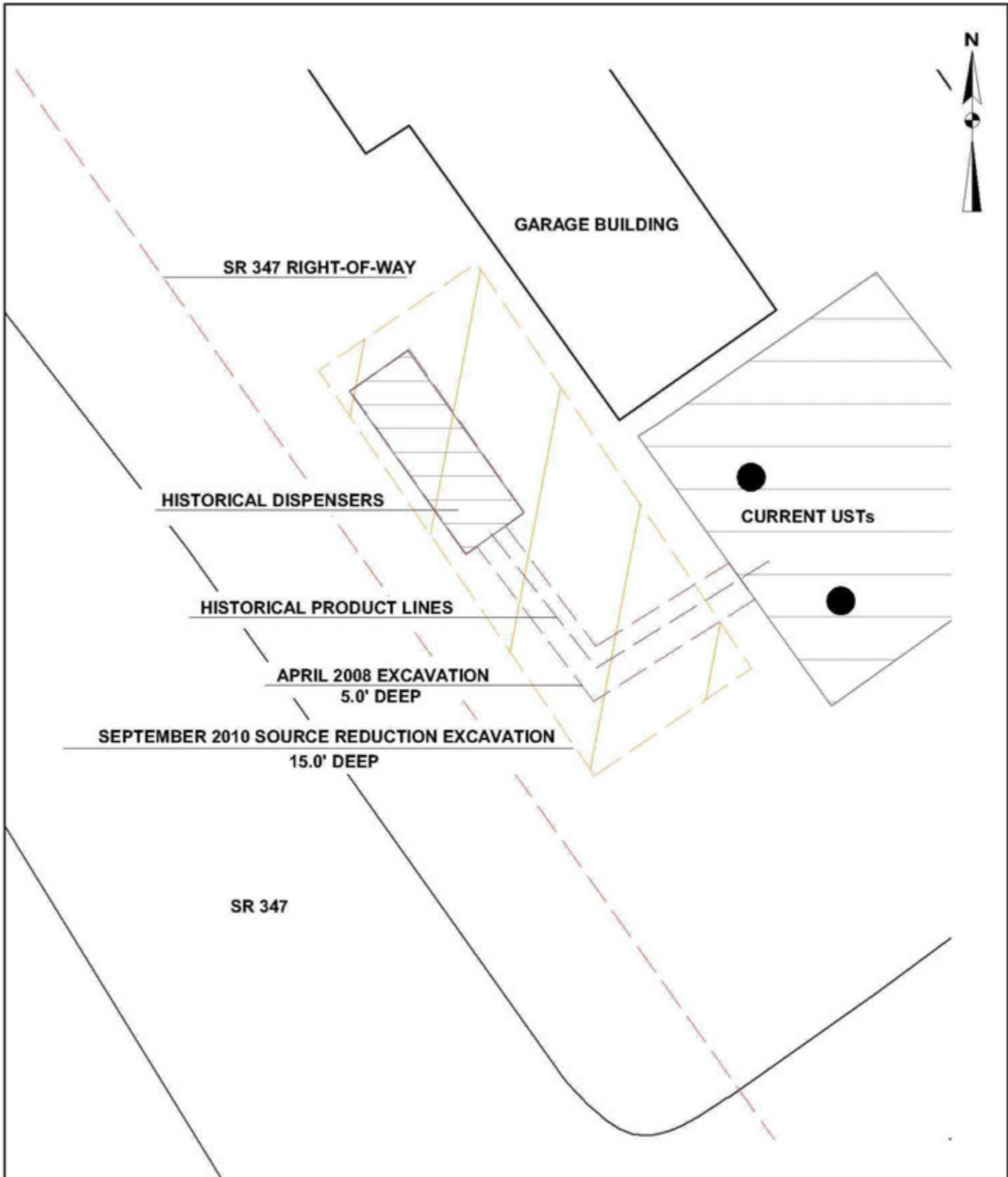
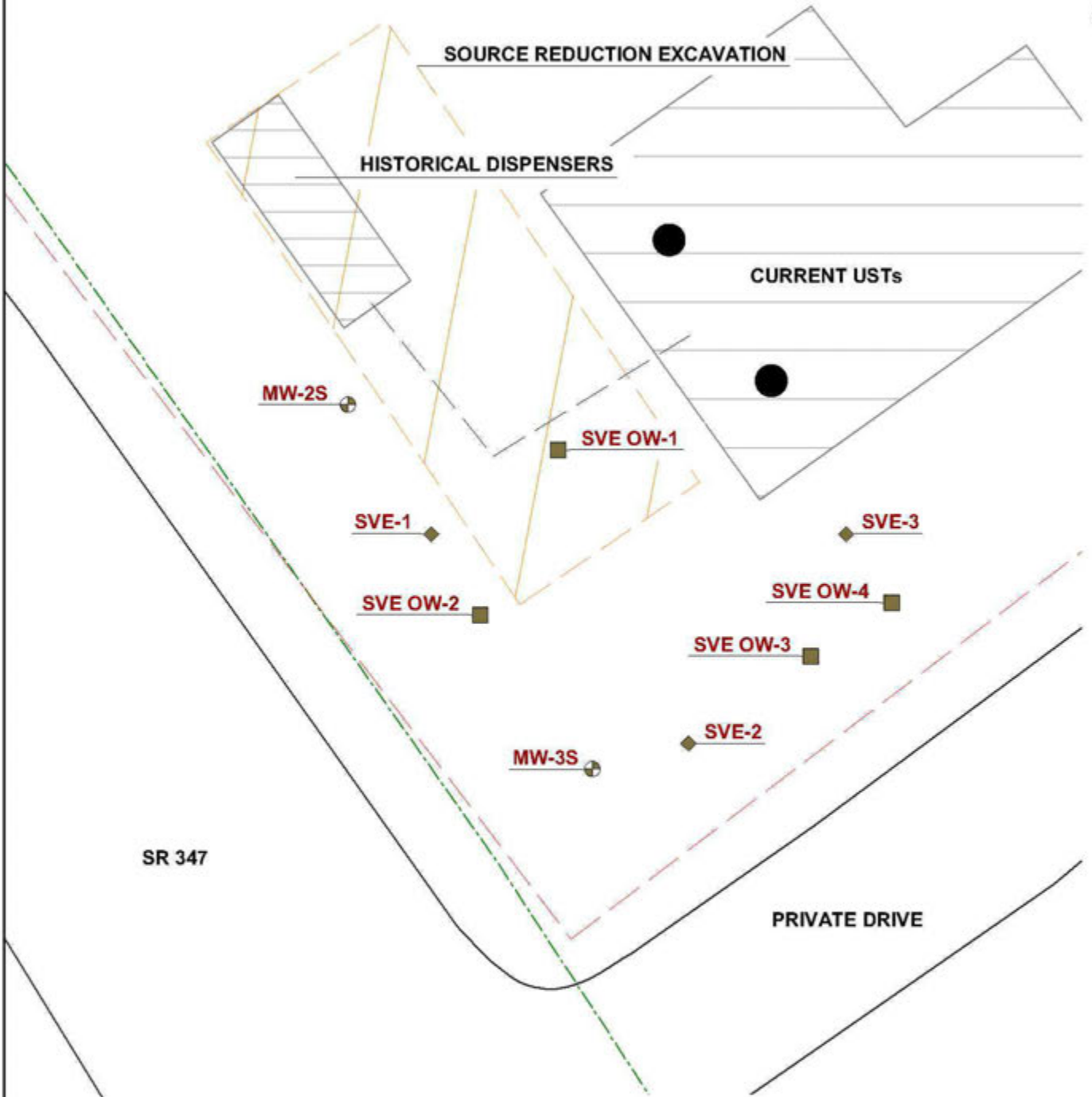


FIGURE 19
EXCAVATION LAYOUT MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA

DRAWN BY: KC

DATE: 4/17/2013

SCALE: 1" = 10'



- ◆ SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR EXTRACTION OBSERVATION WELL
- ⊕ SHALLOW GROUNDWATER MONITORING WELL

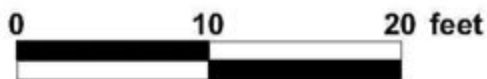


FIGURE 20
SVE PILOT TEST WELL LOCATION MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA

DRAWN BY: KC

DATE: 7/14/2016

SCALE: 1" = 10'

APPENDIX B

Photograph Log

Table B-1

Photograph Log

Photo	Description	Date
1.	Typical view of the subject property.	04/24/12
2.	View of the current USTs located at the subject property.	04/24/12
3.	Typical view of the subject property.	04/24/12
4.	Typical view of the POET systems installed at impacted private production wells.	01/07/11
5.	Typical view of monitoring well installation activities.	05/14/10
6.	View of the contaminated soil stockpile generated in April 2008.	08/20/10
7.	View of the April 2008 contaminated soil stockpile area upon completion of off-site disposal activities.	08/20/10
8.	Typical view of excavation activities during the September 2010 Source Reduction activities.	09/23/10
9.	View of contaminated soil being loaded for off-site disposal during the September 2010 Source Reduction activities.	09/23/10
10.	Typical view of conditions within the September 2010 Source Reduction excavation.	09/24/10
11.	View of the September 2010 Source Reduction excavation being backfilled with clean fill material.	09/24/10
12.	View of the September 2010 Source Reduction excavation upon completion of backfilling activities.	09/24/10
13.	View of the geophysical survey activities being conducted at the old Jarrow well.	11/29/11
14.	Typical view of conditions during the installation of the new Jarrow well.	07/26/11
15.	View of sludges being removed from the containment basin associated with the installation of the new Jarrow well.	08/05/11
16.	View of the old Jarrow well being abandoned.	12/02/11
17.	View of vapor sampling point being installed near the former Jarrow Residence.	05/28/15
18.	View of the private utility locating activities.	10/30/15
19.	View of the Geoprobe® setup at TB-40 / VP-6	11/18/15
20.	View of the Geoprobe® setup at TB-39.	11/18/15

Photo #1

04/24/12

Typical view of the subject property.



Photo #2

04/24/12

View of the current USTs located at the subject property.



Photo #3

04/24/12

Typical view of the subject property.



Photo #4

01/07/11

Typical view of the POET systems installed at impacted private production wells.



Photo #5

05/14/10

Typical view of monitoring well installation activities.

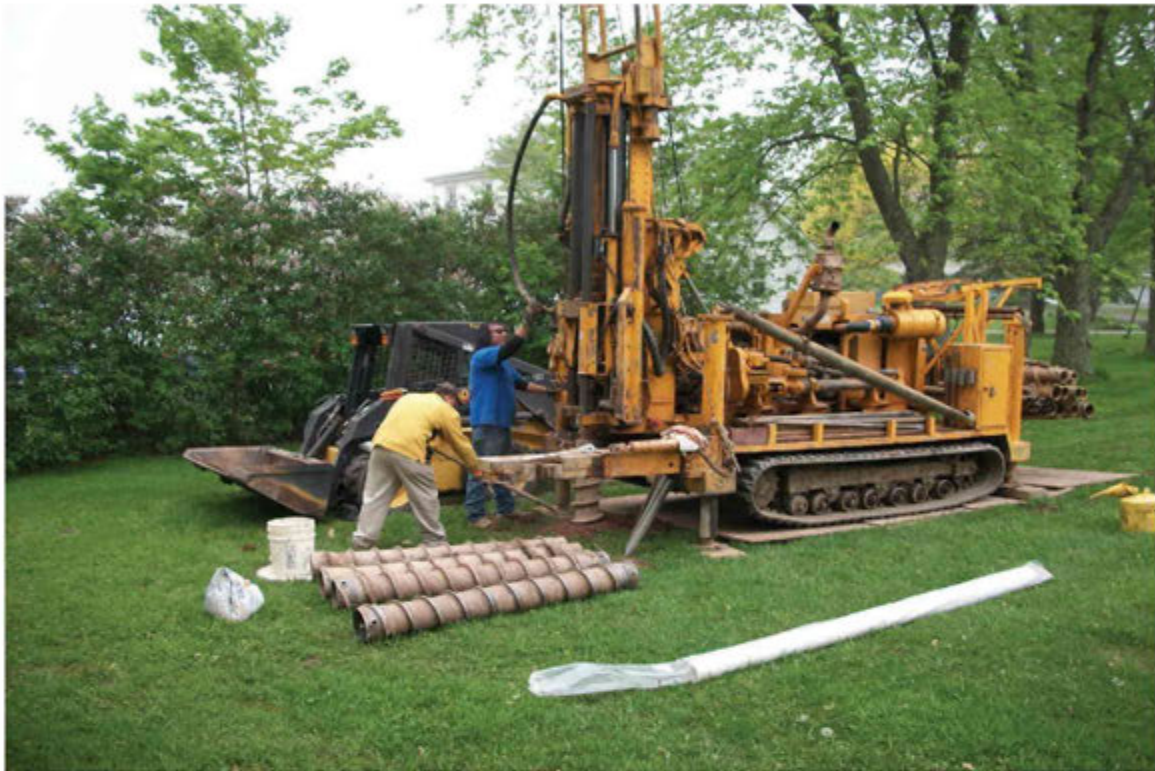


Photo #6

08/20/10

View of the contaminated soil stockpile generated in April 2008.



Photo #7

08/20/10

View of the April 2008 contaminated soil stockpile area upon completion of off-site disposal activities.



Photo #8

09/23/10

Typical view of excavation activities during the September 2010 Source Reduction activities.



Photo #9

09/23/10

View of contaminated soil being loaded for off-site disposal during the September 2010 Source Reduction activities.



Photo #10

09/24/10

Typical view of conditions within the September 2010 Source Reduction excavation.



Photo #11

09/24/10

View of the September 2010 Source Reduction excavation being backfilled with clean fill material.



Photo #12

09/24/10

View of the September 2010 Source Reduction excavation upon completion of backfilling activities.



Photo #13

11/29/11

View of the geophysical survey activities being conducted at the old Jarrow well.



Photo #14

07/26/11

Typical view of conditions during the installation of the new Jarrow well.



Photo #15

08/05/11

View of sludges being removed from the containment basin associated with the installation of the new Jarrow well.



Photo #16

12/02/11

View of the old Jarrow well being abandoned.



Photo #17

05/28/2015

View of vapor sampling point being installed near the former Jarrow Residence.



Photo #18

10/30/2015

View of the private utility locating activities.



Photo #19

11/18/2015

View the Geoprobe® setup at TB-40 / VP-6



Photo #20

11/18/2015

View of the Geoprobe® setup at TB-39.



APPENDIX C

Pennsylvania Tectonics Representative Resumes

MARTIN P. GILGALLON, P.G.

FIELDS OF COMPETENCE

Hazardous waste site characterization and remediation; Phase I and Phase II Environmental Site Assessment; test borings and monitoring well installation and sampling; hydrogeological studies; regulatory compliance assessment-- RCRA, CWA, TSCA, SDWA, CERCLA/SARA, and State standards (PA DEP, NY DEC, and NJ DEPE); remedial investigations / feasibility studies; underground storage tank compliance, closure, release investigations, site characterization, and corrective action; water supply investigations and permitting for commercial, industrial and institutional client; associated health & safety protocols.

EXPERIENCE SUMMARY

Twenty-eight years experience in the field of environmental assessment, water quality and wastestream treatment evaluation, site characterization, subsurface investigations, and remedial design/action. Currently serve as Principal of Pennsylvania Tectonics, Incorporated, a multi-faceted environmental consulting firm serving lending institutions, development corporations and various commercial and residential clients throughout the Mid-Atlantic Region. Recently served as Project Hydrogeologist for a variety of environmental investigation and remediation projects including: the design and implementation of groundwater monitoring networks and soil sampling programs for landfills and underground storage tank farms; review of remedial alternatives; design and implementation of soil and groundwater remedial systems; the completion of Phase I and Phase II Environmental Site Assessments; scoping and oversight of underground storage tank closures, site characterization, and corrective actions.

CREDENTIALS

B.S. - Geosciences, Penn State University, 1987.

Commonwealth of Pennsylvania Registered Professional Geologist

Pennsylvania Department of Environmental Protection Certified UST Installer

OSHA 1910.120 Hazardous Waste Site Training: 40 Hour and Annual 8 Hour.

Member: Association of Groundwater Scientists and Engineers.

Member: National Groundwater Association

Member: The Geological Society of America

EMPLOYMENT HISTORY

1999 – Present	Pennsylvania Tectonics, Incorporated, Archbald, Pennsylvania
1990 – 1999	Synergist, Incorporated, Carbondale & Elverson, Pennsylvania
1987 – 1990	Applied Geotechnical and Environmental Services, Incorporated, Valley Forge, Pennsylvania

KEY PROJECTS

PENNSYLVANIA TECTONICS, INC. - Currently serves as Principal of Pennsylvania Tectonics, Incorporated, a multi-faceted environmental consulting firm serving lending institutions, development corporations and various commercial and residential clients throughout the Mid-Atlantic Region. Pennsylvania Tectonics, Incorporated provides environmental services including Phase I & Phase II Environmental Site Assessments, Transaction Screen Process Reports, Underground Storage Tank Removal Services, Brownfield Services including Site Characterization and Remediation, Public Water Supply, and Watershed Investigations.

SYNERGIST, INC. – Served as Project Manager for the Lackawanna Watershed 2000 Program on the Lackawanna River Basin in Northeastern Pennsylvania. Previously served as Project Manager under the Strategic Environmental Research and Development Program (SERDP) in conjunction with the completion of watershed studies on the Lackawanna River Basin in Northeastern Pennsylvania and the Winters Run River Basin at the Aberdeen Proving Ground in Harford County, Maryland. The associated Scopes of Work included; the completion of the mapping of each basin utilizing GPS and GIS technologies; the generation of channel morphology data utilizing traditional surveying methods; the collection of wet chemistries to determine baseline chemical characteristics of each river system; and the collection of water quality data utilizing in-situ, real-time data collection equipment pursuant to the development of the prototypes and pilot demonstrations for an Environmental Monitoring and Management System (EMMS) under SERDP. In each investigation, the real-time data was collected from the field stations utilizing cellular telephone technologies and downloaded, via modem, to a central data collection laboratory at the National Institute for Environmental Renewal (NIER) located in Mayfield, Lackawanna County, Pennsylvania. As Project Manager, responsibilities also included; coordination with officials of the Army Environmental Center at the Aberdeen Proving Ground; completion of the collection of atmospheric data with field representatives of the Waterways Experimental Station (WES) in Vicksburg, Mississippi; and coordination with local, county and state regulators and authorities.

Conducted evaluations of Publicly Owned Treatment Works (POTW) effluent characterization protocols relative to compliance with PA Clean Streams and US EPA Clean Water Act requirements, as they apply to receiving water limitations on quantities, rates, and concentrations of chemical and physical constituents. Designed and implemented Dye Tracer studies for a variety of commercial and industrial clients, in order to determine the configuration of both sanitary and industrial piping systems. As part of a Design Study relative to a Groundwater Pump and Treat System, evaluated the capability of a private Sewage Treatment Plant to process treated discharges from a hydrocarbon-contaminated wastestream. In support of Permit

Applications for encroachments into wetlands, prepared environmental assessment documentation regarding wetland aerial extent, value, function, adverse impacts and adverse environmental effect.

As Project Hydrogeologist, responsible for the assessment of hydrologic and geologic conditions pertaining to project performance. Projects of note include the initiation and supervision of release investigations in conjunction with failed underground storage tank (UST) systems at numerous sites and UST Closures. These projects typically include the development of test boring and monitoring well networks and soil and groundwater sampling programs in order to discern migration pathways and the extent of potential contamination present at a facility. Responsibilities include: the design and implementation of remedial action plans to address soil and groundwater contamination; associated coordination with regulatory agencies; and the preparation of UST Closure Reports. Remedial action projects include: the design and implementation of vacuum extraction and bioremediation systems to address petroleum contaminated soil and groundwater; and pump and treat remedial systems to address petroleum impacted groundwater in deep, bedrock aquifers. As Project Manager for environmental assessments and site characterizations, responsibilities include the preparation of and adherence to site specific health and safety plans, performance of background reviews and field investigations, oversight of field technicians, data review, and reporting. Projects of note include: the remedial investigation / feasibility study of a 120 acre industrial facility contaminated with various petroleum hydrocarbons, volatile organics and PCBs; hydrogeological study and quarterly monitoring of an abandoned industrial site contaminated with 1,1,1 Trichloroethane; geophysical documents review; and Phase I and Phase II environmental site assessments of commercial and industrial facilities.

APPLIED GEOTECHNICAL AND ENVIRONMENTAL SERVICES (AGES) - As Staff Geologist, duties included the design of groundwater monitoring systems for landfills and UST systems. Responsible for the installation of test borings and construction of groundwater monitoring wells, and the development and implementation of soil and aqueous sampling programs. Also responsible for environmental site assessments; and geotechnical investigations in conjunction with building design and construction, and report preparation. Projects of note include the hydrogeological investigation including project and client coordination for a US Environmental Protection Agency Superfund Site in New Jersey; and numerous geologic investigations for both government agencies and private corporations.

ORGANIZATIONS

- Association of Groundwater Scientists and Engineers
- National Groundwater Association
- The Geological Society of America
- Lackawanna River Corridor Association

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO Box 2649 Harrisburg PA 17105-2649

15 0096239

License Type

Professional Geologist

License Status

Active

Initial License Date

05/02/1994

MARTIN PATRICK GILGALLON
18 OLD MILL ROAD
JERMYN PA 18433

License Number

PG000639G

Expiration Date

09/30/2017



Commissioner of Professional and Occupational Affairs

Signature

DEAN CRUCIANI, CEI, CES

FIELDS OF COMPETENCE

Hazardous waste site characterization and remediation; Phase I and Phase II Environmental Site Assessment; regulatory compliance & assessment -- RCRA, TSCA, SDWA, CERCLA/SARA, and State standards (PADEP, NYDEC, and NJDEP); PADEP Act 2 site characterization and compliance activities; remedial investigations / feasibility studies (RI/FS); test borings and monitoring well installation oversight and sampling; soil and water resource management; underground storage tank compliance, closure, release investigations, site characterization and corrective action; advanced water quality monitoring systems design, implementation and operations; watershed monitoring / modeling; remote and real-time field instrumentation operation and data acquisition; GPS surveying; environmental data collection and management; environmental risk assessment software operations; associated health & safety protocols.

EXPERIENCE SUMMARY

Eighteen years experience in the fields of environmental site assessments, site remediation, water quality and natural resource monitoring and management, and advanced monitoring technology applications. Currently serve as Principal of Pennsylvania Tectonics, Incorporated, a multi-faceted environmental consulting firm serving lending institutions, development corporations and various commercial and residential clients throughout the Mid-Atlantic Region. Recently served as Project Manager for an environmental technologies and services firm engaged in numerous projects aimed at identifying and resolving environmental concerns. Served as Project Manager and Senior Environmental Specialist for watershed evaluation, monitoring and modeling tasks. These tasks involve the deployment of remote advanced monitoring systems, GPS and associated data acquisition tools, database construction/integration tasks and GIS systems integration. Served as Project Manager for numerous environmental remediation/restoration projects, and as Site Supervisor for underground storage tank removals, installations, assessments, soil boring / monitoring well installations and sampling programs.

CREDENTIALS

B.S. - Environmental Resource Management, Pennsylvania State University

Certified Environmental Inspector – Environmental Assessment Association

Certified Environmental Specialist – Environmental Assessment Association

OSHA 1910.120 Hazardous Waste Site Training: 40 Hour and Annual 8 Hour.

EMPLOYMENT HISTORY

1999 – Present	Pennsylvania Tectonics, Incorporated, Archbald, Pennsylvania
1995 – Present	President / Owner, Chapter XI Horse Farm, Greenfield Township, Pennsylvania
1995 - 1999	Synergist, Incorporated, Carbondale & Elverson, Pennsylvania
1994 - 1995	South Valley Corporation, Littleton, Colorado
1993 - 1994	R. K. HydroVac, Pittston, Pennsylvania

KEY PROJECTS

PENNSYLVANIA TECTONICS, INC. - Currently serve as Principal of Pennsylvania Tectonics, Incorporated, a multi-faceted environmental consulting firm serving lending institutions, development corporations and various commercial and residential clients throughout the Mid-Atlantic Region. Pennsylvania Tectonics, Incorporated provides environmental services including Phase I & Phase II Environmental Site Assessments, Transaction Screen Process Reports, Underground Storage Tank Removal Services, Brownfield Services including Site Characterization and Remediation and Watershed Investigations.

SYNERGIST, INC. - Served as Project Manager for US HUD program, a grant funded project designed to spur job creation and economic growth through the development, demonstration, transfer and commercialization of advanced environmental technologies. Responsibilities included identifying emerging market trends, needs, technologies, products and services and collecting, reducing, and implementing the results of the study into a comprehensive report.

Served as Senior Environmental Specialist under the Strategic Environmental Research and Development Program (SERDP) in conjunction with the completion of watershed studies on the Lackawanna River Basin in Northeastern Pennsylvania and the Winters Run River Basin at the Aberdeen Proving Ground in Harford County, Maryland. The program was designed to develop the prototypes and as pilot demonstrations for the Environmental Monitoring and Management System (EMMS). Responsibilities included the mapping of two watershed basins utilizing traditional surveying and sampling methods and GPS/GIS technologies to collect channel morphology data as a baseline. Deployed the EMMS tools to collect additional data. In each investigation, the real-time data was collected from the field stations utilizing cellular telephone technologies and downloaded, via modem, to a central data collection laboratory at the National Institute for Environmental Renewal (NIER) located in Mayfield, Lackawanna County, Pennsylvania.

Recently served as Environmental Specialist for the Lackawanna Watershed 2000 Program on the Lackawanna River Basin in Northeastern Pennsylvania. This project is an EPA funded watershed reclamation project involving acid mine drainage (AMD) and combined sewer overflows (CSO)

identification and remediation, non-point source pollution control method applications, riverbank restoration, and ongoing water quality monitoring.

Project Manager for numerous Phase I and Phase II Environmental Site Assessments, subject to ASTM Standard Practices and client-specific protocols. Responsibilities include client and regulatory agency coordination, historical background reviews, field inspections, and the preparation of formal project reports.

R.K. HYDRO-VAC - Project Manager / Site Supervisor, responsible for the completion of environmental remediation and restoration projects throughout the East Coast Region involving the employment of industrial vacuum units, water blasters, and other heavy equipment. Responsibilities also included client coordination, project team assembly, training, scheduling, quality control, record keeping and reporting.

ORGANIZATIONS

- Environmental Assessment Association
- American Nature Study Society
- Lackawanna River Corridor Association
- National Chapter: Rails-To-Trails

KEVIN CUCURA

FIELDS OF COMPETENCE

Hazardous waste characterization and remediation; Phase I and Phase II Environmental Site Assessment; test borings and monitoring well installation oversight and sampling; underground storage tank compliance, closure, release investigations; watershed monitoring; remote and real-time field instrumentation operation and data acquisition; GPS surveying; environmental data collection and management.

EXPERIENCE SUMMARY

Twelve years in the field of site assessments, site remediation, and water quality and natural resource monitoring and management. Currently serves as Project Manager / Environmental Scientist at Pennsylvania Tectonics, Incorporated, a multi-faceted environmental consulting firm serving lending institutions, development corporations and various industrial, commercial and residential clients throughout the Mid-Atlantic Region. Served as Project Manager for numerous environmental remediation / restoration projects, and as Site Supervisor for underground storage tank removals, assessments, soil boring / monitoring well installations and sampling programs.

CREDENTIALS

B.A. – Environmental Geology, Lock Haven University, 2004

ASTM: Phase I and Phase II Environmental Site Assessments for Commercial Real Estate

Pennsylvania Department of Environmental Protection Certified UST Installer

OSHA 1910.120 Hazardous Waste Site Training: 40 Hour

EMPLOYMENT HISTORY

2004 – Present Pennsylvania Tectonics, Incorporated, Archbald, Pennsylvania

KEY PROJECTS

PENNSYLVANIA TECTONICS, INC. – served as Project Manager for the Lackawanna River 2000 Program on the Lackawanna River Basin in Northeast Pennsylvania. This project is an EPA funded watershed reclamation project involving acid mine drainage (AMD) and combined sewer overflows (CSO) identification and remediation, non-point source pollution control method applications, riverbank restoration, and water quality monitoring.

PENNSYLVANIA TECTONICS, INC. – served as Project Manager for a US Army Corps of Engineers funded project, aimed at assessing tributaries and their confluences in the upper Lackawanna River watershed in Northeast Pennsylvania. The project involved quantifying metal concentrations (Aluminum, Total Iron, Ferrous Iron and Manganese) versus flow and monitoring water quality in the Lackawanna River and its tributaries.

JERRY LUCHANSKY

FIELDS OF COMPETENCE

Phase I and Phase II Environmental Site Assessment; Test borings and monitoring well installation oversight and sampling; watershed monitoring; remote and real-time field instrumentation operation and data acquisition; GPS surveying; environmental data collection and management.

EXPERIENCE SUMMARY

Eight years in the field of site assessments, site remediation and water quality and natural resource monitoring and management. Currently serves as Project Manager / Environmental Specialist at Pennsylvania Tectonics, Incorporated, a multi-faceted environmental consulting firm serving lending institutions, development corporations and various industrial, commercial and residential clients throughout the Mid-Atlantic Region.

CREDENTIALS

B.S. – Environmental Science, King’s College, 2007

OSHA 1910.120 Hazardous Waste Site Training: 40 Hour and Annual 8 Hour

24-Hour Asbestos Building Inspector Initial Training (Certification #045512)

PADEP Certified UST Installer (UMR Certification #5579)

EMPLOYMENT HISTORY

2008 – Present Pennsylvania Tectonics, Incorporated, Archbald, Pennsylvania

KEY PROJECTS

PENNSYLVANIA TECTONICS, INC. – Currently serves as Environmental Specialist for Pennsylvania Tectonics, Incorporated. Pennsylvania Tectonics, Incorporated provides environmental services including Phase I & Phase II Environmental Site Assessments, Transaction Screen Process Reports, Underground Storage Tank Removal Services, Brownfield Services including Site Characterization and Remediation and Watershed Investigations.

APPENDIX D

Lackawanna County Property Deeds

135

Hanks, fourteen hundred (1400) feet more or less to the southeast corner of lot of Madeline Miller thence in an irregular line in a general northerly direction along the rear of lands of said Madeline Miller, Edith Dora Miller, Peter Lamm, Margaret Dorothy Lamm, Estella May Lamm, Mary Wilhelmina Lamm and Peter Lamm, now Stanley Brostoski, et ux., seven hundred and seventy-four (774) feet more or less to a point; thence South eighty-seven (87) degrees no minutes West one hundred sixty (160) feet to the easterly sideline of the Drinker Turnpike; thence northerly along said sideline two hundred forty (240) feet to the place of beginning. Containing twenty-three (23) acres, more or less.

Courses and distances given in the foregoing description are as shown by a map or plot made of the Peter Lamm Farm, Daleville, Lackawanna County, Pennsylvania, October 15, 1945, by C. M. Roberts, Engineer, intended to be recorded.

Being part of the same premises conveyed by Carmella Elaine Terrery to Meta Oellgaard, by deed dated November 1, 1945, intended to be heretofore duly recorded; said parcel also includes all the premises conveyed by E. G. Gage and Ann Gage, his wife, to Meta Oellgaard, by deed dated January 3, 1946 and also intended to be heretofore duly recorded.

And the said Meta Oellgaard and Axel Oellgaard, her husband, grantors, do by these presents covenant, promise and agree that they will warrant Generally the property hereby conveyed.

In Witness Whereof, said grantors have hereunto set their hands and seals the day and year first above written.

Sealed and Delivered in the Presence of L. D. Savige (I. R. S. #3.30) Meta Oellgaard (Seal) Axel Oellgaard (Seal)

STATE OF PENNSYLVANIA) On This, the 18th day of July 1946, before me a Notary Public COUNTY OF LACKAWANNA) SS: duly commissioned, the undersigned officer, personally appeared Meta Oellgaard and Axel Oellgaard, her husband, Known to me, or satisfactorily proven to be, the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same for the purpose therein contained

In Witness Whereof, I hereunto set my hand and official seal. Laurence D. Savige (N. P. Seal) Notary Public My Comm Exp: march 9, 1949 Cert. Add. of Grantees is, River St., Olyphant, Pa. M. J. Kushmeriek, Atty. Rec. Jul. 18, 1946 at 12:32 P. M.

HENRY R. LEWIS, ET UX TO LLOYD G. LEWIS, ET AL Olyphant RD#1 Olyphant, Pa.

THIS DEED, Made the 8th day of July, in the year of our Lord one thousand nine hundred and Forty-six. BETWEEN HENRY R. LEWIS and MARY JANE LEWIS, his wife, CLARENCE A. LEWIS and DOROTHY LEWIS, his wife, all of the Borough of Blakeley, County of Lackawanna, and State of Pennsylvania, EDWARD A. LEWIS, single, ELWOOD M. LEWIS single, of the Township of Scott, County of Lackawanna and State of Pennsylvania, hereinafter called the

Grantors, to LLOYD G. LEWIS, MARSHALL T. LEWIS, JOHN P. LEWIS, all of The Township of Scott, County of Lackawanna and State of Pennsylvania, hereinafter called the Grantees.

WITNESSETH, that in consideration of One (\$1.00) Dollar and other good and valuable consideration, Dollars, in hand paid, the receipt whereof is hereby acknowledged; the Grantors do hereby grant and convey to the said Grantees, their Heirs and Assigns,

All that certain piece or parcel of land situate in the Township of Scott, County of Lackawanna, and State of Pennsylvania, bounded and described as follows, to wit:

Beginning at a corner common to the family driveway of the Grantors and Grantees herein, where said driveway intersects with the state road leading from Dickson City to Wallsville; thence along said family driveway a distance of One Hundred and Seventy-five (175) feet more or less to a creek; thence along the course and distance of said creek a distance of one Hundred and Twenty-five (125) feet; thence at right angle with said creek a distance of One Hundred and Seventy-five (175) feet to the aforesaid state road leading from Dickson City to Wallsville; thence along said state road a distance of One Hundred and Twenty-five (125) feet to the Place of beginning, said parcel being rectangular in shape One Hundred and Twenty-five (125) feet fronting on the state road leading from Dickson City to Wallsville and One Hundred and Seventy-five (175) feet in depth.

Being a part of the same property conveyed by Jerome Britton, and Frances Britton, his wife, to Henry R. Lewis by deed dated March 18, 1907 and recorded in the proper office for recording of deeds in Lackawanna County, Pennsylvania, in Deed Book 223, Page 95. Said Henry R. Lewis Having died testate by his will duly probated in the Register of Wills Office in Will Book 82 Page 106 County and State aforesaid devised said premises to his wife, Minnie Louis, who died in testate on _____1945, vesting title by Operation of Law in the grantors and grantees herein.

The Grantees herein have not requested a title search. And the said Grantors Will Warrant generally the property hereby conveyed.

In Witness Whereof, the Grantors have hereunto set their hands and seal the day and year first above written.

Signed, Sealed and Delivered in the presence of Henry R. Lewis (Seal) Mary Jane Lewis (Seal) Clarence A. Lewis (Seal) Dorothy Lewis (Seal) Edward A. Lewis (Seal) Elwood M. Lewis (Seal)

COMMONWEALTH OF PENNSYLVANIA) ON this, the 8th day of July A. D. 1946, before me a COUNTY OF LACKAWANNA) SS: Justice of the Peace, duly commissioned, personally appeared Henry R. Lewis, Mary Jane Lewis, Clarence A. Lewis, Dorothy Lewis, Edward A.

134

Lewis and Elwood M. Lewis Known to me (or satisfactorily proven) to be the person whose names are subscribed to the within instrument, and acknowledged that they executed the same for the purposes therein contained.

In Witness Whereof, I hereunto set my hand and official seal.
Add. of Grantee is, Walter D. Fish (J. P. Seal)
Glyphant RD#1, Glyphant, Pa. Justice of the Peace
Rec. Jul. 18, 1946 at 2:12 P. M. My Comm. Exp: on the First Monday of January, 1950

MATTHEW WEDLOCK, ET AL

TO

CHARLES LAYLAND, ET AL
121 S. Bromley Ave.,
Scranton, Pa.

THIS DEED, Made The 3rd day of June A.D. 1946. BETWEEN MATTHEW WEDLOCK and MADELINE WEDLOCK, His wife, in right of said wife; THOMAS F. LAYLAND and IRENE LAYLAND, his wife; RALPH LAYLAND and CATHERINE LAYLAND, his wife; MANDEL JENKINS and MARY JENKINS, his wife, in right of said wife; all of the City of

Scranton, County of Lackawanna and State of Pennsylvania, hereinafter called the Grantors, and CHARLES LAYLAND, VINCENT LAYLAND and DORREEN LAYLAND, of THE same place, hereinafter called the Grantees.

WITNESSETH, that in consideration of One (\$1.00) Dollars, in hand paid, the receipt whereof is hereby acknowledged; the said Grantors do hereby release and quit claim to the said Grantees, their Heirs and Assigns

All that certain lot of land situate in the Old Borough of Hyde Park, now City of Scranton, County of Lackawanna and State of Pennsylvania, known as Lot Number Sixteen (16) in square or Block Number One (1) and fronting on Prospect Street, now called Bromley Avenue; being twenty-five (25) feet in front by about one hundred thirty-six and two-tenths (136.2) feet in depth, according to a plan or map entitled "Price & Panceast Addition to the City of Scranton".

Being the same premises conveyed by William J. Fox et ux. to David M. Owens by deed dated February 1, 1929 and recorded in Lackawanna County in Deed Book No. 326, Page 417; the said David M. Owens died, testate, December 22, 1933 and by his last will and testament enrolled in Lackawanna County in Will Book No. 60, page 509, devised the above described premises in fee to Hannah Layland who died, intestate, leaving to survive her the parties hereto as her children and sole heirs at law.

The purpose of this deed is to vest in the grantees all the right, title and interest of the grantors in and to the above described premises.

In Witness Whereof, the Grantors have hereunto set their hands and seals the day and year first above written.

Signed, Sealed and Delivered in the presence of

Matthew Wedlock (Seal)
Madeline Wedlock (Seal)
Thomas F. Layland (Seal)
Irene Layland (Seal)
Ralph Layland (Seal)
Catherine Layland (Seal)
Mandel Jenkins (Seal)
Mary Jenkins, (Seal)

COMMONWEALTH OF PENNSYLVANIA)
COUNTY OF LACKAWANNA)SS.

On This, the 28th day of June A.D.1946, before me the undersigned officer, personally appeared Matthew Wedlock and Madeline Wedlock, his wife; Thomas F. Layland and Irene Layland, his wife; Ralph Layland and Catherine Layland, his wife; and Mandel Jenkins and Mary Jenkins, his wife, known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same for the purposes therein contained.

In Witness Whereof, I hereunto set my hand and official seal.
Add. of Grantee's is, Mary Duffy (N. P. Seal)
121 S. Bromley Ave., Scranton, Pa. Notary Public
Rec. Jul. 18, 1946 at 2:32 P. M. My Comm. EXP: Moh. 25, 1949

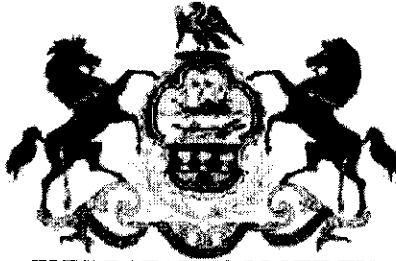
BLANCHE WINTERS

TO

JAMES A. DURKAN, ET UX
512 Third St.,
Dunmore, Pa.

THIS DEED, Made the 18th day of July A.D.1946. BETWEEN BLANCHE WINTERS, widow, also known as BLANCHE C. WINTERS, of the Borough of Dunmore, County of Lackawanna and State of Pennsylvania, hereinafter called the Grantor, and JAMES A. DURKAN and MARY M. DURKAN, his wife, of the same place, hereinafter called the Grantees.

WITNESSETH, That in consideration of One (1) Dollar, in hand paid, the receipt whereof is hereby acknowledged; the said Grantor does hereby grant and convey to the said Grantees, their heirs or assigns.



EVIE RAFALKO McNULTY
LACKAWANNA COUNTY RECORDER OF DEEDS
 Scranton Electric Building
 607 Linden Street
 Scranton, Pennsylvania 18503
 (570) 963-6775

Instrument Number - 200717434

Recorded On 6/29/2007 At 10:07:18 AM

* Total Pages - 4

* Instrument Type - DEED

Invoice Number - 83201

User - MN

* Grantor - TIZZONI, LISA

* Grantee - LEWIS, JOHN P

* Customer - LAURA PRICE HURNYAK

* FEES

STATE TRANSFER TAX	\$250.00
STATE WRIT TAX	\$0.50
STATE JCS/ACCESS TO JUSTICE	\$10.00
RECORDING FEES - RECORDER OF DEEDS	\$13.00
AFFORDABLE HOUSING	\$13.00
PARCEL CERTIFICATIONS	\$2.00
COUNTY IMPROVEMENT FEE	\$2.00
ROD IMPROVEMENT FEE	\$3.00
LAKELAND SCHOOL REALTY TAX	\$125.00
SCOTT TOWNSHIP	\$125.00
TOTAL PAID	\$543.50

This is a certification page

DO NOT DETACH

This page is now part
of this legal document.

RETURN DOCUMENT TO:

LAURA PRICE HURNYAK
 102 N. ABINGTON ROAD
 SUITE 102A
 CLARKS GREEN, PA 18411
 ATTN: PICK UP

I hereby CERTIFY That this document is
 recorded in the Recorder of Deeds Office
 of Lackawanna County, Pennsylvania.



Evie Rafalko McNulty

Evie Rafalko McNulty
 Recorder of Deeds

* - Information denoted by an asterisk may change during
 the verification process and may not be reflected on this page.

01A1BC



LACKAWANNA COUNTY
CERTIFIED PROPERTY IDENTIFICATION

MUNI: 73
PIN: 09204 040 017
USE: _____ ASSESS VAL: 11,500
DATE: 6-29-07 Rm
CLERK

THIS DEED

Made the 25th day of June in the year of our Lord two thousand seven (2007)

BETWEEN Lisa Tizzoni, individually and as Executrix of the Estate of Lloyd G. Lewis, deceased, of the Township of Scott, County of Lackawanna, Commonwealth of Pennsylvania, Party of the First Part, GRANTOR

- AND -

John P. Lewis and Ruth Lewis, his wife, of the Township of Scott, County of Lackawanna, Commonwealth of Pennsylvania, Parties of the Second Part, hereinafter referred to as GRANTEES

WITNESSETH, that in consideration of Twenty-five Thousand (\$25,000.00) Dollars, in hand paid, the receipt whereof is hereby acknowledged, the Grantors do hereby grant and convey to the said Grantees, their Heirs and Assigns,

ALL Grantor's undivided one-third (1/3) interest in and to all that certain piece or parcel of land situate in the Township of Scott, County of Lackawanna, and State of Pennsylvania, bounded and described as follows, to wit:

Beginning at a corner common to the family driveway of the Grantors and Grantees herein, where said driveway intersects with the state road leading from Dickson City to Wallsville; thence along said family driveway a distance of one hundred and seventy-five (175) feet more or less to a creek; thence along the course and distance of said creek a distance of one hundred and twenty-five (125) feet; thence at right angles with said creek a distance of one hundred and seventy-five (175) feet to the aforesaid state road leading from Dickson City to Wallsville; thence along said state road a distance of one hundred and twenty-five (125) feet to the place of beginning, said parcel being rectangular in shape one hundred and twenty-five (125) feet fronting on the state road leading from Dickson City to Wallsville and one hundred and seventy-five (175) feet in depth.

Being the same premises conveyed from Henry R. Lewis and Mary Lane Lewis, his wife, et al., to Lloyd G. Lewis, Marshall T. Lewis, and John P. Lewis by deed dated July 8, 1946, and recorded in the Office of the Recorder of Deeds of Lackawanna County in Deed Book 466, page 135.

The said Lloyd G. Lewis died testate December 30, 2006, leaving a Last Will and Testament which was duly probated with the Register of Wills of Lackawanna County to Estate Number 35-07-00491. Under the terms of said Last Will and Testament, Lisa Tizzoni was duly appointed as Executrix of the estate, said Letters Testamentary still being in full force and effect.

Under the terms of decedent's Last Will and Testament, the decedent's interest in the subject real estate, more fully described below, was devised to Lisa Tizzoni, Grantor herein.

Subject to the same rights, reservations, restrictions, easements, and conditions as contained in former instruments in the chain of title.

Hazardous waste, as defined by the Solid Waste Management Act No. 1980-97 and regulations, has never been and is not presently being disposed by the Grantor or to the Grantor's knowledge in or on the premises hereby conveyed.

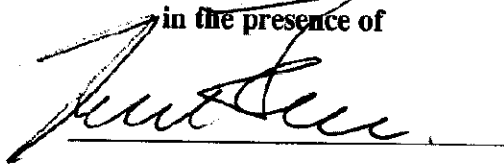
PIN: 09204-040-017

THIS DOCUMENT MAY NOT SELL, CONVEY, TRANSFER, INCLUDE OR INSURE THE TITLE TO THE COAL AND RIGHT OF SUPPORT UNDERNEATH THE SURFACE LAND DESCRIBED OR REFERRED TO HEREIN, AND THE OWNER OR OWNERS OF SUCH COAL MAY HAVE THE COMPLETE LEGAL RIGHT TO REMOVE ALL OF SUCH COAL AND, IN THAT CONNECTION, DAMAGE MAY RESULT TO THE SURFACE OF THE LAND AND ANY HOUSE, BUILDING OR OTHER STRUCTURE ON OR IN SUCH LAND. THE INCLUSION OF THIS NOTICE DOES NOT ENLARGE, RESTRICT OR MODIFY ANY LEGAL RIGHTS OR ESTATES OTHERWISE CREATED, TRANSFERRED, EXCEPTED OR RESERVED BY THIS INSTRUMENT.

And the Grantor will warrant specially the property hereby conveyed.

IN WITNESS WHEREOF, the Grantor has hereunto set her hand and seal the day and year first above written.

Signed, Sealed and Delivered
in the presence of

 (Seal)

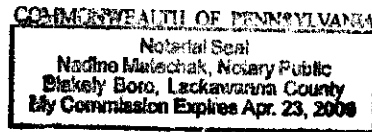
LISA TIZZONI, INDIVIDUALLY
AND AS EXECUTRIX OF THE ESTATE
OF LLOYD G. LEWIS, DECEASED

Commonwealth of Pennsylvania)
) ss.
County of Lackawanna)

On this, the 25th day of June A.D. 2007, before me, a Notary Public, the undersigned Officer, personally appeared **Lisa Tizzoni, individually and as Executrix of the Estate of Lloyd G. Lewis, deceased**, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that she executed the same for the purposes therein contained.

In Witness Whereof, I hereunto set my hand and official seal.

Nadine Matichak
Notary Public



I Hereby Certify that the precise address of the Grantees is:

RR#2 Box 57
Olyphant, PA 18447

Sandra Rose Hurmyak
Attorney for Grantees



EVIE RAFALKO McNULTY
LACKAWANNA COUNTY RECORDER OF DEEDS
 Scranton Electric Building
 507 Linden Street
 Scranton, Pennsylvania 18503
 (570) 963-6775

Instrument Number - 200717435

Recorded On 6/29/2007 At 10:11:13 AM

* Total Pages - 4

* Instrument Type - DEED

Invoice Number - 83202

User - MN

* Grantor - LEWIS, JOHN P

* Grantee - LEWIS, JOHN P

* Customer - LAURA PRICE HURNYAK

* FEES

STATE WRIT TAX	\$0.50
STATE JCS/ACCESS TO JUSTICE	\$10.00
RECORDING FEES - RECORDER OF DEEDS	\$13.00
AFFORDABLE HOUSING	\$13.00
PARCEL CERTIFICATIONS	\$10.00
COUNTY IMPROVEMENT FEE	\$2.00
ROD IMPROVEMENT FEE	\$3.00
TOTAL PAID	\$51.50

This is a certification page

DO NOT DETACH

This page is now part of this legal document.

RETURN DOCUMENT TO:
 LAURA PRICE HURNYAK
 102 N. ABINGTON ROAD
 SUITE 102A
 CLARKS GREEN, PA 18411
 ATTN: PICK UP

I hereby CERTIFY That this document is recorded in the Recorder of Deeds Office or Lackawanna County, Pennsylvania.



Evie Rafalko McNulty

Evie Rafalko McNulty
 Recorder of Deeds

* - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.

01A1BD



LACKAWANNA COUNTY
CERTIFIED PROPERTY IDENTIFICATION

10 40
MUNI: 73
PIN: 09204 040 017
USE: _____ ASSESS VAL: 11,500
DATE: 6-29-07 Zu
CLERK

This Deed

Made the 27th day of June in the year Two Thousand and Seven (2007)

BETWEEN JOHN P. LEWIS, of the Township of Scott, County of Lackawanna, Commonwealth of Pennsylvania hereinafter referred to as the Grantors,

A
N
D

JOHN P. LEWIS and RUTH LEWIS, HIS WIFE, of the Township of Scott, County of Lackawanna and Commonwealth of Pennsylvania hereinafter referred to as the Grantees,

WITNESSETH that in consideration of the sum of One (\$1.00) Dollar, in hand paid, the receipt whereof is hereby acknowledged, the Grantors do hereby grant and convey to the Grantees, their Heirs and Assigns,

ALL Grantor's undivided one-third (1/3) interest in and to all that certain piece or parcel of land situate in the Township of Scott, County of Lackawanna, and Commonwealth of Pennsylvania, bounded and described as follows, to wit:

BEGINNING at a corner connected to the family driveway of the Grantors and Grantees herein, where said driveway intersects with the state road leading from Dickson City to Wallsville;

THENCE along said family driveway a distance of One Hundred and Seventy-five (175) feet more or less to a creek;

THENCE along the course and distance of said creek a distance of One Hundred and Twenty-five (125) feet;

THENCE at right angle with said creek a distance of One Hundred and Seventy-five (175) feet to the aforesaid state road leading from Dickson City to Wallsville;

THENCE along said state road a distance of One Hundred and Twenty-five (125) feet to the place of **BEGINNING**, said parcel being rectangular in shape One Hundred and Twenty-

Map No. #09204-040-017

BEING the same property transferred by deed from Henry R. Lewis and Mary Jane Lewis, his wife, Clarence A. Lewis and Dorothy Lewis, his wife, and Edward A. Lewis, single, and Elwood M. Lewis, single, to Lloyd G. Lewis, Marshall T. Lewis and John P. Lewis by deed dated July 8, 1946 and recorded July 18, 1946 in the Office of Recorder of Deeds of Lackawanna County in Volume 466 at Page 135.

NO TITLE SEARCH WAS REQUESTED IN THE PREPARATION OF THIS DEED

THIS TRANSACTION IS TAX EXEMPT BECAUSE IT IS A TRANSFER BETWEEN HUSBAND AND WIFE

THIS DOCUMENT MAY NOT SELL, CONVEY, TRANSFER, INCLUDE OR INSURE THE TITLE TO THE COAL AND RIGHT OF SUPPORT UNDERNEATH THE SURFACE LAND DESCRIBED OR REFERRED TO HEREIN, AND THE OWNER OR OWNERS OF SUCH COAL HAVE THE COMPLETE LEGAL RIGHT TO REMOVE ALL OF SUCH COAL AND, IN THAT CONNECTION, DAMAGE MAY RESULT TO THE SURFACE OF THE LAND AND ANY HOUSE, BUILDING OR OTHER STRUCTURE ON OR IN SUCH LAND. THE INCLUSION OF THIS NOTICE DOES NOT ENLARGE, RESTRICT OR MODIFY ANY LEGAL RIGHTS OR ESTATES OTHERWISE CREATED, TRANSFERRED, EXCEPTED OR RESERVED BY THIS INSTRUMENT.

And the said Grantor does hereby specially warrant the property hereby conveyed.



EVIE RAFALKO MCNULTY
 Lackawanna County Recorder of Deeds
 Gateway Center
 135 Jefferson Avenue
 Scranton, Pennsylvania 18503

This is a certification page
 This page is now part of this legal document – DO NOT DETACH



INSTRUMENT #: 201412066

Receipt#: 231985
 Clerk: EN
 Rec Date: 08/08/2014 01:02:53 PM
 Doc Grp: D
 Descrip: DEED
 Num Pgs: 4
 Rec'd Frm: PESOTA JOHN

Party1: LEWIS MARSHALL T JR
 Party2: LEWIS RUTH D
 Town: SCOTT TOWNSHIP

Consideration: 30000.00
 Taxable Amount: 30000.00
 Assessed Value: 11500.00

Recording:

Recording Fees - ROD	13.00
Parcel Certification	10.00
State Writ Tax	0.50
State JCS/Access to Justi	35.50
Affordable Housing	13.00
County Improvement Fee	2.00
ROD Improvement Fee	3.00

Sub Total: 77.00

Transfer Tax	
STATE TRANSFER TAX	300.00
SCOTT TOWNSHIP	150.00
LAKELAND SCHOOL DISTRICT	150.00

Sub Total: 600.00

Total: 677.00

**** NOTICE: THIS IS NOT A BILL ****

I hereby CERTIFY that this document is recorded in the Recorder of Deeds Office of Lackawanna County, Pennsylvania.



Evelyn Rafalko McNulty
 Evelyn Rafalko McNulty
 Recorder of Deeds

** Information may change during the verification process and may not be reflected on this page.

Record and Return To:

PESOTA JOHN
 108 N WASHINGTON AVE
 SCRANTON BANK BLDG 7TH FLOOR
 SCRANTON PA 18503
 BOX 117

DEED

Made this 17TH day of JUNE, in the year Two Thousand and Fourteen (2014),

BETWEEN MARSHALL T. LEWIS, JR., of 12 Koehler Road, Scott Township, Pennsylvania 18447, party of the first part, hereinafter called the "**Grantor**"

AND

RUTH D. LEWIS, widow, of 3 Hunts Court, South Abington Township, Pennsylvania 18411, party of the second part, hereinafter called the "**Grantee**"

WITNESSETH, that in consideration of **THIRTY THOUSAND AND 00/100 (\$30,000.00) DOLLARS**, in hand paid, the receipt whereof is hereby acknowledged, the said Grantor does hereby quit claim and release to the Grantee, her heirs and assigns:

ALL Grantor's undivided one-third (1/3) interest in and to all that certain piece or parcel of land situate in the Township of Scott, County of Lackawanna, and Commonwealth of Pennsylvania, bounded and described as follows, to wit:

BEGINNING at a corner common to the family driveway of the Grantors and Grantees herein, where said driveway intersects with the state road leading from Dickson City to Wallsville; thence along said family driveway a distance of one hundred and seventy-five (175) feet more or less to a creek; thence along the course and distance of said creek a distance of one hundred and twenty-five (125) feet; thence at right angles with said creek a distance of one hundred and seventy-five (175) feet to the aforesaid state road leading from Dickson City to Wallsville; thence along said state road a distance of one hundred and twenty-five (125) feet to the place of beginning, said parcel being rectangular in shape one hundred and twenty-five (125) feet fronting on the state road leading from Dickson City to Wallsville and one hundred and seventy-five (175) feet in depth.


BEING the same premises conveyed from Henry R. Lewis and Mary Lane Lewis, his wife, et. al., to Lloyd G. Lewis, Marshall T. Lewis, and John P. Lewis by Deed dated July 8, 1946, and recorded in the Office of the Recorder of Deeds of Lackawanna County in Deed Book 466, page 135. The said Marshall T. Lewis died intestate on March 17, 1981 and he was survived by his spouse, Mary Grace Lewis and his son, Marshall T. Lewis, Jr. (the Grantor herein). The said Mary Grace Lewis died testate on December 28, 1987 and by her Last Will and Testament, which is probated to Lackawanna County Estate No. 972-1987, she devised all of the rest, residue and remainder of her estate, including her ownership interest in the subject premises to her son, Marshall T. Lewis, Jr., who is the Grantor named hereinabove.

PIN: 09204-040-017.

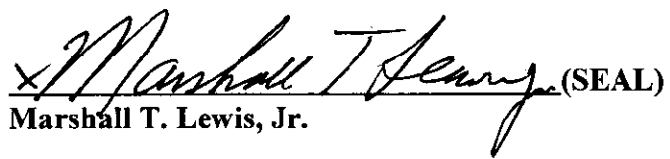
THIS DOCUMENT MAY NOT SELL, CONVEY, TRANSFER, INCLUDE OR INSURE THE TITLE TO THE COAL AND RIGHT OF SUPPORT UNDERNEATH THE SURFACE LAND DESCRIBED OR REFERRED TO HEREIN, AND THE OWNER OR OWNERS OF SUCH COAL MAY HAVE THE COMPLETE LEGAL RIGHT TO REMOVE ALL OF SUCH COAL AND, IN THAT CONNECTION, DAMAGE MAY RESULT TO THE SURFACE OF THE LAND AND ANY HOUSE, BUILDING OR OTHER STRUCTURE ON OR IN SUCH LAND, THE INCLUSION OF THIS NOTICE DOES NOT ENLARGE, RESTRICT OR MODIFY ANY LEGAL RIGHTS OR ESTATES OTHERWISE CREATED, TRANSFERRED, EXCEPTED OR RESERVED BY THIS INSTRUMENT.

IN WITNESS WHEREOF, said Grantor has hereunto set his hand and seal the day and year first above written.

SIGNED, SEALED AND DELIVERED
IN THE PRESENCE OF:



Witness



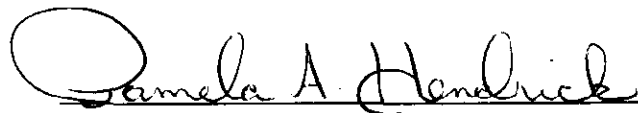
Marshall T. Lewis, Jr.

LACKAWANNA COUNTY
Certified Property Identification
MUNI: 73
AUG 8 - 2014
PIN: 09204 040 017
USE: 1000 ASSESS VAL 11,500
CLERK AN
1000

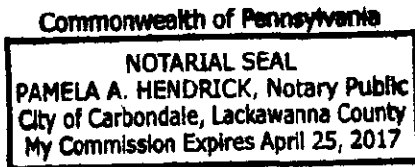
COMMONWEALTH OF PENNSYLVANIA :
: ss.
COUNTY OF LACKAWANNA :

On this, the 17TH day of JUNE, 2014, before me, a Notary Public in and for the Commonwealth of Pennsylvania, the undersigned officer, personally appeared **Marshall T. Lewis, Jr.**, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument and he acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

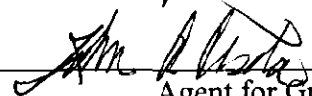


Notary Public



I certify that the precise address of the Grantee herein is:

3 HUNTS COUET
SOUTH ABINGTON TOWNSHIP, PA 18411



Agent for Grantee

APPENDIX E

Lackawanna County Property Cards

WARD

092.04.04-17

PARCEL NO.

LOT NO.

BLOCK NO.

MAP NO.

Name Lewis Bros.

Location Rd. Dickson to Hustus

City Township Scott

Mailing Address RD #1 Olyphant Same

Grantor

Grantee

Date

Deed Book

Page

Sale Price

Or Stamps

TOPOGRAPHY

STREET IMPROVEMENTS

Level	Sidewalks	Paved
High	Sewer	Semi-improved
Low	Water	Dirt

LAND VALUE COMPUTATIONS

Frontage	Depth	Depth Factor	Rate	Adjustments	Market Value
	1/2 Acre				

Type	No. of Acres	Rate	Market Value
Cultivated			\$
Pasture			\$
Woodland			\$
Waste Land			\$
TOTAL			

MARKET VALUE

ASSESSED VALUATION

Land	\$		\$
Bldg.	\$		\$
Bldg. <i>additions</i>	\$ 3500		\$ 1325
Bldg.	\$		\$
Garage	\$		\$
Total Value	\$ 15,000.00		\$ 4,200.00

Total Land	\$	11500	\$ 2025
Total Bldgs.	\$		
Assessment Ratio			35%

*Added - for prior 1978
 Addition to old house (same owner)
 30' x 28' - 1/2 acre (same owner)*

TYPE	USE	NO. OF STORIES	SIZE OF BUILDINGS	GENERAL INFORMATION ABOUT BUILDING CALCULATIONS
Single Family Two Family Three Family Apartments Stores Offices Com. Garage	Hotel Theater Gas Station Warehouse Industrial Farm	1 <input checked="" type="checkbox"/> 2 1/2 <input type="checkbox"/> 3 or more <input type="checkbox"/>	No. 1 20x40x9 26x14x8	A. MAIN BUILDING SIZE (Check and enter number of feet) <input type="checkbox"/> CUBIC <input type="checkbox"/> SQUARE Rate Per Foot \$ Replmt. Cost New \$ Depreciation-Physical \$ Functional \$ Economic \$ Total Depreciation \$ Depreciated Cost \$ B. OTHER BUILDING SIZE (Check and enter number of feet) <input type="checkbox"/> CUBIC <input type="checkbox"/> SQUARE Rate Per Foot \$ Replmt. Cost New \$ Depreciation-Physical \$ Functional \$ Economic \$ Total Depreciation \$ Depreciated Cost \$

CONVENTIONAL RANCH TYPE MODERN	DESIGN	ROW TYPE
		PRE-FAB
Grade	A B C	<input checked="" type="checkbox"/>
GRADE		

NOTES
 Cinder Block & Wood Const.

Address to see property
 Phone - 301 28
 Garage 30x70

APPRAISAL REVIEW

DATE	LAND	BLDGS.	TOTAL	ASSESSORS
9/19/69				<i>Lorenzett & Gallo</i>
19				
19				
19				
19				
19				
19				
19				
19				
19				

APPEALS

Date	Action

TYPE	CONSTRUCTION	FLOORS		
		B	I	2
Concrete		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cinder Block		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Brick or Stone		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Basement Area Full		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Basement Area Partial		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No Basement		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TYPE	CONSTRUCTION	INTERIOR FINISH		
		B	I	2
Wood Siding		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aluminum Siding		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wood Shingles		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asphalt		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asbestos		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stucco on Frame		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stucco on Masonry		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brick Venagr		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brick on Masonry		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stone on Masonry		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Follow Tile		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conc. or Cind. Block		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TYPE	CONSTRUCTION	HEATING		
		B	I	2
Forced Air Furnace		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hot Air Furnace		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electric Heating		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hot Water or Vapor		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pipeless Furnace		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No Heating		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil <input checked="" type="checkbox"/> Coal <input type="checkbox"/> Gas <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Auto. Burner		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit Heaters		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Conditioning		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City Steam		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TYPE	CONSTRUCTION	PLUMBING		
		B	I	2
Bath Rooms		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Toilet Room		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modern Fixtures		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Obsolete Fixtures		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TYPE	CONSTRUCTION	TILING		
		B	I	2
Ceramic		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alum. or Steel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plastic or Hardboard		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NO. OF ROOMS	ASMT.	Ind	Age of Bldg. (Economic)	
			1st	3rd
3				

36

756 680

Name: **AFENTIS BRAS**
 Lewis Bras
 Location: **Rd. Dickson to first bar**
 Owner's Address: **Olyphant Pa. RD #1**

Card No. }
 City } **Scott**
 Boro. }
 Twp. }
 Ward }
 Block }
 Lot }

Size of Lot	Sq. Ft.	Rate	VALUATION
House No. 1 Type	Dimensions		
Description			
House No. 2 Type	Dimensions		
Description			
Other Improvements: (Check Which)			
Garage 30x70			870
Barn			620
Description New Addition display Room 20x40x12 b7A			390
Other Improvements: (Check Which)			
Garage 30x70			870
Barn			620
Description Breaker Seamer etc 2 pumps			250
Improved Acres	12	5.0	
Unimproved Acres			
Total Valuation			1253 860

~~1253 860~~
545

Yr. For Which Assessment Is Made	Date of Assessment	Name of Assessors Making Assessment
Formally	Henry R. Lewis	Delevan
1949	9 - 48	Convery
Note in 1951 book		
To John P. Riddick signed for 1952		Lewko Bros
Correct owner name	new measure 30 x 70	40 R.
1953	3-4-53	Rockwell Marwick
no addition for 1953		R. R. R.
1955	12/7/54	Marwick
REMARKS:		

WORK SHEET

WARD *Scott*

CARD NO.	MAP NO.	BLOCK NO.	LOT NO.	PARCEL NO.	
Name <i>Lewis, R. W.</i> Location <i>101st Road, Chester Twp.</i> City <i>Scott</i> Township <i>Scott</i> Borough <i>Same</i> Mailing Address <i>R. W. Lewis</i>					
Grantor					
Grantee					
Date	Deed Book	Page			
Sale Price	Or Stamps				
TOPOGRAPHY					
Level	Sidewalks	Paved			
High	Sewer	Semi-improved			
Low	Water	Dirt			
LAND VALUE COMPUTATIONS					
Frontage	Depth	Depth Factor	Rate	Adjustments	Market Value
Type	No. of Acres	Rate	Market Value		
Cultivated			\$		
Pasture			\$		
Woodland			\$		
Waste Land			\$		
TOTAL					

MARKET VALUE		ASSESSED VALUATION	
Land	\$	Land	\$
Bldg.	\$	Bldg.	\$
Bldg.	\$	Bldg.	\$
Bldg.	\$	Bldg.	\$
Garage	\$ 3,500	Garage	\$ 1,200
Total Value	\$ 3,500	Total Assessment	\$ 1,200
Total Land		Total Land	
Total Bldgs.		Total Bldgs.	
Assessment Ratio		Assessment Ratio	
		35%	

add on to add cost

GENERAL INFORMATION ABOUT BUILDING CALCULATIONS

A. MAIN BUILDING SIZE (Check and enter number of feet) CUBIC SQUARE

Rate Per Foot \$

Replmt. Cost New \$

Depreciation Physical \$

Functional \$

Economic \$

Total Depreciation \$

Depreciated Cost \$

B. OTHER BUILDING SIZE (Check and enter number of feet) CUBIC SQUARE

Rate Per Foot \$

Replmt. Cost New \$

Depreciation-Physical \$

Functional \$

Economic \$

Total Depreciation \$

Depreciated Cost \$

Total Depreciated Cost \$

Other Improvements & Equip. \$

Land Value \$

Total Depreciated Cost \$

Of Property \$

SIZE OF BUILDINGS

No. 1 30428

No. 2

Garage 3

NO. OF STORIES

1 2 3 or more

1/2

DESIGN

CONVENTIONAL RANCH TYPE PRE-FAB

MODERN

Grade A B C D

NOTES

30428 - 1st floor only

2nd floor to be added

3rd floor to be added

4th floor to be added

USE

Hotel

Theater

Gas Station

Warehouse

Industrial

Farm

Com. Garage

CONSTRUCTION

FOUNDATION

Concrete B I 2 3

Cinder Block

Brick or Stone

Piers

Basement Area Full

Partial

No Basement

INTERIOR FINISH

Wood Siding B I 2 3

Aluminum Siding

Wood Shingles

Asphalt

Asbestos

Stucco on Frame

Stucco on Masonry

Brick Veneer

Brick on Masonry

Stoile on Masonry

Hollow Tile

Conc. or Cind. Block

HEATING

Hot Air Furnace

Forced Air Furnace

Steam

Electric Heating

Hot Water or Vapor

Pipeless Furnace

No Heating

Oil Coal Gas

Auto. Burner

Unit Heaters

Wood Shingles

City Steam

PLUMBING

Bath Rooms

Toilet Room

Modern Fixtures

Obsolete Fixtures

FLOOR CONSTR.

Auto. Water Heater

Wood Joist

Steel Joist

Mill Type

Rein. Concrete

Steel Prgme

TLING

Ceramic

Alum. or Steel

Plastic or Hardboard

NO. OF ROOMS

1st

2nd

3rd

BSMT.

Age of Bldg. (Economic)

APPRaisal REVIEW

DATE	LAND	BLDGs.	TOTAL	ASSESSORS
10/19/71				
19				
19				
19				
19				
19				
19				
19				
19				
19				
19				
19				

APPEALS

Date 1/17/71

Action Ed note ppa

APPENDIX F

Copies of Select Aerial Photographs



SITE LOCATION

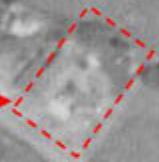
Pennsylvania
 **tectonics**
Environmental Consultants

FIGURE F-1
AERIAL PHOTOGRAPH - 1939
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: PENN PILOT®
(www.pennpilot.psu.edu)



SITE LOCATION



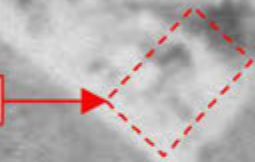
Pennsylvania
 **tectonics**
Environmental Consultants

FIGURE F-2
AERIAL PHOTOGRAPH - 1960
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: PENN PILOT®
(www.pennpilot.psu.edu)



SITE LOCATION



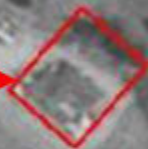
Pennsylvania
 **tectonics**
Environmental Consultants

FIGURE F-3
AERIAL PHOTOGRAPH - 1969
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: PENN PILOT®
(www.pennpilot.psu.edu)



SITE LOCATION



Pennsylvania
 **tectonics**
Environmental Consultants

FIGURE F-4
AERIAL PHOTOGRAPH - 1992
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: GOOGLE EARTH®
(www.google.com/earth)



SITE LOCATION

Pennsylvania
 **tectonics**
Environmental Consultants

FIGURE F-5
AERIAL PHOTOGRAPH - 2005
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: GOOGLE EARTH®
(www.google.com/earth)



SITE LOCATION

Pennsylvania



FIGURE F-6

AERIAL PHOTOGRAPH - 2011
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: GOOGLE EARTH®
(www.google.com/earth)



SITE LOCATION

Pennsylvania



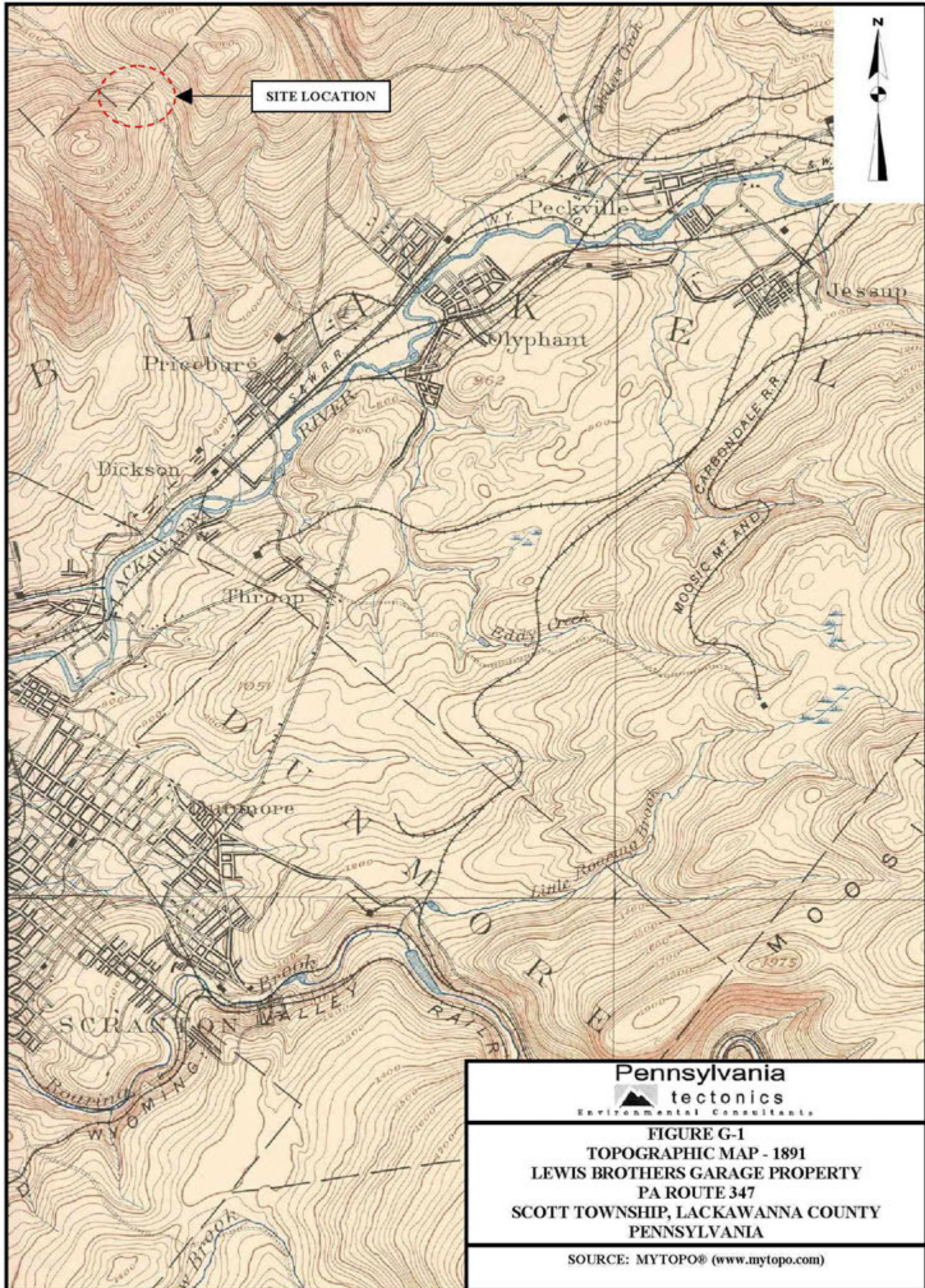
FIGURE F-7

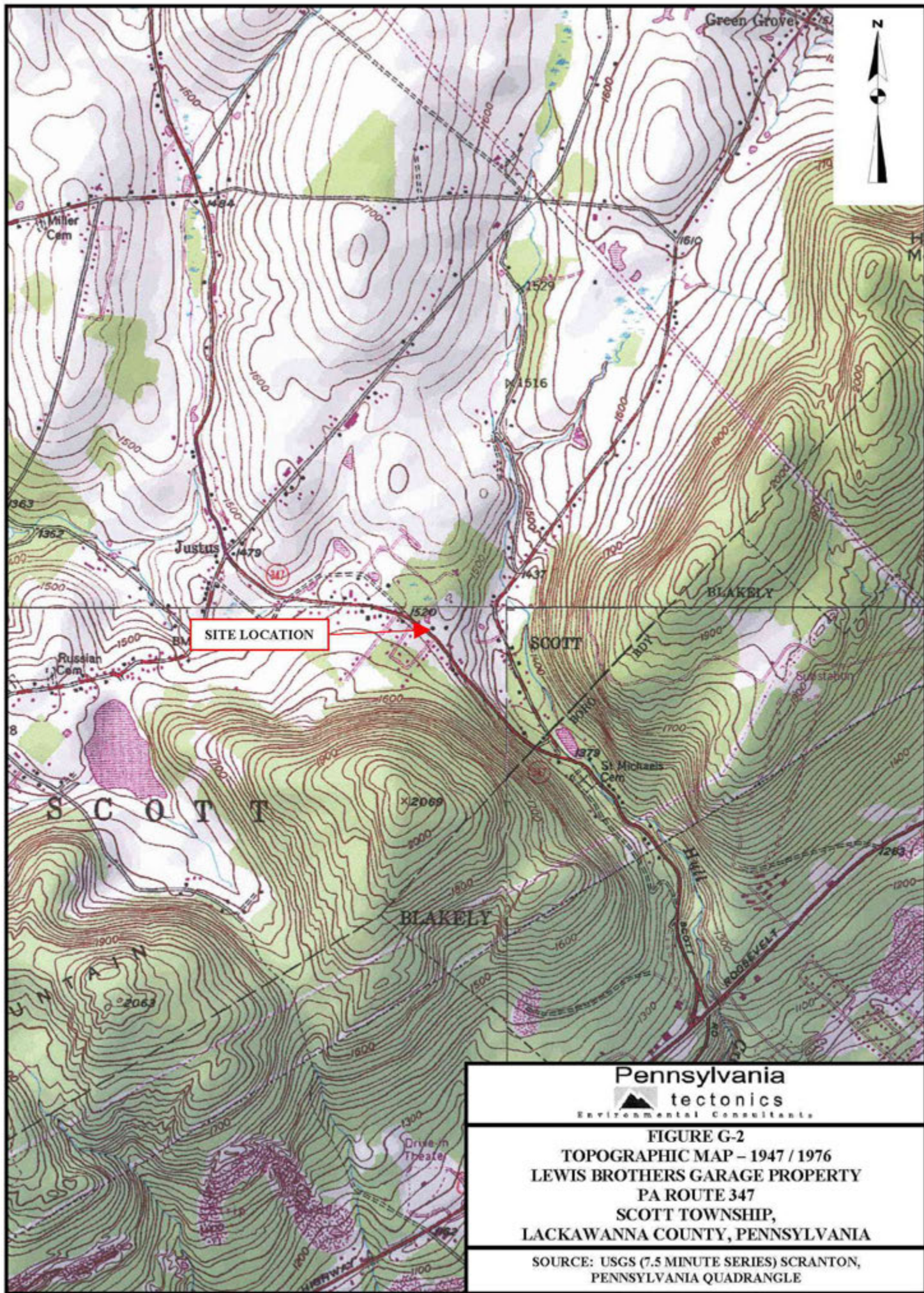
AERIAL PHOTOGRAPH - 2014
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: GOOGLE EARTH®
(www.google.com/earth)

APPENDIX G

Copies of Historical Topographic Maps

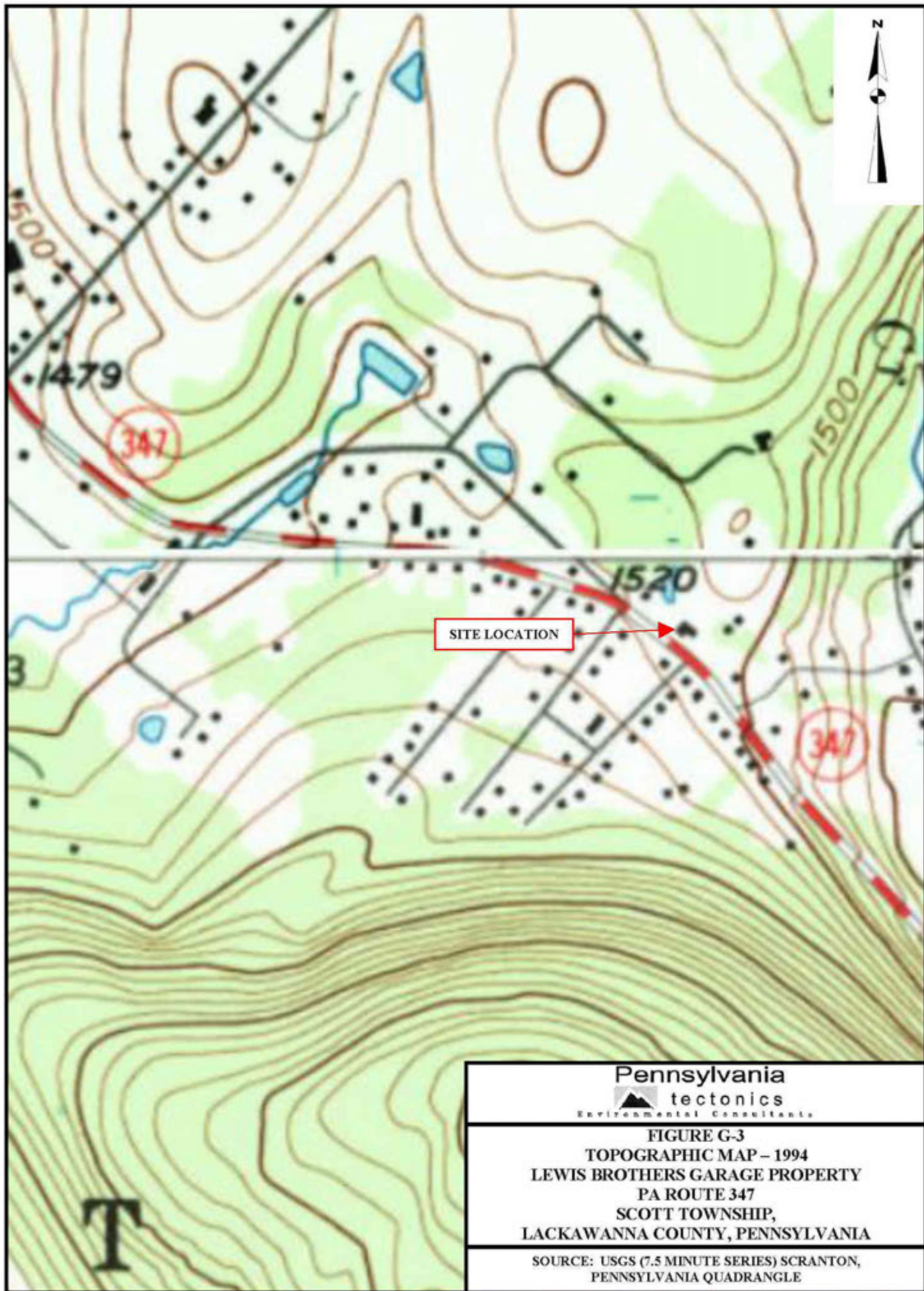




Pennsylvania
 tectonics
 Environmental Consultants

FIGURE G-2
TOPOGRAPHIC MAP – 1947 / 1976
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: USGS (7.5 MINUTE SERIES) SCRANTON,
 PENNSYLVANIA QUADRANGLE



Pennsylvania
tectonics
Environmental Consultants

FIGURE G-3
TOPOGRAPHIC MAP – 1994
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

SOURCE: USGS (7.5 MINUTE SERIES) SCRANTON,
PENNSYLVANIA QUADRANGLE

APPENDIX H

Amended UST Registration Form



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

**STORAGE TANKS REGISTRATION / PERMITTING
APPLICATION FORM**

Before completing this form, read the step-by-step instructions provided in this application package.

35-10233 Facility ID # Lewis Brothers Facility Name	DEP USE ONLY
	Client ID#
	Site ID#
	Account #
	Auth ID#
	APS ID#
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- | | |
|---|--|
| <input type="checkbox"/> Register Tanks(s) to be Used | <input type="checkbox"/> Register Tank(s) to be Temporarily Out of Use |
| <input type="checkbox"/> Register Tank(s) to be Removed | <input type="checkbox"/> Register Tank(s) to be Closed in Place |

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Changed Owner Information | <input checked="" type="checkbox"/> Changed Contact Information |
| <input type="checkbox"/> Changed Facility Information | <input type="checkbox"/> Changed Facility Operation Information |
| <input type="checkbox"/> Changed to Currently In Use Tank(s) | <input type="checkbox"/> Added Tank(s) to Existing Facility |
| <input checked="" type="checkbox"/> Changed to Temporarily Out of Use Tank(s) | <input type="checkbox"/> Changed to Permanently Closed Tank(s)/Removed |
| <input type="checkbox"/> Changed Product | <input type="checkbox"/> Changed to Exempt Tank(s) |

CHANGE OF OWNERSHIP

- Tanks Changed Ownership and Remain at Same Facility

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)		
		<input type="checkbox"/> Volunteer Fire Co/EMS Org	<input type="checkbox"/> State Govt	<input type="checkbox"/> Fed Govt
Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#		
Lewis Brothers				
Individual Last Name	First Name	MI	Suffix	SSN
Additional Individual Last Name	First Name	MI	Suffix	SSN
Mailing Address Line 1	Mailing Address Line 2			
3 Hunts Court				
Address Last Line - City	State	ZIP+4	Country	
Clarks Summit	PA	18411	USA	
Client Contact Last Name	First Name	MI	Suffix	
Lewis	Ruth	D.	Mrs.	
Client Contact Title	Phone	Ext		
P.O.A.	570-587-3182			
E-mail Address	FAX			
	570-587-5311			

III. SITE INFORMATION

DEP Site ID#		Site Name			
		Lewis Brothers			
EPA ID#		Estimated Number of Employees to be Present at Site			
Description of Site					
Former Gasoline Service Station					
County Name	Municipality	City	Boro	Twp	State
Lackawanna	Scott Township	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
County Name	Municipality	City	Boro	Twp	State
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Site Location Line 1		Site Location Line 2			
Route 347					
Site Location Last Line – City		State	ZIP+4		
Olyphant		PA	18447		
Detailed Written Directions to Site					
From Interstate 81 North:					
-Exit 191A to Business Route 6 Toward Dickson City					
-Take Business Route 6 ~3.0 miles to Route 347					
-Make Left onto Route 347					
-Follow Route 347 ~1.5 miles; site is located on the left (white block & wood structure); Pumps along Road, Tanks to left of building					
-Cross Street is Hilltop Drive					
Site Contact Last Name		First Name	MI	Suffix	
Lewis		Ruth	D.	Mrs.	
Site Contact Title		Site Contact Firm			
P.O.A.					
Mailing Address Line 1		Mailing Address Line 2			
3 Hunts Court					
Address Last Line – City		State	ZIP+4		
Clarks Summit		PA	18411		
Phone	Ext	FAX	E-mail Address		
570-587-3182		570-587-5311			
NAICS Codes (Two- & Three-Digit Codes – List All That Apply)				6-Digit Code (Optional)	
Site to Client Relationship					
Owner					

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID#	Facility Name	Facility Kind				
35-10233	Lewis Brothers	MFULS				
Facility Location Line 1 (if different than Site Location)		Facility Location Line 2				
Same						
Facility Location Last Line - City		State ZIP+4				
Same						
Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
	41	29	57	-75	37	40
Horizontal Accuracy Measure	Feet	--or--	Meters			
Horizontal Reference Datum Code	<input checked="" type="checkbox"/> North American Datum of 1927 <input type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984					
Horizontal Collection Method Code						
Reference Point Code						
Altitude	Feet	~1,520'	--or--	Meters		
Altitude Datum Name	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)					
Altitude (Vertical) Location Datum Collection Method Code						
Geometric Type Code						
Data Collection Date						
Source Map Scale Number	USGS 7.5 Scranton, PA Quad	Inch(es)	=	Feet		
	--or--	Centimeter(s)	=	Meters		
Flammable & Combustible Liquid Permit # (if applicable)						
State or Municipality that Issued the Permit						

FACILITY OPERATOR INFORMATION

<input checked="" type="checkbox"/> Same as Owner Identified in Section II.		<input type="checkbox"/> Different than Owner Identified in Section II; identified below.			
DEP Client ID#	Client Type / Code				
Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#			
Individual Last Name	First Name	MI	Suffix	SSN	
Additional Individual Last Name	First Name	MI	Suffix	SSN	
Mailing Address Line 1	Mailing Address Line 2				
Address Last Line - City	State	ZIP+4	Country		
Client Contact Last Name	First Name	MI	Suffix		
Client Contact Title	Phone		Ext		
E-mail Address	FAX				

V. CHANGE OF OWNERSHIP INFORMATION

- All Tanks Changed Ownership at the Facility
 Some Tanks Changed Ownership at the Facility (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II. Current or New Tank Yes No
Owner/Client Information

OWNERSHIP CHANGE FROM (previous owner information)

Name	John Lewis		
Employer ID# (EIN) or SSN			
Mailing Address Line 1	RR2 Box 57		
Mailing Address Line 2	PA Route 347		
Address Last Line - City	Olyphant	State PA	ZIP+4 18447
Previous Facility ID#	35-10233		
Date of Sale/Transfer	07/31/2007		

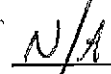
SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. Yes No N/A

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name

Mr. John Lewis - Deceased (07/31/2007)

		
Previous Owner Signature	Title	Date

Facility ID# 35-10233

Facility Name Lewis Brothers

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
	003	004											
A. Unprotected Steel (Single Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cathodically Protected Steel (Galvanic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Cathodically Protected Steel (Impressed Current)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Unprotected Steel (Double Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Fiberglass (Single Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Fiberglass (Double Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Steel W/Plastic or Fiberglass Jacket or Double Wall Act 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Steel With FRP Coating (Act 100 or Equivalent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Steel With Lined Interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O. Cathodically Protected Double Wall Steel (Galvanic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P. Cathodically Protected Steel With Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q. Double Bottom (AST's Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R. Molded Plastic Form (AST's Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T. Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID# 35-10233

Facility Name Lewis Brothers

	Underground Piping Construction & Corrosion Protection (2)				Aboveground Piping Construction & Corrosion Protection (3)			
	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cathodically Protected Metallic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Single Wall Fiberglass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Single Wall Flexible (Non-Metallic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Double Wall Metallic Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Double Wall Rigid (FRP) Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Double Wall Flexible Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L. Trench Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>						

Facility ID# 35-10233

Facility Name Lewis Brothers

Overfill Prevention (7)		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Overfill Alarm		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Ball Float Valve and No Air Eliminator		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Fill In Less Than 25 Gallons (Exempt)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. None		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. Drop Tube Shutoff Device		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes (AST only)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency Containment (16) ASTs Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
E. Exempt		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. No		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary Containment (17) ASTs Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
E. Exempt		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. No		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stage I Vapor Recovery (19) USTs Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Coax		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. 2 Point		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. None or Incomplete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stage II Vapor Recovery (20)		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Complete Balance System		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Complete Assist System		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. UG Piping Only		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. None		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tank-top Containment Sumps Present (21) USTs Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. At some penetrations		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. At all penetrations		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Under-dispenser Containment Present (22) USTs Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. At some dispensers		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. Under all dispensers		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Line Leak Detector Shuts Off Pump (23) USTs Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID#

Facility Name

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an in the appropriate box for each tank that was removed or closed in place.

	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
<i>Items 2 & 3 below apply to large ASTs and all USTs</i>	003	004									
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Closure document submitted to the appropriate DEP regional office.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Closure document kept on file by owner.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name

Ruth H. Lewis
Owner Signature

OWNER
Title

1/23/08
Date

Information & Invoices should be sent to:

- Tank Owner Contact
- Site Contact
- Facility Operator
- Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name		Employer ID# (EIN)	Dun & Bradstreet ID#	
Individual Last Name	First Name	MI	Suffix	SSN (last four #)
Additional Individual Last Name	First Name	MI	Suffix	SSN (last four #)
Mailing Address Line 1		Mailing Address Line 2		
Address Last Line – City		State	ZIP+4	Country
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

APPENDIX I

UST Closure Report Forms – July 2010



APPENDIX D

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM
CLOSURE REPORT FORM

35 - 10233
Facility I.D.

Lewis Brothers Garage
Facility Name

Scott Township Municipality Lackawanna County

08/17/2010
Date Prepared

Martin Gilgallon
Name of Person Submitting Report
(Please Print)

Pennsylvania Tectonics, Incorporated
Company Name
(If Applicable)

Project Director
Title

Closure Method (Check all that apply):

- Removal
Closure-In-Place
Change-In-Service

Site Assessment Results (Check all that apply):

- No Obvious Contamination - Sample Results Meet Standards/Levels
No Obvious Contamination - Sample Results Do Not Meet Standards/Levels
Obvious, Localized Contamination - Sample Results Meet Standards/Levels
Obvious, Localized Contamination - Sample Results Do Not Meet Standards/Levels
Obvious, Extensive Contamination

DATE RECEIVED: _____

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Owners who are permanently closing underground storage tanks may use this form to demonstrate that an underground storage tank closure was performed in accordance with the "Closure Requirements for Underground Storage Tank Systems" document. PLEASE PRINT OR TYPE. COMPLETE ALL QUESTIONS.

SECTION I. Owner/Facility/Tank/Waste Management and Disposal Information

1. Facility ID Number 35 - 10233
2. Facility Name Lewis Brothers Garage
3. Facility County Lackawanna
4. Facility Municipality Scott Township
5. Facility Address Route 347
6. Facility Contact Person Ruth Lewis
7. Facility Telephone Number (570) 587 - 3182
8. Owner Name Lewis Brothers Garage
9. Owner Mailing Address 3 Hunts Court, Clarks Summit, Pennsylvania 18411
10. Description of Underground Storage Tanks (Complete for each tank closed)

DATE OF TANK CLOSURE (Month/Day/Year)	7-27-2010	- -	- -	- -
Tank Registration Number	5			
Estimated Total Capacity (Gallons)	1,000			
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	a. Petroleum			
	Unleaded Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Leaded Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Aviation Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Jet Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Diesel Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	New Motor Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Used Motor Oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other, Please Specify			
NOTE: If Hazardous Substance Block is Checked, Attach Material Safety Data Sheets (MSDS)	b. Hazardous Substance			
	Name of Principal CERCLA Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AND Chemical Abstract Service (CAS) No.			
Closure Method (Check Only One)	c. Unknown			
	a. Removal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Closure-in-Place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partial System Closure (Yes or No)	c. Change-in-Service			
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	No			

DATE OF TANK CLOSURE (Month/Day/Year)		- -	- -	- -	- -
Tank Registration Number					
Estimated Total Capacity (Gallons)					
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	a. Petroleum				
	Unleaded Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Leaded Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Aviation Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Jet Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Diesel Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	New Motor Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Used Motor Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other, Please Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Material Safety Data Sheets (MSDS)	b. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Name of Principal CERCLA Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AND Chemical Abstract Service (CAS) No.				
	c. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Closure Method (Check Only One)	a. Removal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Closure-in-Place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Change-In-Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partial System Closure (Yes or No)					

Yes N/A

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) including use of tanks: _____
The subject property was historically used as a gasoline station, auto repair facility and car dealership. The UST was utilized for the storage of used motor oil for an undetermined period of time. Currently, the facility is leased to two (2) tenants for storage.

- 12. A site location and sampling map of the site, drawn to scale, is attached. See page 11 of 11.
- 13. Original, color photographs of the closure process are attached (i.e., inside of excavation/piping runs, pit water, tanks showing condition).
- 14. An amended "Storage Tanks Registration/Permitting Application Form" was submitted to the DEP, Bureau of Waste Management, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.
Date: 07/2/2010
- 15. If a reportable release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.
Date: _____ Office: _____

Yes N/A

- 16. If tanks were cleaned on-site:
 - a. Briefly describe the disposition of usable product: No useable product was present in the UST.

 - b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
The unusable product, sludge, etc. was placed into two (2) 55-gallon open top steel drums. The drums were transported offsite by Hazleton Oil and Environmental for proper disposal. Associated documentation is attached.

 - c. If tank contents were determined/deemed to be hazardous waste, provide:
 - (1) Generator ID Number: NA
 - (2) Licensed Hazardous Waste Transporter Name and ID Number: NA

- 17. If tanks were removed from the site for cleaning:
 - a. Provide the name and permit number of the processing, treatment, storage or disposal facility performing the tank cleaning: NA

 - b. If tank contents were d determined/deemed to be hazardous waste, provide:
 - (1) Generator ID Number: NA
 - (2) Licensed Hazardous Waste Transporter Name and ID Number: NA

- 18. Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal):
The tank was cut, cleaned and transported to Mike's Scrapyard for recycling. There was no piping associated with the tank. No evidence of historical piping was identified.

- 19. If contaminated soil is excavated:
 - a. Briefly describe the disposition and amount NA (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
NA

 - b. If contaminated soil is determined/deemed to be hazardous waste, provide:
 - (1) Generator ID Number: NA
 - (2) Licensed Hazardous Waste Transporter Name and ID Number: NA

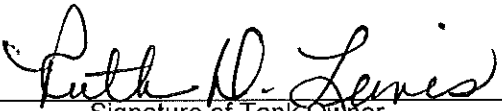
Yes N/A

- 20. Briefly describe the disposition of and amount 10 (tons) of uncontaminated soil (attach analyses):

Uncontaminated soil was staged near the excavation cavity for subsequent reuse as backfill.

I, Ruth Lewis, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904
 (Print Name)

(relating to unsworn falsification to authorities) that I am the owner of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.


 Signature of Tank Owner

08 / 17 / 2010
 Date

Lewis Brothers Garage
 Company Name
 (If Applicable)

Owner
 Title

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM
CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 35 - 10233

Yes N/A

1. Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil:
The one (1) UST was characterized as a steel vessel. Soils overlaying and surrounding the vessel were excavated. No contamination was encountered. Uncontaminated soil stockpiled next to cavity for use as backfill.

2. Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping:
No piping was encountered.

3. Briefly describe the condition of the tanks and any problems encountered during tank removal:
The tank was in good condition, with no holes or pitting being observed. No problems were encountered during the tank removal operations.

4. Briefly describe the method used to purge the tanks of and monitor for explosive vapors:
Flammable vapors were removed from the tanks utilizing a Venturi Air Mover. Atmospheric hazards were monitored utilizing an Entry Rae multi-meter. Combustable gas readings did not exceed 10% of the LEL during UST cutting activities.

5. If tanks were cleaned on-site:
a. Briefly describe the tank cleaning process: Tank was purged, cut open and entered under appropriate confined space permits to complete the cleaning process. Waste materials were staged in two (2) 55-gallon steel drums pending T&D considerations.

b. If subcontracted, name and address of company that performed the tank cleaning:
NA

6. If tanks were closed-in-place, briefly describe the tank fill material: NA

7. If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

SECTION II. (continued)

I, Jerry Luchansky _____, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904
(relating to unsworn falsification to authorities) that I am the certified installer who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Jerry Luchansky
Signature of Certified Installer

07 / 24 / 2010
Date

5579
Installer Certification Number

1517
Company Certification Number

Pennsylvania Tectonics, Inc.
Company Name

826 Main Street
Street

Peckville, PA 18452
City/Town, State, Zip

570 - 487 - 1959
Phone

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 005 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 35 - 10233

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A" if NOT encountered).

Bedrock NA feet below land surface Water NA feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping NA feet

C. TANK SYSTEM REMOVED FROM THE GROUND

1). Was obvious contamination observed while excavating?

NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records -----> Do not complete item C.2. below.

YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

NA

-----> Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

YES -----> Remove or remediate contaminated soil -----> Conduct confirmatory sampling-----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

NO-----> Continue interim remedial actions -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

NO -----> Conduct confirmatory sampling -----> See end of this section for options on submission and maintenance of closure records.

YES-----> Report release to DEP within 2 hours -----> Describe contamination observed and likely source(s) tank, piping, dispenser, spills, overfills):

NA

Continue with corrective action -----> See end of this section for options on submission and maintenance of closure records -----> Call Indemnification Fund (717-787-0763).

E. If the answer to C.1. is "no", the answer to C.2. if "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

- (a) By the owners and operators who took the UST system out of service;
- (b) By the current owners and operators of the UST system site; or
- (c) By mailing these records to the implementing agency if they cannot be maintained at the closed facility.

At least one option must be chosen. If option (c) is chosen, the closure report form should be sent to the DEP regional office responsible for the county in which the tank is located.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the CAP regulation requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Jerry Luchansky, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Jerry Luchansky
Signature of Person Performing Site Assessment

07 / 24 / 2010
Date

Environmental Specialist
Title of Person Performing Site Assessment

Pennsylvania Tectonics, Inc.
Name of Company Performing Site Assessment

570-487-1959
Telephone Number of Person Performing Site Assessment

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

**UNDERGROUND STORAGE TANK SYSTEM
CLOSURE REPORT FORM**

Sample/Analysis Information
(Attachment for Section III.)

Facility ID Number 35-10233

Sample I. D. (See diagram)	Parameter	Analytical Method	Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
058-0727-SS1	Benzene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Ethylbenzene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Cumene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Toluene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Naphthalene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	MTBE	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,3,5-TMB	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,2,4-TMB	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Benzo(a)anthracene	8270D	Soil	<0.186 mg/Kg	0.186 mg/Kg	07/27/2010	08/13/2010
058-0727-SS1	Chrysene	8270D	Soil	<0.186 mg/Kg	0.186 mg/Kg	07/27/2010	08/13/2010
058-0727-SS1	Benzo(b)fluoranthene	8270D	Soil	<0.186 mg/Kg	0.186 mg/Kg	07/27/2010	08/13/2010
058-0727-SS1	Benzo(a)pyrene	8270D	Soil	<0.186 mg/Kg	0.186 mg/Kg	07/27/2010	08/13/2010
058-0727-SS1	Indeno(1,2,3-cd)pyrene	8270D	Soil	<0.186 mg/Kg	0.186 mg/Kg	07/27/2010	08/13/2010
058-0727-SS1	Benzo(g,h,i)perylene	8270D	Soil	<0.186 mg/Kg	0.186 mg/Kg	07/27/2010	08/13/2010
058-0727-SS1	Pyrene	8270D	Soil	<0.186 mg/Kg	0.186 mg/Kg	07/27/2010	08/13/2010
058-0727-SS1	Lead (total)	6010B	Soil	45.6 mg/Kg		07/27/2010	08/17/2010
058-0727-SS1	Chloromethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Bromomethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Vinyl Chloride	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Chloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Methylene Chloride	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Carbon Disulfide	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,1-Dichloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,1-Dichloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	cis-1,2-Dichloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	trans-1,2-Dichloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,2-Dichloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,1,1-Trichloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Carbon Tetrachloride	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Chloroform	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Naphthalene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Cumene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Bromodichloromethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,2-Dichloropropane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	cis-1,3-Dichloropropene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Trichloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Dibromochloromethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,1,2-Trichloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Benzene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	trans-1,3-Dichloropropene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Bromoform	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Tetrachloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,1,2,2-Tetrachloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Toluene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Chlorobenzene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Ethylbenzene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Styrene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	Xylenes, total	8260B	Soil	<0.015 mg/Kg	0.015 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	MTBE	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,2,4-TMB	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS1	1,3,5-TMB	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

**UNDERGROUND STORAGE TANK SYSTEM
CLOSURE REPORT FORM**

Sample/Analysis Information
(Attachment for Section III.)

Facility ID Number 35-10233

Sample I. D. (See diagram)	Parameter	Analytical Method	Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
058-0727-SS2	Benzene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Ethylbenzene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Cumene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Toluene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Naphthalene	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	MTBE	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,3,5-TMB	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,2,4-TMB	5035/8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Benzo(a)anthracene	8270D	Soil	<0.180 mg/Kg	0.180 mg/Kg	07/27/2010	08/13/2010
058-0727-SS2	Chrysene	8270D	Soil	<0.180 mg/Kg	0.180 mg/Kg	07/27/2010	08/13/2010
058-0727-SS2	Benzo(b)fluoranthene	8270D	Soil	<0.180 mg/Kg	0.180 mg/Kg	07/27/2010	08/13/2010
058-0727-SS2	Benzo(a)pyrene	8270D	Soil	<0.180 mg/Kg	0.180 mg/Kg	07/27/2010	08/13/2010
058-0727-SS2	Indeno(1,2,3-cd)pyrene	8270D	Soil	<0.180 mg/Kg	0.180 mg/Kg	07/27/2010	08/13/2010
058-0727-SS2	Benzo(g,h,i)perylene	8270D	Soil	<0.180 mg/Kg	0.180 mg/Kg	07/27/2010	08/13/2010
058-0727-SS2	Pyrene	8270D	Soil	<0.180 mg/Kg	0.180 mg/Kg	07/27/2010	08/13/2010
058-0727-SS2	Lead (total)	6010B	Soil	166 mg/Kg		07/27/2010	08/17/2010
058-0727-SS2	Chloromethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Bromomethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Vinyl Chloride	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Chloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Methylene Chloride	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Carbon Disulfide	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,1-Dichloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,1-Dichloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	cis 1,2-Dichloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	trans 1,2-Dichloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,2-Dichloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,1,1-Trichloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Carbon Tetrachloride	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Chloroform	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Naphthalene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Cumene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Bromodichloromethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,2-Dichloropropane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	cis-1,3-Dichloropropene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Trichloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Dibromochloromethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,1,2-Trichloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Benzene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	trans-1,3-Dichloropropene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Bromoform	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Tetrachloroethene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,1,2,2-Tetrachloroethane	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Toluene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Chlorobenzene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Ethylbenzene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Styrene	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	Xylenes, total	8260B	Soil	<0.015 mg/Kg	0.015 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	MTBE	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,2,4-TMB	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010
058-0727-SS2	1,3,5-TMB	8260B	Soil	<0.005 mg/Kg	0.005 mg/Kg	07/27/2010	07/29/2010

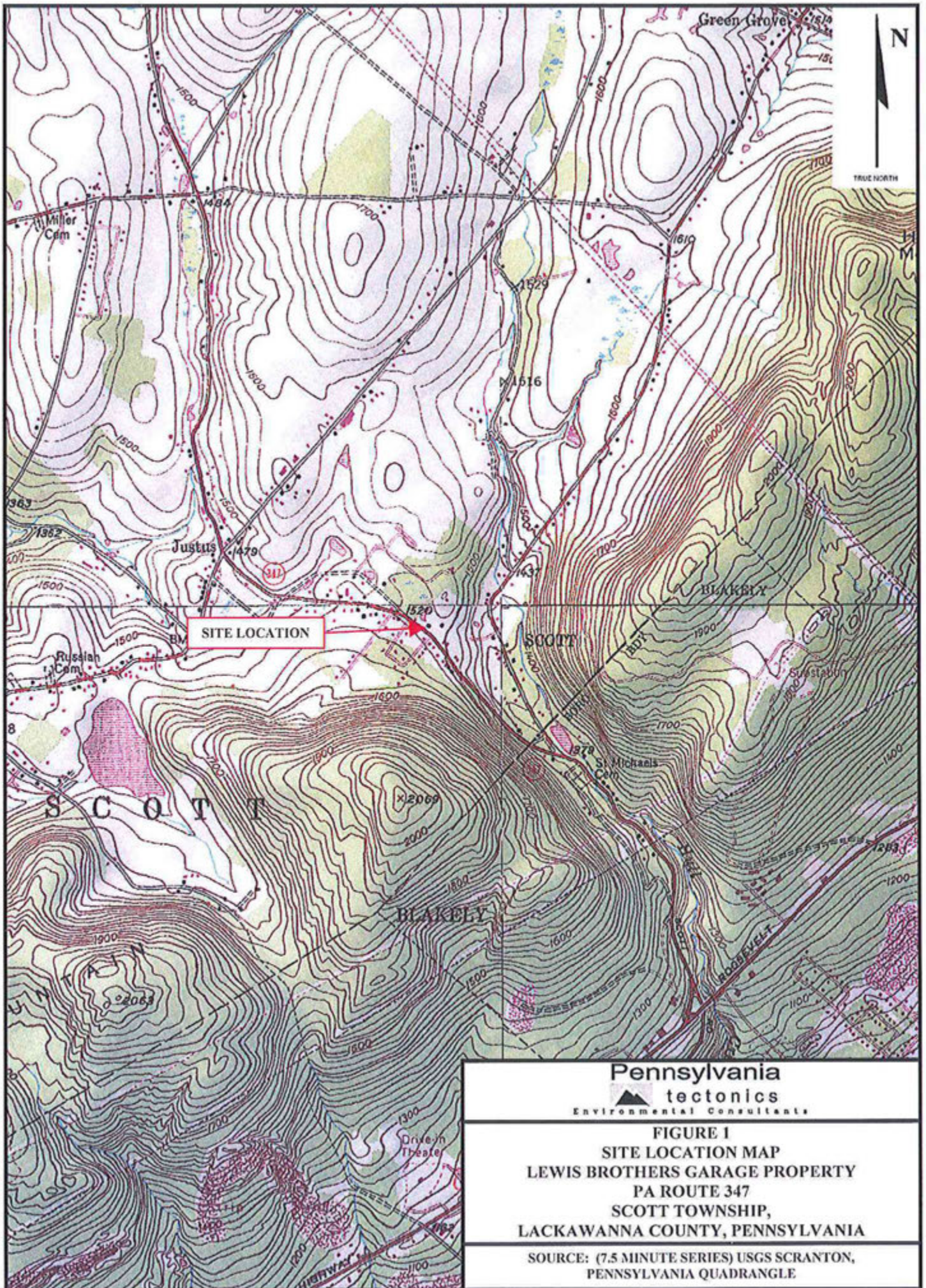
Site Location and Sampling Map - Use this page or suitable facsimile to provide a large scale map of the site where tanks were closed. Scales between 1" = 10 and 1" = 100 feet frequently work out well. Include the following information as each applies to the site: facility name and I.D., county, township or borough, property boundaries or area of interest, buildings, roads and streets with names or route numbers, utilities, location and ID number of storage tanks removed including piping and dispensers, soil stockpile locations, excavations or other locations of product recovery, north arrow, approximate map scale and legend. Also show depth and location of samples with sample ID numbers cross-referenced to the same ID numbers shown on Page 10 of 11.

Facility Name and ID: Lewis Brothers Garage 35 - 10233

County: Lackawanna

Township/Borough: Scott Township

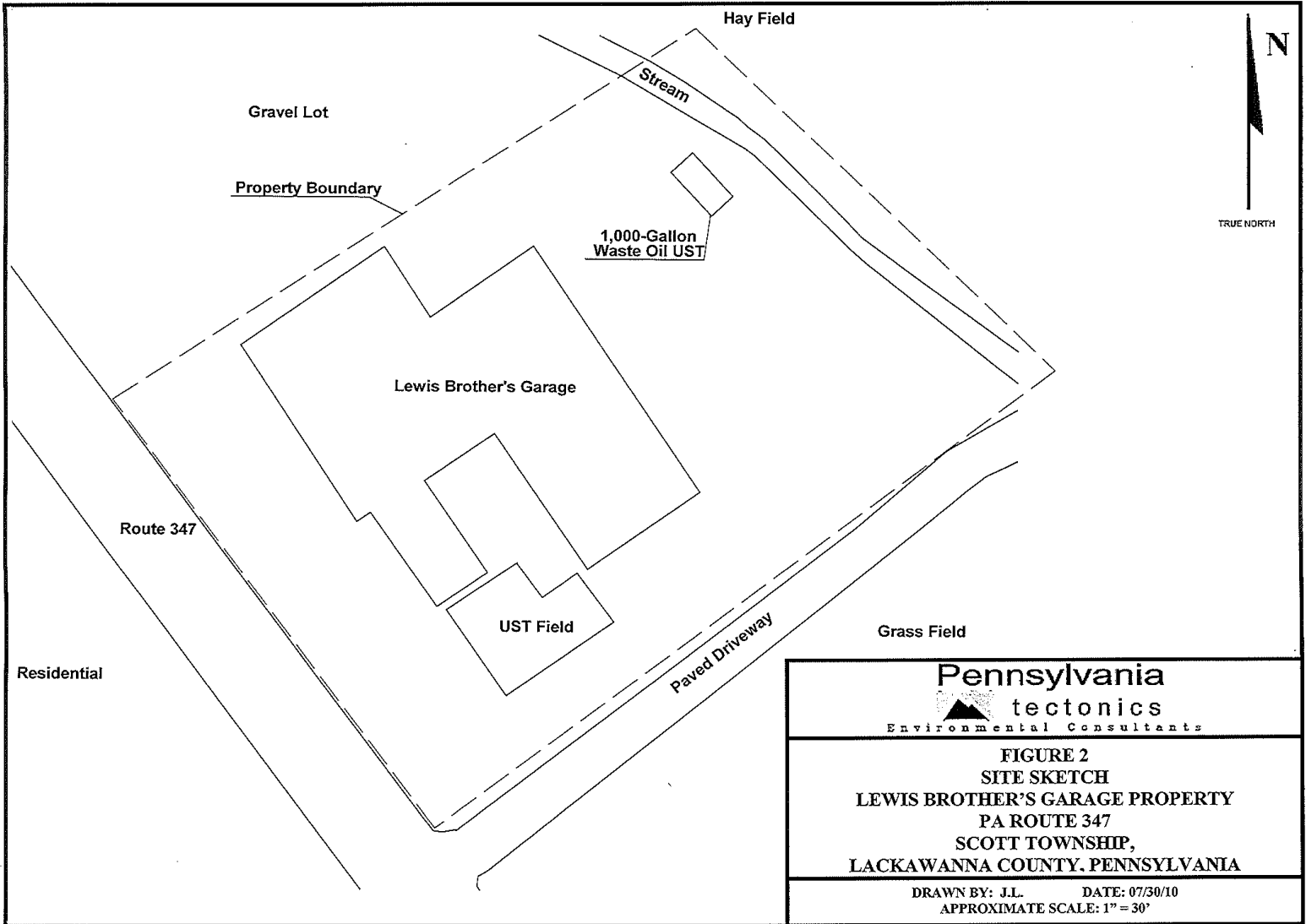
ATTACHMENT A
Site Maps & Figures




Pennsylvania
 tectonics
 Environmental Consultants

FIGURE I
SITE LOCATION MAP
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 347
SCOTT TOWNSHIP,
LACKAWANNA COUNTY, PENNSYLVANIA

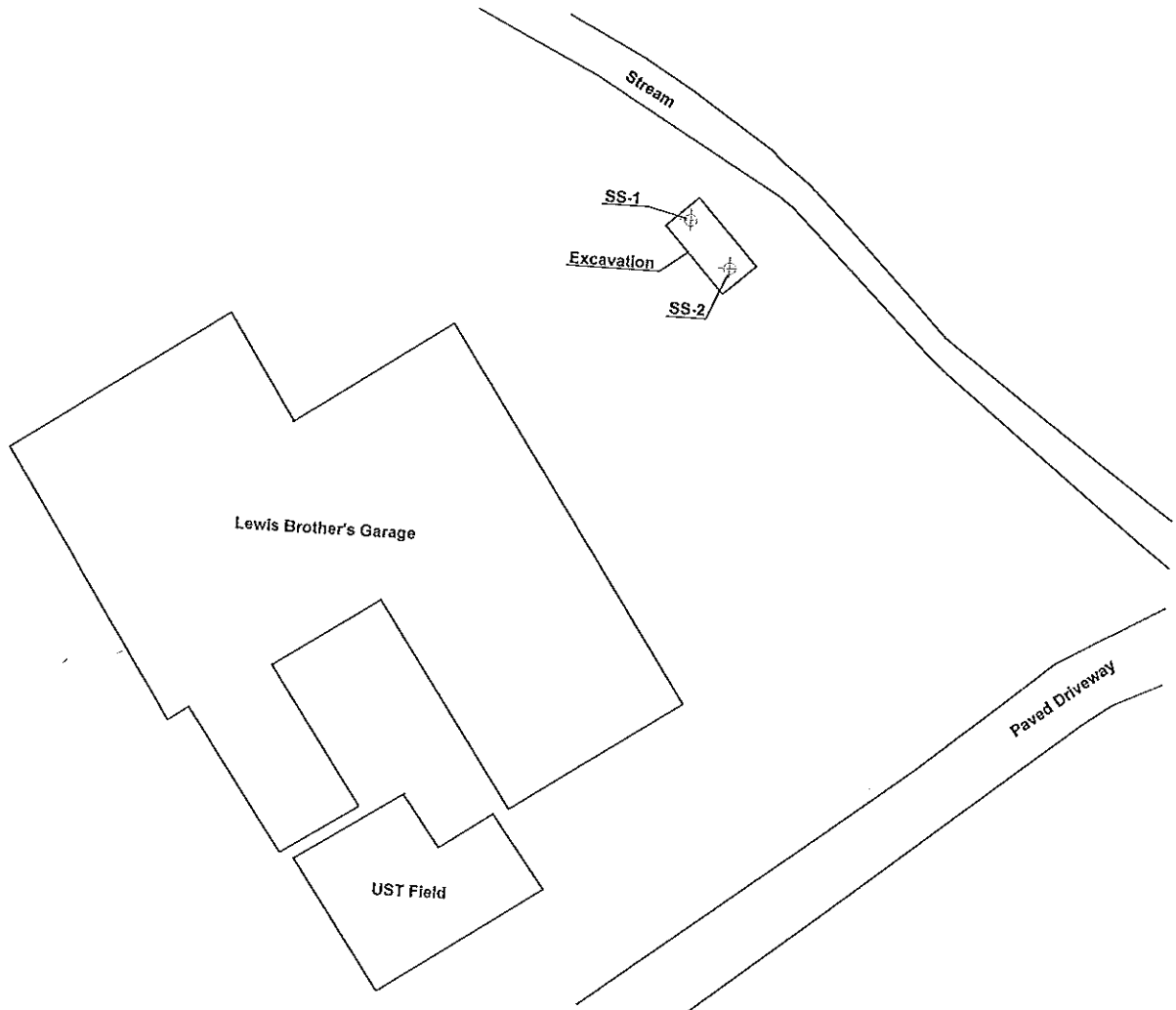
SOURCE: (7.5 MINUTE SERIES) USGS SCRANTON,
 PENNSYLVANIA QUADRANGLE



Pennsylvania  tectonics Environmental Consultants	
FIGURE 2 SITE SKETCH LEWIS BROTHER'S GARAGE PROPERTY PA ROUTE 347 SCOTT TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA	
DRAWN BY: J.L.	DATE: 07/30/10
APPROXIMATE SCALE: 1" = 30'	

N

TRUE NORTH



Pennsylvania



tectonics

Environmental Consultants

FIGURE 3

SAMPLE LOCATION MAP

LEWIS BROTHER'S GARAGE PROPERTY

PA ROUTE 347

SCOTT TOWNSHIP,

LACKAWANNA COUNTY, PENNSYLVANIA

DRAWN BY: J.L.

DATE: 07/30/2010

SCALE: 1" = 30'

ATTACHMENT B

Photograph Log

Table B-1

Photograph Log

Photo	Description	Date
1.	View of the UST prior to closure activities.	07/27/10
2.	View of the top of the UST being excavated.	07/27/10
3.	View of the UST cleaning operations.	07/27/10
4.	View of the UST being excavated.	07/27/10
5.	View of the UST cavity subsequent to removal.	07/27/10
6.	View of Pennsylvania Tectonics personnel collecting a soil sample from the excavation.	07/27/10
7.	View of the UST cavity being backfilled.	07/27/10

Photo #1
07/27/10

View of the UST prior to closure activities.



Photo #2
07/27/10

View of the top of the UST being excavated.



Photo #3
07/27/10

View of the UST cleaning operations.



Photo #4
07/27/10

View of the UST being excavated.



Photo #5
07/27/10

View of the UST cavity subsequent to removal.



Photo #6
07/27/10

View of Pennsylvania Tectonics personnel collecting a soil sample from the excavation.



Photo #7

07/27/10

View of the UST cavity being backfilled.



ATTACHMENT C

Pennsylvania Tectonics Representative Resumes / PADEP Certifications

MARTIN P. GILGALLON, P.G.

FIELDS OF COMPETENCE

Hazardous waste site characterization and remediation; Phase I and Phase II Environmental Site Assessment; test borings and monitoring well installation and sampling; hydrogeological studies; regulatory compliance assessment-- RCRA, CWA, TSCA, SDWA, CERCLA/SARA, and State standards (PA DEP, NY DEC, and NJ DEPE); remedial investigations / feasibility studies; underground storage tank compliance, closure, release investigations, site characterization, and corrective action; water supply investigations and permitting for commercial, industrial and institutional client; associated health & safety protocols.

EXPERIENCE SUMMARY

Twenty-two years experience in the field of environmental assessment, water quality and wastestream treatment evaluation, site characterization, subsurface investigations, and remedial design/action. Currently serve as Principal of Pennsylvania Tectonics, Incorporated, a multi-faceted environmental consulting firm serving lending institutions, development corporations and various commercial and residential clients throughout the Mid-Atlantic Region. Recently served as Project Hydrogeologist for a variety of environmental investigation and remediation projects including: the design and implementation of groundwater monitoring networks and soil sampling programs for landfills and underground storage tank farms; review of remedial alternatives; design and implementation of soil and groundwater remedial systems; the completion of Phase I and Phase II Environmental Site Assessments; scoping and oversight of underground storage tank closures, site characterization, and corrective actions.

CREDENTIALS

B.S. - Geosciences, Penn State University, 1987.

Commonwealth of Pennsylvania Registered Professional Geologist

Pennsylvania Department of Environmental Protection Certified UST Installer

OSHA 1910.120 Hazardous Waste Site Training: 40 Hour and Annual 8 Hour.

Member: Association of Groundwater Scientists and Engineers.

Member: National Groundwater Association

Member: The Geological Society of America

EMPLOYMENT HISTORY

1999 – Present	Pennsylvania Tectonics, Incorporated, Peckville, Pennsylvania
1990 – 1999	Synergist, Incorporated, Carbondale & Elverson, Pennsylvania
1987 – 1990	Applied Geotechnical and Environmental Services, Incorporated, Valley Forge, Pennsylvania

KEY PROJECTS

PENNSYLVANIA TECTONICS, INC. - Currently serves as Principal of Pennsylvania Tectonics, Incorporated, a multi-faceted environmental consulting firm serving lending institutions, development corporations and various commercial and residential clients throughout the Mid-Atlantic Region. Pennsylvania Tectonics, Incorporated provides environmental services including Phase I & Phase II Environmental Site Assessments, Transaction Screen Process Reports, Underground Storage Tank Removal Services, Brownfield Services including Site Characterization and Remediation, Public Water Supply, and Watershed Investigations.

SYNERGIST, INC. – Served as Project Manager for the Lackawanna Watershed 2000 Program on the Lackawanna River Basin in Northeastern Pennsylvania. Previously served as Project Manager under the Strategic Environmental Research and Development Program (SERDP) in conjunction with the completion of watershed studies on the Lackawanna River Basin in Northeastern Pennsylvania and the Winters Run River Basin at the Aberdeen Proving Ground in Harford County, Maryland. The associated Scopes of Work included; the completion of the mapping of each basin utilizing GPS and GIS technologies; the generation of channel morphology data utilizing traditional surveying methods; the collection of wet chemistries to determine baseline chemical characteristics of each river system; and the collection of water quality data utilizing in-situ, real-time data collection equipment pursuant to the development of the prototypes and pilot demonstrations for an Environmental Monitoring and Management System (EMMS) under SERDP. In each investigation, the real-time data was collected from the field stations utilizing cellular telephone technologies and downloaded, via modem, to a central data collection laboratory at the National Institute for Environmental Renewal (NIER) located in Mayfield, Lackawanna County, Pennsylvania. As Project Manager, responsibilities also included; coordination with officials of the Army Environmental Center at the Aberdeen Proving Ground; completion of the collection of atmospheric data with field representatives of the Waterways Experimental Station (WES) in Vicksburg, Mississippi; and coordination with local, county and state regulators and authorities.

Conducted evaluations of Publicly Owned Treatment Works (POTW) effluent characterization protocols relative to compliance with PA Clean Streams and US EPA Clean Water Act requirements, as they apply to receiving water limitations on quantities, rates, and concentrations of chemical and physical constituents. Designed and implemented Dye Tracer studies for a variety of commercial and industrial clients, in order to determine the configuration of both sanitary and industrial piping systems. As part of a Design Study relative to a Groundwater Pump and Treat System, evaluated the capability of a private Sewage Treatment Plant to process treated discharges from a hydrocarbon-contaminated wastestream. In support of Permit

Applications for encroachments into wetlands, prepared environmental assessment documentation regarding wetland aerial extent, value, function, adverse impacts and adverse environmental effect.

As Project Hydrogeologist, responsible for the assessment of hydrologic and geologic conditions pertaining to project performance. Projects of note include the initiation and supervision of release investigations in conjunction with failed underground storage tank (UST) systems at numerous sites and UST Closures. These projects typically include the development of test boring and monitoring well networks and soil and groundwater sampling programs in order to discern migration pathways and the extent of potential contamination present at a facility. Responsibilities include: the design and implementation of remedial action plans to address soil and groundwater contamination; associated coordination with regulatory agencies; and the preparation of UST Closure Reports. Remedial action projects include: the design and implementation of vacuum extraction and bioremediation systems to address petroleum contaminated soil and groundwater; and pump and treat remedial systems to address petroleum impacted groundwater in deep, bedrock aquifers. As Project Manager for environmental assessments and site characterizations, responsibilities include the preparation of and adherence to site specific health and safety plans, performance of background reviews and field investigations, oversight of field technicians, data review, and reporting. Projects of note include: the remedial investigation / feasibility study of a 120 acre industrial facility contaminated with various petroleum hydrocarbons, volatile organics and PCBs; hydrogeological study and quarterly monitoring of an abandoned industrial site contaminated with 1,1,1 Trichloroethane; geophysical documents review; and Phase I and Phase II environmental site assessments of commercial and industrial facilities.

APPLIED GEOTECHNICAL AND ENVIRONMENTAL SERVICES (AGES) - As Staff Geologist, duties included the design of groundwater monitoring systems for landfills and UST systems. Responsible for the installation of test borings and construction of groundwater monitoring wells, and the development and implementation of soil and aqueous sampling programs. Also responsible for environmental site assessments; and geotechnical investigations in conjunction with building design and construction, and report preparation. Projects of note include the hydrogeological investigation including project and client coordination for a US Environmental Protection Agency Superfund Site in New Jersey; and numerous geologic investigations for both government agencies and private corporations.

ORGANIZATIONS

- Association of Groundwater Scientists and Engineers
- National Groundwater Association
- The Geological Society of America
- Lackawanna River Corridor Association

JERRY LUCHANSKY

FIELDS OF COMPETENCE

Phase I and Phase II Environmental Site Assessment; Test borings and monitoring well installation oversight and sampling; watershed monitoring; remote and real-time field instrumentation operation and data acquisition; GPS surveying; environmental data collection and management.

EXPERIENCE SUMMARY

Two years in the field of site assessments, site remediation and water quality and natural resource monitoring and management. Currently serves as Project Manager / Environmental Specialist at Pennsylvania Tectonics, Incorporated, a multi-faceted environmental consulting firm serving lending institutions, development corporations and various industrial, commercial and residential clients throughout the Mid-Atlantic Region.

CREDENTIALS

B.S. – Environmental Science, King’s College, 2007

OSHA 1910.120 Hazardous Waste Site Training: 40 Hour and Annual 8 Hour

24-Hour Asbestos Building Inspector Initial Training (Certification #045512)

PADEP Certified UST Installer (UMR Certification #5579)

EMPLOYMENT HISTORY

2008 – Present Pennsylvania Tectonics, Incorporated, Peckville, Pennsylvania

KEY PROJECTS

PENNSYLVANIA TECTONICS, INC. – Currently serves as Environmental Specialist for Pennsylvania Tectonics, Incorporated. Pennsylvania Tectonics, Incorporated provides environmental services including Phase I & Phase II Environmental Site Assessments, Transaction Screen Process Reports, Underground Storage Tank Removal Services, Brownfield Services including Site Characterization and Remediation and Watershed Investigations.

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

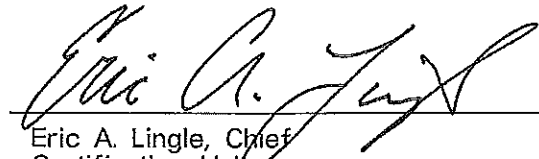


**BUREAU OF WASTE MANAGEMENT
DIVISION OF STORAGE TANKS
P.O. BOX 8763
HARRISBURG, PENNSYLVANIA 17105-8763**



THIS CERTIFICATION AUTHORIZES THE BELOW NAMED INDIVIDUAL TO CONDUCT TANK HANDLING OR INSPECTION ACTIVITIES PURSUANT TO THE STORAGE TANK AND SPILL PREVENTION ACT AND DEPARTMENT REGULATIONS AT TITLE 25 PA CODE CHAPTER 245 IN THE SPECIFIC CATEGORIES SHOWN.

<u>CATEGORIES</u>	<u>ISSUE DATE(S)</u>	<u>EXPIRATION DATE(S)</u>
UMR *****	05/25/2010	05/25/2013
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****


Eric A. Lingle, Chief
Certification Unit

ISSUED TO GERALD E LUCHANSKY
DEP CLIENT ID NUMBER 279167
CERTIFICATION NUMBER 5579

WARNING

Special security measures are incorporated into this Certification Certificate and Identification Card. Any attempt to alter the information on these documents may be a violation of Pennsylvania law, including but not limited to 18 Pa. C.S.A. 4104 (relating to tampering with records or identification) and 18 Pa. C.S.A. 4911 (relating to tampering with public records and information).

Certified Companies employing the certified individual shown above may make a Photo Copy of the Certification Certificate for company records. The original certification documents shall be retained by the certified individual to whom they are issued unless otherwise directed by the Department.

IMPORTANT INSTRUCTIONS

Carefully detach the Identification (ID) Card along perforated edges. Sign the ID Card on the reverse side and carry the ID Card at all times when performing certified activities. You must present (display) the ID Card upon request.

The ID Card may be covered or laminated with a clear plastic material (after signing) to protect it from deterioration.

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF STORAGE TANKS
INSTALLER/INSPECTOR CERTIFICATION NUMBER: 5579
ISSUED TO: GERALD E LUCHANSKY
CATEGORIES: UMR *****
EXPIRATION DATE: 05/25/2013



Pennsylvania Department of Environmental Protection

**Rachel Carson State Office Building
P.O. Box 8763
Harrisburg, PA 17105-8763**

November 19, 2008

Bureau of Waste Management

Local and Out of State: 717-772-5599
In PA: 1-800-42-TANKS

PENNSYLVANIA TECTONICS, INCORPORATED
826 MAIN ST
PECKVILLE, PA 18452-2320

Re: Authorization Number: 751543

Dear Applicant:

This is to notify you that

PENNSYLVANIA TECTONICS, INCORPORATED

meets the qualifications established under the Storage Tank and Spill Prevention Act and the Department of Environmental Protection's (DEP) regulations for company certification. The enclosed certificate is your company's certification document.

**Company Certification Number: 1517
DEP Client ID Number: 187112**

This certification expires on 02/07/2012. To renew this certification, a completed application must be submitted to DEP at least 120 days prior to the certification expiration date.

Company certification is conditioned upon compliance with the Storage Tank and Spill Prevention Act and the rules and regulations established under the Act. Certified companies must employ certified installers and certified inspectors to perform tank handling, tightness testing and inspection activities. Failure to comply with the Act could result in the assessment of fines or penalties and the suspension or revocation of the certification.

If there is a change in the information in the original application for company certification, you must notify DEP of the change by promptly filing an application containing the amended information.

If you have questions or need further assistance, please contact the Division of Storage Tanks' Certification Unit at the above numbers.

Sincerely,

Eric A. Lingle, Chief
Certification Unit
Division of Storage Tanks

ATTACHMENT D

Initial Registration of Storage Tanks Form

Pennsylvania tectonics

July 21, 2010

Mr. Eric Supey
Pennsylvania Department of Environmental Protection
Northeast Regional Office
2 Public Square
Wilkes-Barre, PA 18711-0790

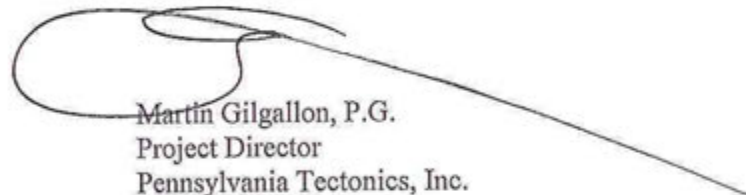
**RE: Registration of Storage Tank for Removal;
Lewis Service Station Property:
RR #2 Box 57
Scott Township, Lackawanna County, Pennsylvania
PADEP Facility ID# 35-10233
Pennsylvania Tectonics Project Number: 27058**

Dear Mr. Supey,

On the behalf of Mrs. Ruth Lewis, enclosed please find a Storage Tanks Registration / Permitting Application Form in association with the above referenced facility. The purpose of this submittal is to register a 550-gallon used motor oil UST for removal. This UST was recently discovered onsite. A check in the amount of \$50.00 is also enclosed to cover the registration fee.

I trust this information meets your needs. Please do not hesitate to contact me if you have any questions or comments on the contents of this letter or the project in general.

Sincerely,



Martin Gilgallon, P.G.
Project Director
Pennsylvania Tectonics, Inc.

MG/mg - 27058

Enclosures

cc: Mrs. Ruth Lewis (with enclosures)
Mr. Marshal Lewis (with enclosures)
Pennsylvania Tectonics Project #27058

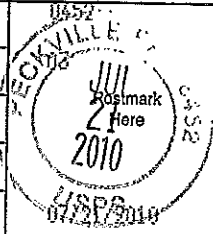
environmental consultants

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.37
Certified Fee	\$2.00
Return Receipt Fee (Endorsement Required)	\$2.30
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$ 6.49



7006 0810 0003 2182 5926

Sent To Mr. Eric Supey - PADEP
Street, Apt. No., or PO Box No. 2 Public Square
City, State, ZIP+4 W: Walker Base, PA 18711-0790
 PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Mr. Eric Supey
 PADEP
 2 Public Square
 W: Walker Base, PA 18711-0790

2. Article Number
 (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name) _____ Date of Delivery _____

Is delivery address different from item 1? Yes
 No

If YES, enter delivery address below:
 JUL 22 2010

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

7006 0810 0003 2182 5926

PENNSYLVANIA TECTONICS INC.

826 MAIN STREET PH. 670-487-1959
PECKVILLE, PA 18462

6101

DATE 7/21/10

60-1/313
100

PAY
TO THE
ORDER OF

Commonwealth of Pennsylvania \$ 50.00

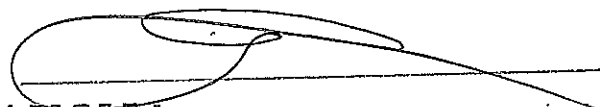
Fifty dollars ⁰⁰/₁₀₀ DOLLARS

VOID AFTER 60 DAYS

 **PNCBANK**

PNC Bank, N.A. 030
Northeast PA

For _____



⑈006101⑈ ⑆031300012⑆ 9009176089⑈



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

**STORAGE TANKS REGISTRATION / PERMITTING
APPLICATION FORM**

Before completing this form, read the step-by-step instructions provided in this application package.

35-10233 Facility ID # Lewis Brothers Facility Name	DEP USE ONLY	
	Client ID#	
	Site ID#	
	Account #	
	Auth ID#	
	APS ID#	
Master Auth ID#		

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- | | |
|---|--|
| <input type="checkbox"/> Register Tanks(s) to be Used | <input type="checkbox"/> Register Tank(s) to be Temporarily Out of Use |
| <input type="checkbox"/> Register Tank(s) to be Removed | <input type="checkbox"/> Register Tank(s) to be Closed in Place |

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- | | |
|--|--|
| <input type="checkbox"/> Changed Owner Information | <input type="checkbox"/> Changed Contact Information |
| <input type="checkbox"/> Changed Facility Information | <input type="checkbox"/> Changed Facility Operation Information |
| <input type="checkbox"/> Changed to Currently In Use Tank(s) | <input checked="" type="checkbox"/> Added Tank(s) to Existing Facility |
| <input type="checkbox"/> Changed to Temporarily Out of Use Tank(s) | <input type="checkbox"/> Changed to Permanently Closed Tank(s)/Removed |
| <input type="checkbox"/> Changed Product | <input type="checkbox"/> Changed to Exempt Tank(s) |

CHANGE OF OWNERSHIP

- Tanks Changed Ownership and Remain at Same Facility

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)		
		<input type="checkbox"/> Volunteer Fire Co/EMS Org	<input type="checkbox"/> State Govt	<input type="checkbox"/> Fed Govt
Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#		
Lewis Brothers				
Individual Last Name	First Name	MI	Suffix	SSN
Additional Individual Last Name	First Name	MI	Suffix	SSN
Mailing Address Line 1	Mailing Address Line 2			
3 Hunts Court				
Address Last Line - City	State	ZIP+4	Country	
Clarks Summit	PA	18411	USA	
Client Contact Last Name	First Name	MI	Suffix	
Lewis	Ruth	D.	Mrs.	
Client Contact Title	Phone	Ext		
P.O.A.	570-587-3182			
E-mail Address	FAX			
NA	570-587-5311			

III. SITE INFORMATION

DEP Site ID#	Site Name		
	Lewis Brothers		
EPA ID#	Estimated Number of Employees to be Present at Site		0
Description of Site			
Former Gasoline Service Station			
County Name	Municipality	City	Boro Twp State
Lackawanna	Scott Township	<input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
County Name	Municipality	City	Boro Twp State
		<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Site Location Line 1		Site Location Line 2	
Route 347			
Site Location Last Line – City		State	ZIP+4
Olyphant		PA	18447
Detailed Written Directions to Site			
From Interstate 81 North:			
-Exit 191A to Business Route 6 Toward Dickson City			
-Take Business Route 6 ~3.0 miles to Route 347			
-Make Left onto Route 347			
-Follow Route 347 ~1.5 miles; site is located on the left (white block & wood structure); Pumps along Road, Tanks to left of building			
-Cross Street is Hilltop Drive			
Site Contact Last Name	First Name	MI	Suffix
Lewis	Ruth	D.	Mrs.
Site Contact Title	Site Contact Firm		
P.O.A.			
Mailing Address Line 1		Mailing Address Line 2	
3 Hunts Court			
Address Last Line – City		State	ZIP+4
Clarks Summit		PA	18411
Phone	Ext	FAX	E-mail Address
570-587-3182		570-587-5311	
NAICS Codes (Two- & Three-Digit Codes – List All That Apply)			6-Digit Code (Optional)
Site to Client Relationship			
Owner			

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID# 35-10233	Facility Name Lewis Brothers	Facility Kind MFULS				
Facility Location Line 1 (if different than Site Location) Same		Facility Location Line 2				
Facility Location Last Line - City Same	State	ZIP+4				
Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
	41	29	57	-75	37	40
Horizontal Accuracy Measure	Feet	--or--	Meters			
Horizontal Reference Datum Code	<input checked="" type="checkbox"/> North American Datum of 1927 <input type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984					
Horizontal Collection Method Code						
Reference Point Code						
Altitude	Feet	~1,520'	--or--	Meters		
Altitude Datum Name	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)					
Altitude (Vertical) Location Datum Collection Method Code						
Geometric Type Code						
Data Collection Date						
Source Map Scale Number	USGS 7.5 Scranton, PA Quad	Inch(es)	=	Feet		
	--or--	Centimeter(s)	=	Meters		
Flammable & Combustible Liquid Permit # (if applicable)						
State or Municipality that Issued the Permit						

FACILITY OPERATOR INFORMATION

Same as Owner Identified in Section II. Different than Owner Identified in Section II; identified below.

DEP Client ID#	Client Type / Code				
Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#			
Individual Last Name	First Name	MI	Suffix	SSN	
Additional Individual Last Name	First Name	MI	Suffix	SSN	
Mailing Address Line 1	Mailing Address Line 2				
Address Last Line - City	State	ZIP+4	Country		
Client Contact Last Name	First Name	MI	Suffix		
Client Contact Title	Phone			Ext	
E-mail Address	FAX				

V. CHANGE OF OWNERSHIP INFORMATION

- All Tanks Changed Ownership at the Facility
 Some Tanks Changed Ownership at the Facility (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II. Current or New Tank Yes No
Owner/Client Information

OWNERSHIP CHANGE FROM (previous owner information)

Name _____
Employer ID# (EIN) or SSN _____
Mailing Address Line 1 _____
Mailing Address Line 2 _____
Address Last Line - City _____ State _____ ZIP+4 _____
Previous Facility ID# _____
Date of Sale/Transfer _____

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner has attached a deed of transfer or other proof of ownership to this application. Yes No N/A

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name _____

Previous Owner Signature Title Date

Facility ID# 35-10233

Facility Name Lewis Brothers

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.

Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt
 Type Codes: M-Manufactured F-Field Constructed

R-Removed

P-Closed In Place

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
A										
A										
A										
A										
A										
A										
A										
A										
A										
A										

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance) (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
003	C	T	M	05/01/1990	01/23/2008	6,000	GAS			
004	C	T	M	05/01/1990	01/23/2008	10,000	GAS			
005	C	T	M	00/00/0000	07/21/2010	550	USDOL			

Facility ID# 35-10233

Facility Name Lewis Brothers

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
	003	004	005														
A. Unprotected Steel (Single Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cathodically Protected Steel (Galvanic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Cathodically Protected Steel (Impressed Current)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Unprotected Steel (Double Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Fiberglass (Single Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Fiberglass (Double Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Steel W/Plastic or Fiberglass Jacket or Double Wall Act 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Steel With FRP Coating (Act 100 or Equivalent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Steel With Lined Interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O. Cathodically Protected Double Wall Steel (Galvanic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P. Cathodically Protected Steel With Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q. Double Bottom (AST's Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R. Molded Plastic Form (AST's Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T. Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID# 35-10233 Facility Name Lewis Brothers

	Underground Piping Construction & Corrosion Protection (2)											
	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cathodically Protected Metallic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Single Wall Fiberglass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Single Wall Flexible (Non-Metallic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Double Wall Metallic Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Double Wall Rigid (FRP) Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Double Wall Flexible Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L. Trench Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
Aboveground Piping Construction & Corrosion Protection (3)												
A. Carbon Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cathodically Protected Metallic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Single Wall Fiberglass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Single Wall Flexible (Non-Metallic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. PVC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Double Wall - Metallic Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Double Wall - Rigid (FRP) Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Double Wall - Flexible Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L. Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spill Prevention (6) UST Only												
Y. Installed and Liquid Tight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Fill In Less Than 25 Gallons (Exempt)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID# 35-10233 Facility Name Lewis Brothers

		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
		003	004	005									
Overfill Prevention (7)													
A.	Overfill Alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B.	Ball Float Valve and No Air Eliminator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E.	Fill In Less Than 25 Gallons (Exempt)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N.	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S.	Drop Tube Shutoff Device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y.	Yes (AST only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency Containment (16) ASTs Only													
E.	Exempt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N.	No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y.	Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary Containment (17) ASTs Only													
E.	Exempt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N.	No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y.	Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stage I Vapor Recovery (19) USTs Only													
Tank #		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
003		004	005										
A.	Coax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B.	2 Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N.	None or Incomplete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stage II Vapor Recovery (20)													
Tank #		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
003		004	005										
A.	Complete Balance System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B.	Complete Assist System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C.	UG Piping Only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N.	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tank-top Containment Sumps Present (21) USTs Only											
	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. At some penetrations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. At all penetrations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Under-dispenser Containment Present (22) USTs Only											
N. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. At some dispensers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. Under all dispensers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Line Leak Detector Shuts Off Pump (23) USTs Only											
N. No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID# 35-10233

Facility Name Lewis Brothers

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an in the appropriate box for each tank that was removed or closed in place.

	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
	003	004	005									
<i>Items 2 & 3 below apply to large ASTs and all USTs</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Closure document submitted to the appropriate DEP regional office.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Closure document kept on file by owner.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

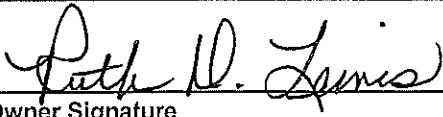
IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name Mrs. Ruth Lewis

	Owner	July 21, 2010
Owner Signature	Title	Date

Information & Invoices should be sent to:

- Tank Owner Contact
- Site Contact
- Facility Operator
- Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
Individual Last Name	First Name	MI	Suffix	SSN
Additional Individual Last Name	First Name	MI	Suffix	SSN
Mailing Address Line 1		Mailing Address Line 2		
Address Last Line – City		State	ZIP+4	Country

Client to Site (Facility) Relationship

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

ATTACHMENT E

Amended Registration of Storage Tanks Form

Pennsylvania tectonics

July 29, 2010

PA DEP
Bureau of Watershed Conservation
Division of Storage Tanks
P.O. Box 8762
Harrisburg, PA 17105-8762

VIA CERTIFIED MAIL #7006 0810 0003 2182 6008

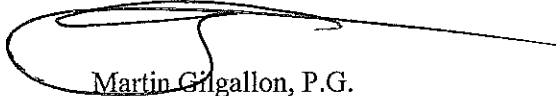
**RE: Amended Registration of Storage Tank Form;
Lewis Service Station Property:
RR #2 Box 57
Scott Township, Lackawanna County, Pennsylvania
PADEP Facility ID# 35-10233
Pennsylvania Tectonics Project Number: 27058**

Dear Sir / Madam,

Attached, please find one (1) copy of the Amended Registration of Storage Tanks Form for the above referenced facility. Please note, Tank #005 was reported to be 550-gallons in capacity and was initially registered as such. The tank was noted to be 1,000-gallons in capacity upon removal.

I trust this information meets your needs at this time. Please feel free to contact me if you have any questions or comments concerning the information presented on this form or the project in general.

Sincerely,



Martin G. Gallon, P.G.
Project Director
Pennsylvania Tectonics, Incorporated

Attachment

MG/mg – PADEP Cover Letter

cc: Mrs. Ruth Lewis / Lewis Brothers Garage (with attachments)
Mr. Marshal Lewis (with attachments)
Pennsylvania Tectonics Project File #27058

environmental consultants



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

**STORAGE TANKS REGISTRATION / PERMITTING
APPLICATION FORM**

Before completing this form, read the step-by-step instructions provided in this application package.

35-10233 Facility ID # Lewis Brothers Facility Name	DEP USE ONLY
	Client ID#
	Site ID#
	Account #
	Auth ID#
	APS ID#
	Master Auth ID#

I. PURPOSE OF SUBMITTAL

INITIAL (Applies to First-Time Facility Registration)

- | | |
|---|--|
| <input type="checkbox"/> Register Tanks(s) to be Used | <input type="checkbox"/> Register Tank(s) to be Temporarily Out of Use |
| <input type="checkbox"/> Register Tank(s) to be Removed | <input type="checkbox"/> Register Tank(s) to be Closed in Place |

AMENDED (Applies to Currently Registered Tank(s) or Existing Facility)

- | | |
|--|---|
| <input type="checkbox"/> Changed Owner Information | <input type="checkbox"/> Changed Contact Information |
| <input type="checkbox"/> Changed Facility Information | <input type="checkbox"/> Changed Facility Operation Information |
| <input type="checkbox"/> Changed to Currently In Use Tank(s) | <input type="checkbox"/> Added Tank(s) to Existing Facility |
| <input type="checkbox"/> Changed to Temporarily Out of Use Tank(s) | <input checked="" type="checkbox"/> Changed to Permanently Closed Tank(s)/Removed |
| <input type="checkbox"/> Changed Product | <input type="checkbox"/> Changed to Exempt Tank(s) |

CHANGE OF OWNERSHIP

- Tanks Changed Ownership and Remain at Same Facility

II. CURRENT OR NEW TANK OWNER / CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Fee Kind (check one if applicable)		
		<input type="checkbox"/> Volunteer Fire Co/EMS Org	<input type="checkbox"/> State Govt	<input type="checkbox"/> Fed Govt
Organization Name or Registered Fictitious Name	Employer ID# (EIN)	Dun & Bradstreet ID#		
Lewis Brothers				
Individual Last Name	First Name	MI	Suffix	SSN
Additional Individual Last Name	First Name	MI	Suffix	SSN
Mailing Address Line 1	Mailing Address Line 2			
3 Hunts Court				
Address Last Line - City	State	ZIP+4	Country	
Clarks Summit	PA	18411	USA	
Client Contact Last Name	First Name	MI	Suffix	
Lewis	Ruth	D.	Mrs.	
Client Contact Title	Phone	Ext		
P.O.A.	570-587-3182			
E-mail Address	FAX			
NA	570-587-5311			

III. SITE INFORMATION

DEP Site ID#	Site Name Lewis Brothers		
EPA ID#	Estimated Number of Employees to be Present at Site 0		
Description of Site Former Gasoline Service Station			
County Name	Municipality	City	Boro Twp State
Lackawanna	Scott Township	<input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> PA
County Name	Municipality	City	Boro Twp State
		<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> PA
Site Location Line 1 Route 347		Site Location Line 2	
Site Location Last Line – City Olyphant		State PA	ZIP+4 18447
Detailed Written Directions to Site From Interstate 81 North: -Exit 191A to Business Route 6 Toward Dickson City -Take Business Route 6 ~3.0 miles to Route 347 -Make Left onto Route 347 -Follow Route 347 ~1.5 miles; site is located on the left (white block & wood structure); Pumps along Road, Tanks to left of building -Cross Street is Hilltop Drive			
Site Contact Last Name Lewis	First Name Ruth	MI D.	Suffix Mrs.
Site Contact Title P.O.A.		Site Contact Firm	
Mailing Address Line 1 3 Hunts Court		Mailing Address Line 2	
Address Last Line – City Clarks Summit		State PA	ZIP+4 18411
Phone 570-587-3182	Ext	FAX 570-587-5311	E-mail Address
NAICS Codes (Two- & Three-Digit Codes – List All That Apply)			6-Digit Code (Optional)
Site to Client Relationship Owner			

IV. FACILITY INFORMATION

DEP Storage Tank Facility ID#	Facility Name	Facility Kind				
35-10233	Lewis Brothers	MFULS				
Facility Location Line 1 (if different than Site Location)		Facility Location Line 2				
Same						
Facility Location Last Line - City		State ZIP+4				
Same						
Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
	41	29	57	-75	37	40
Horizontal Accuracy Measure	Feet	--or--	Meters			
Horizontal Reference Datum Code	<input checked="" type="checkbox"/> North American Datum of 1927 <input type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984					
Horizontal Collection Method Code						
Reference Point Code						
Altitude	Feet	~1,520'	--or--	Meters		
Altitude Datum Name	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)					
Altitude (Vertical) Location Datum Collection Method Code						
Geometric Type Code						
Data Collection Date						
Source Map Scale Number	USGS 7.5 Scranton, PA Quad	Inch(es)	=	Feet		
	--or--	Centimeter(s)	=	Meters		
Flammable & Combustible Liquid Permit # (if applicable)						
State or Municipality that Issued the Permit						

FACILITY OPERATOR INFORMATION

<input checked="" type="checkbox"/> Same as Owner Identified in Section II.		<input type="checkbox"/> Different than Owner Identified in Section II; identified below.				
DEP Client ID#	Client Type / Code					
Organization Name or Registered Fictitious Name			Employer ID# (EIN)	Dun & Bradstreet ID#		
Individual Last Name	First Name	MI	Suffix	SSN		
Additional Individual Last Name	First Name	MI	Suffix	SSN		
Mailing Address Line 1		Mailing Address Line 2				
Address Last Line - City		State	ZIP+4	Country		
Client Contact Last Name	First Name	MI	Suffix			
Client Contact Title		Phone	Ext			
E-mail Address			FAX			

V. CHANGE OF OWNERSHIP INFORMATION

- All Tanks Changed Ownership at the Facility
 Some Tanks Changed Ownership at the Facility (List all applicable tank numbers in Section VI.)

OWNERSHIP CHANGE TO - Client information is noted in Section II. Current or New Tank Yes No
Owner/Client Information

OWNERSHIP CHANGE FROM (previous owner information)

Name _____
Employer ID# (EIN) or _____
SSN _____
Mailing Address Line 1 _____
Mailing Address Line 2 _____
Address Last Line - City _____ State _____ ZIP+4 _____
Previous Facility ID# _____
Date of Sale/Transfer _____

SIGNATURE & CERTIFICATION OF PREVIOUS OWNER

Previous owner's signature is not available. As required, the "new" owner Yes No N/A
has attached a deed of transfer or other proof of ownership to this
application.

I have reviewed this form for submission to the Department. I certify under penalty of law as provided in 18 PA. C.S.A. §4903 (relating to false swearing) and 18 PA. C.S.A. §4904 (relating to unsworn falsification to authorities), that I have the authority to sign this Section for the transfer of permit or registration for the storage tanks listed herein. Further, I certify that all information provided in Section V is true, accurate and complete to the best of my knowledge and belief.

Type or Print Previous Owner Name _____

Previous Owner Signature Title Date

Facility ID# 35-10233

Facility Name Lewis Brothers

VI. STORAGE DESCRIPTION

Type or print legibly each regulated storage tank at this facility under your ownership.

Status Codes: C-Currently in Use T-Temporarily Out of Use E-Exempt
 Type Codes: M-Manufactured F-Field Constructed

A. ABOVEGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
A										
A										
A										
A										
A										
A										
A										
A										
A										
A										

B. UNDERGROUND TANKS. List all new tanks. If amending information, list only those tanks being amended. Copy this page if more lines are needed.

Tank#	Prev Status	New Status	Type	Install Date (Mo/Day/Yr)	Change of Status Date (Mo/Day/Yr)	Capacity (Gallons)	Substance Code (Currently or Last Stored)	CERCLA Name (If Hazardous Substance (If Other Petroleum Substance or Petroleum Based Mixture)	CAS# (If Hazardous Substance)	Exempt Reference Code
003	C	T	M	05/01/1990	01/23/2008	6,000	GAS			
004	C	T	M	05/01/1990	01/23/2008	10,000	GAS			
005	T	R	M	00/00/0000	07/27/2010	1,000	USDOL			

Facility ID# 35-10233

Facility Name Lewis Brothers

VII. ABOVEGROUND & UNDERGROUND NEW TANK INSTALLATION INFORMATION

The DEP Certified Installer should complete this section. New tanks listed in Section VI must also be listed in this Section. Write the Tank Number(s) and place an in the appropriate box for each component that was installed.

Tank Construction & Corrosion Protection (1)	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
	003	004	005														
A. Unprotected Steel (Single Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cathodically Protected Steel (Galvanic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Cathodically Protected Steel (Impressed Current)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Unprotected Steel (Double Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Fiberglass (Single Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Fiberglass (Double Wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Steel W/Plastic or Fiberglass Jacket or Double Wall Act 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Steel With FRP Coating (Act 100 or Equivalent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Steel With Lined Interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O. Cathodically Protected Double Wall Steel (Galvanic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P. Cathodically Protected Steel With Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q. Double Bottom (AST's Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R. Molded Plastic Form (AST's Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T. Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID# 35-10233 Facility Name Lewis Brothers

		Underground Piping Construction & Corrosion Protection (2)																		
		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #									
A.	Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B.	Cathodically Protected Metallic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C.	Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D.	Single Wall Fiberglass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E.	Single Wall Flexible (Non-Metallic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G.	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I.	Double Wall Metallic Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J.	Double Wall Rigid (FRP) Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K.	Double Wall Flexible Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L.	Trench Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
		Aboveground Piping Construction & Corrosion Protection (3)																		
A.	Carbon Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B.	Cathodically Protected Metallic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C.	Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D.	Single Wall Fiberglass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E.	Single Wall Flexible (Non-Metallic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F.	PVC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G.	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I.	Double Wall - Metallic Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J.	Double Wall - Rigid (FRP) Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K.	Double Wall - Flexible Primary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L.	Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
		Spill Prevention (6) UST Only																		
Y.	Installed and Liquid Tight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N.	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E.	Fill In Less Than 25 Gallons (Exempt)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID# 35-10233 Facility Name Lewis Brothers

Overfill Prevention (7)		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Overfill Alarm	<input type="checkbox"/>	003	004	005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Ball Float Valve and No Air Eliminator	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Fill In Less Than 25 Gallons (Exempt)	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. None	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. Drop Tube Shutoff Device	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes (AST only)	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency Containment (16) ASTs Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
E. Exempt	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. No	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary Containment (17) ASTs Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
E. Exempt	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. No	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stage I Vapor Recovery (19) USTs Only		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Coax	<input type="checkbox"/>	003	004	005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. 2 Point	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. None or Incomplete	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stage II Vapor Recovery (20)		Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
A. Complete Balance System	<input type="checkbox"/>	003	004	005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Complete Assist System	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. UG Piping Only	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. None	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tank-top Containment Sumps Present (21) USTs Only										
	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. At some penetrations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. At all penetrations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Under-dispenser Containment Present (22) USTs Only										
	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S. At some dispensers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. Under all dispensers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Line Leak Detector Shuts Off Pump (23) USTs Only										
	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
N. No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y. Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility ID# 35-10233

Facility Name Lewis Brothers

VIII. ABOVEGROUND & UNDERGROUND TANK INFORMATION FOR PERMANENT CLOSURE

Write the Tank Number(s) and place an in the appropriate box for each tank that was removed or closed in place.

	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #	Tank #
	003	004	005									
<i>Items 2 & 3 below apply to large ASTs and all USTs</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1. Contamination suspected or observed and notification of contamination form was submitted to the appropriate DEP regional office.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Closure document submitted to the appropriate DEP regional office.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Closure document kept on file by owner.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

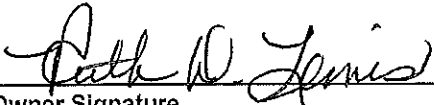
IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. This registration is conditioned upon compliance with provisions of the Storage Tank and Spill Prevention Act of 1989, all applicable regulations, and with the requirements for obtaining and maintaining a permit required under this Act. I certify my responsibility for assuring the following permit requirements:

- Storage tank systems are in compliance with applicable administrative, technical and operational requirements as specified in Subchapter E for underground tanks or Subchapter F or G for aboveground tanks.
- Tank handling and inspection activities are performed by an individual possessing DEP certification in the appropriate category as required in Subchapters A and B.
- Underground storage tanks meet the applicable financial responsibility requirements of Subchapter H (relating to financial responsibility requirements).
- A Spill Prevention Response (SPR) Plan must be submitted to the appropriate DEP regional office for facilities that have aboveground storage tanks where the total capacity of all aboveground tanks is greater than 21,000 gallons.
- Other state and local permits required for operation of the tank system have been attained.

My signature represents to the Department that I own the storage tank(s) and am aware of the responsibilities and potential liabilities as an "owner" arising under the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I am also advised that statements made on this registration is made subject to the penalties of 18 PA. C.S.A. Section 4904 relating to unsworn falsification to authorities.

Type or Print Owner Name Mrs. Ruth Lewis


Owner
7/28/10
Owner Signature
Title
Date

Information & Invoices should be sent to:

- Tank Owner Contact
- Site Contact
- Facility Operator
- Other Responsible Party Identified Below

Organization Name or Registered Fictitious Name		Employer ID# (EIN)		Dun & Bradstreet ID#
Individual Last Name	First Name	MI	Suffix	SSN
Additional Individual Last Name	First Name	MI	Suffix	SSN
Mailing Address Line 1		Mailing Address Line 2		
Address Last Line – City		State	ZIP+4	Country
Client to Site (Facility) Relationship				

X. INSTALLER / REMOVER CERTIFICATION

This section must be completed by the certified tank handler(s) who is responsible for the installation or removal from service of the aboveground and underground storage tank systems listed in Section VI. Tank modification activity must be submitted on a "Tank Modification Report" form.

SIGNATURE & CERTIFICATION OF INSTALLER(S) / REMOVER(S)

As the certified tank handler responsible for the tank handling activities in the category or categories listed, I certify that all tank handling activities were conducted in compliance with the design, installation and operation standards of the Storage Tank and Spill Prevention Act of 1989 and all applicable regulations. I also certify, under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided therein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Installer/Remover Signature	Date
005	Jerry Luchansky	UL-58	5579	UMP	1517	<i>Jerry Luchansky</i>	July 27, 2010

XI. INSPECTOR CERTIFICATION

This section must be completed by the DEP Certified Tank Inspector(s) who is responsible for verifying the installation standards for field constructed tanks and aboveground tanks greater than 21,000 gallons listed in Section VI. (Type or Print legibly) A DEP Certified Inspector may also be responsible for inspecting existing ASTs which are entering regulated service for the first time with no tank handling activities.

SIGNATURE & CERTIFICATION OF INSPECTOR(S)

As the certified tank inspector responsible for verifying tank handling activities and construction standards, I certify that the tank(s) listed below are constructed to appropriate industry standards and, if applicable, to manufacturer's specifications; that the tank(s) have been tested as required by industry standards; and that the tank(s) meet or exceed applicable design and operating standards; and are in compliance with the requirements of the Storage Tank and Spill Prevention Act of 1989, and all applicable regulations. I also certify under penalty of law as provided in 18 PA C.S.A. 4904 (relating to unsworn falsification to authorities), that the information provided herein is true, accurate and complete to the best of my knowledge and belief.

Tank#	Installer/Remover Name	Construction Standard	Individual Certification#	Certification Category	Company Certification#	Inspector Signature	Date

XII. SITE SPECIFIC INSTALLATION PERMIT NUMBER

If a site-specific permit was required for a new tank installation, write the tank number(s) and permit number(s) in the appropriate box.

Site-Specific Installation Permit	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#	Tank#

ATTACHMENT F
PADEP 30-Day Notification

Pennsylvania tectonics

July 21, 2010

Pennsylvania Department of Labor
Bureau of Occupational & Industrial Safety
16th Floor, L&I Building
7th & Forster Streets
Harrisburg, PA 17120

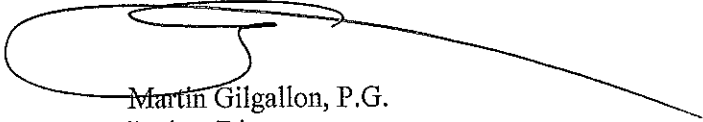
**RE: Underground Storage Tank Closure Notification Form:
Lewis Brothers Property;
Route 347
Scott Township, Lackawanna County, Pennsylvania
PADEP Facility ID# 35-10233
Pennsylvania Tectonics Project Number: 27058**

Dear Sir / Madam,

Enclosed, please find the completed Underground Storage Tank Closure Notification Form for the above referenced facility. This notification serves to inform the Pennsylvania Department of Labor and Industry of Lewis Brothers' intent to close the one (1) UST system via removal. The PADEP has verbally granted a waiver on the 30-day waiting period.

I trust this information meets your needs. Please do not hesitate to contact me if you have any questions or comments concerning the contents of this letter or the project in general.

Sincerely,



Martin Gilgallon, P.G.
Project Director
Pennsylvania Tectonics, Inc.

MG/mg -- 27058

Attachments

cc: Mrs. Ruth Lewis
Mr. Marshal Lewis
Pennsylvania Tectonics Project File # 27058

environmental consultants

Pennsylvania tectonics

July 21, 2010

Mr. Eric Supey
Pennsylvania Department of Environmental Protection
Northeast Regional Office
2 Public Square
Wilkes-Barre, PA 18711-0790

VIA CERTIFIED MAIL #7006 0810 0003 2182 5926

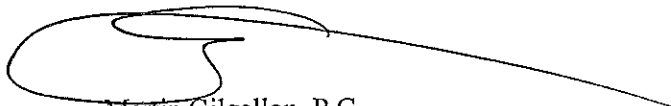
**RE: Underground Storage Tank Closure Notification Form:
Lewis Brothers Property;
Route 347
Scott Township, Lackawanna County, Pennsylvania
PADEP Facility ID# 35-10233
Pennsylvania Tectonics Project Number: 27058**

Dear Mr. Supey,

Enclosed, please find a completed Pennsylvania Department of Environmental Protection Underground Storage Tank Closure Notification Form associated with the one (1) underground storage tank (UST) located at the above referenced subject property. As discussed with Mr. Tom Coar on this day, the PADEP has granted a waiver of the required 30-day notification period. Pennsylvania Tectonics anticipates completing the closure activities within two (2) weeks of the date of this letter.

I trust this information meets your needs. Please do not hesitate to contact me if you have any questions or comments concerning the contents of this letter or the project in general.

Sincerely,



Martin Gilgallon, P.G.
Project Director
Pennsylvania Tectonics, Inc.

MG/mg - 27058

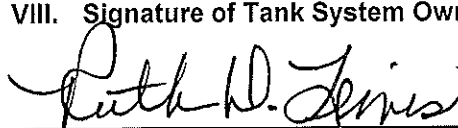
Attachments

cc: Mrs. Ruth Lewis
Mr. Marshal Lewis
Pennsylvania Tectonics Project File # 27058

environmental consultants

**UNDERGROUND STORAGE TANK SYSTEM
CLOSURE NOTIFICATION FORM**

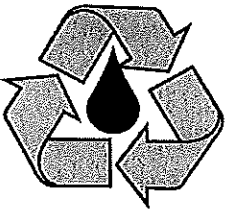
NOTE: Notification of permanent closure must be received by the appropriate regional office of the Department at least 30 days prior to initiation of the closure activities.

I. Owner of Tank System			
Owner Name Mrs Ruth Lewis			
Street Address 3 Hunts Court			Phone Number (570) 587 - 3182
City Clarks Summit		State PA	Zip Code 18411 -
II. Location of Tank System			
Facility Name Lewis Brothers			Facility Identification Number 35 - 10233
Street Address Route 347		City Olyphant	State PA
Municipality Scott Township		Zip Code 18447 -	
County Lackawanna			
Contact Person Mrs Ruth Lewis			Phone Number (570) 587 - 3182
III. Month/Day/Year of Proposed Closure <u>07 / 28 / 2010</u>			
IV. Certified Installer/Company Performing Tank Handling Activities			
Certified Installer Name Martin P. Gilgallon			Installer Certification Number 4294
Street Address 826 Main Street			Phone Number (570) 487 - 1959
City Peckville		State PA	Zip Code 18452 -
Certified Company Name Pennsylvania Tectonics, Incorporated			Company Certification Number 1517
V. Contractor/Individual Performing Site Assessment Activities			
Name of Contractor or Individual Martin P. Gilgallon			
Street Address 826 Main Street			Phone Number (570) 487 - 1959
City Peckville		State PA	Zip Code 18452 -
VI. Description of Underground Storage Tank Systems (See reverse side of form)			
VII. Will this closure involve replacement of at least one old tank with a new tank?			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
VIII. Signature of Tank System Owner 			Date 07 / 21 / 2010

VI. Description of Underground Storage Tank System (Complete for each tank undergoing closure)				
Tank Registration Number	005			
Estimated Total Capacity (Gallons)	550			
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	a. Petroleum			
	Unleaded Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Leaded Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Aviation Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Jet Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Diesel Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	New Motor Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Used Motor Oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other, Please Specify			
b. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Name of Principal CERCLA Substance				
AND				
Chemical Abstract Service (CAS) No.				
c. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proposed Closure Method (Check Only One)	a. Removal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	b. Closure-in-Place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Change-In-Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partial System Closure (Yes or No)	No	No		
Tank Registration Number				
Estimated Total Capacity (Gallons)				
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	a. Petroleum			
	Unleaded Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Leaded Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Aviation Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Jet Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Diesel Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuel Oil No. 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	New Motor Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Used Motor Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other, Please Specify			
b. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Name of Principal CERCLA Substance				
AND				
Chemical Abstract Service (CAS) No.				
c. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proposed Closure Method (Check Only One)	a. Removal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Closure-in-Place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Change-In-Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partial System Closure (Yes or No)				

ATTACHMENT G

Drummed Waste T&D Documentation



HAZLETON OIL & ENVIRONMENTAL, Inc.

"Your Recycling Partner"

PA DEP # 301295
EPA # PA0000101816
NY PERMIT # PA395

No #: 131865

300 Tamaqua Street
Hazleton, PA 18201-7913
Phone: 800-458-3496
Fax: 570-929-3048
E-mail: info@hazletonoil.com
Web: www.hazletonoil.com

WORK ORDER

IMPORTANT DOCUMENT FOR YOUR FILES
HAZLETON OIL & ENVIRONMENTAL, INC. TAKES FULL RESPONSIBILITY for the pickup, transportation and disposal of all waste accepted by our company.

Company	Date <u>8-19-10</u>	Job Site
PA Tectonics 826 Main Street Peckville, PA 18452-2320	Contact <u>Marty Gilgallon</u>	Lewis Brothers Garage PA Route 347 Olyphant, PA 18447
	Phone <u>570-487-1959</u>	
	Time Arrived	
Driver <u>Rich R</u>	Time Finished	Vehicle <u>428825</u>

Quantity	Description	Price	Total
<u>1</u>	BO Bottoms/Sludge <u>55 gal DM</u>		
<u>1</u>	OD Oily Debris <u>55 gal DM</u>		

Halogen Test: Y N Results PPM

Driver Signature if COD <u>[Signature]</u>	Check if Cash	Check Number	Net 30 DAYS	Total
--	---------------	--------------	-------------	--------------

Accepted by: Please Sign [Signature] Accepted by: Please Print DEAN CRIVELLO
PA TECTONICS, INC.

Generator Certified this waste oil:
 - Is not flammable.
 - Is not mixed with chlorinated solvents/cleaners.
 - Has not been mixed with hazardous waste/PCBs.
 - Does not exhibit any characteristics under 40 CRF 261, ref 24 PA code 261 a.1.
 - Is not mixed with hazardous waste according to 25 PA. Code 298. 10(b)(2)(III).

ATTACHMENT H

Weight Slip for Clean Fill

CARL FROM
EXCAVATING
SEPTIC SERVICE


225 COUNTRY CLUB ROAD
 SCOTT TWP, PA 18433
 (570) 254-6735

CUSTOMER'S ORDER NO. _____ PHONE _____ DATE 07-28-10
 NAME PENNSYLVANIA TECTONICS INC
 ADDRESS 826 MAIN ST
Parkville Pa

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSÉ. RET'D.	PAID OUT
---------	------	--------	--------	----------	--------------	----------

QTY.	DESCRIPTION	PRICE	AMOUNT
10	TON of Modifg Delivered to Jewis Brother Garage 347 SCOTT Twp		
			\$150.00
	REC'D 6/1/19		
Bills paid within 14 days will not be charged interest.			TAX
RECEIVED BY _____			TOTAL

All claims and returned goods MUST be accompanied by this bill.

 To Reorder:
 800-225-6380 or nebs.com

THANK YOU

ATTACHMENT I
Certificate of Cleaning



CERTIFICATE OF TANK CLEANING

Pennsylvania Tectonics, Incorporated certifies that the following Underground Storage Tank (UST) has been cleaned in accordance with American Petroleum Institute Publication 2015: Cleaning Petroleum Storage Tanks, Third Edition, September 1985.

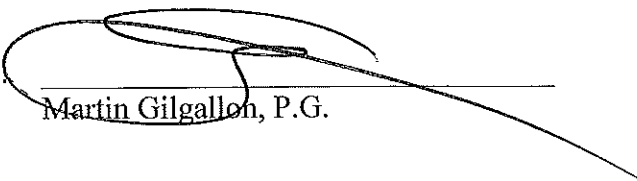
One (1) – 1,000-gallon used motor oil UST was cleaned onsite by Pennsylvania Tectonics and transported offsite for recycling.

Location: Lewis Brothers Garage Property
Route 347
Scott Township, Lackawanna County, Pennsylvania

PA Tectonics Project Number: 27058

Facility I.D. #35-10233

Verified By:


Martin Gilgallon, P.G.

Date: 07/27/10

environmental consultants

ATTACHMENT J

Certificate of Destruction

MIKE'S SCRAP RECYCLING

3001 Boulevard Ave. - Scranton, PA 18509

Phone (570) 346-8124

17464

Date 7/27/10 Time 12:40

Received From Peri Technics

Address Perkville

Signature _____

License Number of Vehicle _____

11200

10400

800 TANK X 6.50 = 52.00

P.W. License # (V) 057456

(M) 057457

(G) 057458

(R) 065440

Signature [Signature]

Cust. Signature _____

Seller, his heirs, successors, and assigns, does hereby warrant and defend the title of all merchandise, good, chattels and articles of personal property, hereby sold to Suprick Enterprises, Inc. against all and every person and persons whomsoever.

ATTACHMENT K

Analytical Data Sheets

QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

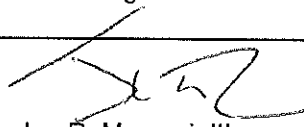
ANALYTICAL REPORT

August 17, 2010

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 27-Jul-10
Sample Time: 10:52
Sampled By: JL/ PA Tectonics
Received By: AK
Date Received: 28-Jul-10
Time Received: 11:50

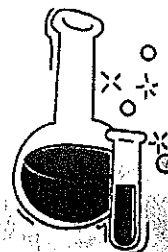
Parameter	Result	Units	Method	Analyzed
058-0727-SS1				
Benzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Ethylbenzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Isopropylbenzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Toluene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Naphthalene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
MTBE	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
1,3,5-Trimethylbenzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
1,2,4-Trimethylbenzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Benzo(a)anthracene	< 0.186	mg/Kg	EPA 8270D	13-Aug-10
Chrysene	< 0.186	mg/Kg	EPA 8270D	13-Aug-10
Benzo(b)fluoranthene	< 0.186	mg/Kg	EPA 8270D	13-Aug-10
Benzo(a)pyrene	< 0.186	mg/Kg	EPA 8270D	13-Aug-10
Indeno(1,2,3-cd)pyrene	< 0.186	mg/Kg	EPA 8270D	13-Aug-10
Benzo(g,h,i)perylene	< 0.186	mg/Kg	EPA 8270D	13-Aug-10
Pyrene	< 0.186	mg/Kg	EPA 8270D	13-Aug-10
Lead (total)	45.6	mg/Kg	EPA 6010B	17-Aug-10


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

August 13, 2010

Martin Gilgallon
PA Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Client Sample ID: 058-0727-SS1

Matrix: Soil

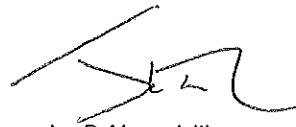
Date Sampled: 27-Jul-10 10:52

Date Received: 28-Jul-10 11:50

Date Analyzed: 29-Jul-10

Analyst: JRM

PARAMETER	RESULT	RESULT	
EPA 8260B/ TCL Volatile Organics	mg/Kg	mg/Kg	
<i>Chloromethane</i>	< 0.005	<i>Bromodichloromethane</i>	< 0.005
<i>Bromomethane</i>	< 0.005	<i>1,2-Dichloropropane</i>	< 0.005
<i>Vinyl Chloride</i>	< 0.005	<i>cis-1,3-Dichloropropene</i>	< 0.005
<i>Chloroethane</i>	< 0.005	<i>Trichloroethene</i>	< 0.005
<i>Methylene Chloride</i>	< 0.005	<i>Dibromochloromethane</i>	< 0.005
<i>Carbon Disulfide</i>	< 0.005	<i>1,1,2-Trichloroethane</i>	< 0.005
<i>1,1-Dichloroethene</i>	< 0.005	<i>Benzene</i>	< 0.005
<i>1,1-Dichloroethane</i>	< 0.005	<i>trans-1,3-Dichloropropene</i>	< 0.005
<i>cis 1,2-Dichloroethene</i>	< 0.005	<i>Bromoform</i>	< 0.005
<i>trans 1,2-Dichloroethene</i>	< 0.005	<i>Tetrachloroethene</i>	< 0.005
<i>1,2-Dichloroethane</i>	< 0.005	<i>1,1,2,2-Tetrachloroethane</i>	< 0.005
<i>1,1,1-Trichloroethane</i>	< 0.005	<i>Toluene</i>	< 0.005
<i>Carbon Tetrachloride</i>	< 0.005	<i>Chlorobenzene</i>	< 0.005
<i>Chloroform</i>	< 0.005	<i>Ethylbenzene</i>	< 0.005
<i>Naphthalene</i>	< 0.005	<i>Styrene</i>	< 0.005
<i>Isopropylbenzene</i>	< 0.005	<i>Xylenes, total</i>	< 0.015
		<i>MTBE</i>	< 0.005
		<i>1,2,4-Trimethylbenzene</i>	< 0.005
		<i>1,3,5-Trimethylbenzene</i>	< 0.005

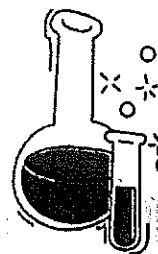


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

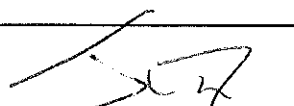
ANALYTICAL REPORT

August 17, 2010

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 27-Jul-10
Sample Time: 10:59
Sampled By: JL/ PA Tectonics
Received By: AK
Date Received: 28-Jul-10
Time Received: 11:50

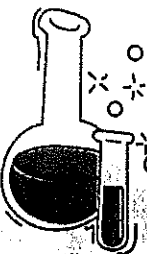
Parameter	Result	Units	Method	Analyzed
058-0727-SS2				
Benzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Ethylbenzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Isopropylbenzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Toluene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Naphthalene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
MTBE	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
1,3,5-Trimethylbenzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
1,2,4-Trimethylbenzene	< 0.005	mg/Kg	EPA 5035/ 8260B	29-Jul-10
Benzo(a)anthracene	< 0.180	mg/Kg	EPA 8270D	13-Aug-10
Chrysene	< 0.180	mg/Kg	EPA 8270D	13-Aug-10
Benzo(b)fluoranthene	< 0.180	mg/Kg	EPA 8270D	13-Aug-10
Benzo(a)pyrene	< 0.180	mg/Kg	EPA 8270D	13-Aug-10
Indeno(1,2,3-cd)pyrene	< 0.180	mg/Kg	EPA 8270D	13-Aug-10
Benzo(g,h,i)perylene	< 0.180	mg/Kg	EPA 8270D	13-Aug-10
Pyrene	< 0.180	mg/Kg	EPA 8270D	13-Aug-10
Lead (total)	166	mg/Kg	EPA 6010B	17-Aug-10


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

August 13, 2010

Martin Gilgallon
PA Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Client Sample ID: 058-0727-SS2

Matrix: Soil

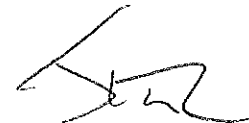
Date Sampled: 27-Jul-10 10:59

Date Received: 28-Jul-10 11:50

Date Analyzed: 29-Jul-10

Analyst: JRM

PARAMETER	RESULT	RESULT	
EPA 8260B/ TCL Volatile Organics	mg/Kg	mg/Kg	
<i>Chloromethane</i>	< 0.005	<i>Bromodichloromethane</i>	< 0.005
<i>Bromomethane</i>	< 0.005	<i>1,2-Dichloropropane</i>	< 0.005
<i>Vinyl Chloride</i>	< 0.005	<i>cis-1,3-Dichloropropene</i>	< 0.005
<i>Chloroethane</i>	< 0.005	<i>Trichloroethene</i>	< 0.005
<i>Methylene Chloride</i>	< 0.005	<i>Dibromochloromethane</i>	< 0.005
<i>Carbon Disulfide</i>	< 0.005	<i>1,1,2-Trichloroethane</i>	< 0.005
<i>1,1-Dichloroethene</i>	< 0.005	<i>Benzene</i>	< 0.005
<i>1,1-Dichloroethane</i>	< 0.005	<i>trans-1,3-Dichloropropene</i>	< 0.005
<i>cis 1,2-Dichloroethene</i>	< 0.005	<i>Bromoform</i>	< 0.005
<i>trans 1,2-Dichloroethene</i>	< 0.005	<i>Tetrachloroethene</i>	< 0.005
<i>1,2-Dichloroethane</i>	< 0.005	<i>1,1,2,2-Tetrachloroethane</i>	< 0.005
<i>1,1,1-Trichloroethane</i>	< 0.005	<i>Toluene</i>	< 0.005
<i>Carbon Tetrachloride</i>	< 0.005	<i>Chlorobenzene</i>	< 0.005
<i>Chloroform</i>	< 0.005	<i>Ethylbenzene</i>	< 0.005
<i>Naphthalene</i>	< 0.005	<i>Styrene</i>	< 0.005
<i>Isopropylbenzene</i>	< 0.005	<i>Xylenes, total</i>	< 0.015
		<i>MTBE</i>	< 0.005
		<i>1,2,4-Trimethylbenzene</i>	< 0.005
		<i>1,3,5-Trimethylbenzene</i>	< 0.005

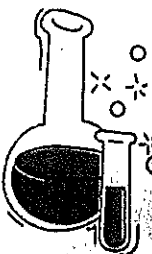


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

Dickson City Industrial Park

824 Enterprise Street

Dickson City, PA 18519-1593

CHAIN OF CUSTODY

Special Requirements

PA (S)P ASIM TOLP

FOFA USE FORMU

FOHLE

Other

Prep Temp

PREP SHEET

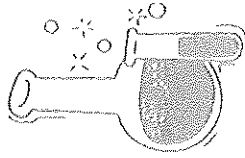
INITIAL

PROJECT: 27058

Location
Sample Description

058.0727.551

058.0727.552



Date Sampled
Time Sampled

7.27.10 1058

7.27.10 1059

Matrix
of Cont / Size

SO

SO

PRSV / Cont Type

* 4

* 4

Grab / Composite

G

G

used motor
TCL VOCs

X

X

DW - Drinking Water

GW - Ground Water

SW - Surface Water

WW - Waste Water

SL - Sludge

SO - Soil

HZ - Hazardous

Other

P Plastic

CG Glass

AG Amber Glass

O Other

PO #

ANALYSIS TO BE PERFORMED

Invoice #

Quantum ID

009 - 072810

010 - 072810

Property: Pennsylvania Tectonics Inc

826 Main Street

Peckville PA 18452

Contact: Martha Gilgallon

Phone: 570.487.1959

Fax: 570.487.1961

Site: Pennsylvania Tectonics Inc

826 Main Street

Peckville PA 18452

Comments: * Sample Kit provided by Lab

Sample: Terry Luchansky

Acquisition By: Amy Kelly

Acquisition Date: 7/28/10

Intact Containers

Y

N

Within Holding Times

Y

N

COC Complete

Y

N

Labels Match COC

Y

N

Properly Preserved

Y

N

Rec'd on Ice

Y

N

Received By: Susan Novak

Date: 7.28.10

Time: 11:35

Date: 7/28/10

Time: 11:35

Received By: Ashley Kelly

Date: 7/28/10

Time: 11:50

Date: 7/28/10

Time: 11:50

APPENDIX J

EDR Governmental Database Report

Lewis Brothers Garage Property

PA Route 347

Scott Township, PA 18447

Inquiry Number: 3552090.1s

March 20, 2013

FirstSearch Report

Prepared using the EDR FieldCheck® System



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

Search Summary Report

TARGET SITE PA ROUTE 347
SCOTT TOWNSHIP, PA 18447

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
<i>NPL</i>	Y	0	0	0	0	0	0	0
<i>NPL Delisted</i>	Y	0	0	0	0	0	0	0
<i>CERCLIS</i>	Y	0	0	0	0	-	0	0
<i>NFRAP</i>	Y	0	0	0	0	-	0	0
<i>RCRA COR ACT</i>	Y	0	0	0	0	0	0	0
<i>RCRA TSD</i>	Y	0	0	0	0	-	0	0
<i>RCRA GEN</i>	Y	0	0	0	-	-	0	0
<i>Federal IC / EC</i>	Y	0	0	0	0	-	0	0
<i>ERNS</i>	Y	0	-	-	-	-	0	0
<i>State/Tribal NPL</i>	Y	0	0	0	0	0	0	0
<i>State/Tribal SWL</i>	Y	0	0	0	0	-	0	0
<i>State/Tribal LTANKS</i>	Y	0	0	0	0	-	0	0
<i>State/Tribal Tanks</i>	Y	0	1	0	-	-	0	1
<i>State/Tribal IC / EC</i>	Y	0	0	0	0	-	0	0
<i>ST/Tribal Brownfields</i>	Y	0	0	0	0	-	0	0
<i>US Brownfields</i>	Y	0	0	0	0	-	0	0
<i>Other Haz Sites</i>	Y	0	-	-	-	-	0	0
<i>Spills</i>	Y	0	-	-	-	-	0	0
<i>Other</i>	Y	0	-	-	-	-	0	0
- Totals --		0	1	0	0	0	0	1

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2013 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Search Summary Report

TARGET SITE: PA ROUTE 347
SCOTT TOWNSHIP, PA 18447

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	NPL	02/01/2013	1.000	0	0	0	0	0	0	0
	Proposed NPL	02/01/2013	1.000	0	0	0	0	0	0	0
NPL Delisted	Delisted NPL	02/01/2013	1.000	0	0	0	0	0	0	0
CERCLIS	CERCLIS	02/04/2013	0.500	0	0	0	0	-	0	0
NFRAP	CERC-NFRAP	02/05/2013	0.500	0	0	0	0	-	0	0
RCRA COR ACT	CORRACTS	02/12/2013	1.000	0	0	0	0	0	0	0
RCRA TSD	RCRA-TSDF	02/12/2013	0.500	0	0	0	0	-	0	0
RCRA GEN	RCRA-LQG	02/12/2013	0.250	0	0	0	-	-	0	0
	RCRA-SQG	02/12/2013	0.250	0	0	0	-	-	0	0
	RCRA-CESQG	02/12/2013	0.250	0	0	0	-	-	0	0
Federal IC / EC	US ENG CONTROLS	12/19/2012	0.500	0	0	0	0	-	0	0
	US INST CONTROL	12/19/2012	0.500	0	0	0	0	-	0	0
ERNS	ERNS	12/31/2012	TP	0	-	-	-	-	0	0
State/Tribal NPL	SHWS	01/08/2013	1.000	0	0	0	0	0	0	0
	HSCA	12/31/2012	1.000	0	0	0	0	0	0	0
State/Tribal SWL	SWF/LF	11/28/2012	0.500	0	0	0	0	-	0	0
State/Tribal LTANKS	LUST	12/03/2012	0.500	0	0	0	0	-	0	0
	LAST	12/03/2012	0.500	0	0	0	0	-	0	0
	INDIAN LUST	04/12/2012	0.500	0	0	0	0	-	0	0
State/Tribal Tanks	UST	11/01/2012	0.250	0	1	0	-	-	0	1
	AST	11/01/2012	0.250	0	0	0	-	-	0	0
	INDIAN UST	04/12/2012	0.250	0	0	0	-	-	0	0
State/Tribal IC / EC	ENG CONTROLS	05/15/2008	0.500	0	0	0	0	-	0	0
	INST CONTROL	05/15/2008	0.500	0	0	0	0	-	0	0
ST/Tribal Brownfields	BROWNFIELDS	10/23/2012	0.500	0	0	0	0	-	0	0
US Brownfields	US BROWNFIELDS	12/10/2012	0.500	0	0	0	0	-	0	0

Search Summary Report

TARGET SITE: PA ROUTE 347
SCOTT TOWNSHIP, PA 18447

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
Other Haz Sites	US CDL	11/14/2012	TP	0	-	-	-	-	0	0
Spills	HMIRS	12/31/2012	TP	0	-	-	-	-	0	0
	SPILLS	01/16/2013	TP	0	-	-	-	-	0	0
Other	RCRA NonGen / NLR	02/12/2013	TP	0	-	-	-	-	0	0
	TRIS	12/31/2009	TP	0	-	-	-	-	0	0
	TSCA	12/31/2006	TP	0	-	-	-	-	0	0
	FTTS	04/09/2009	TP	0	-	-	-	-	0	0
	SSTS	12/31/2009	TP	0	-	-	-	-	0	0
	ICIS	07/20/2011	TP	0	-	-	-	-	0	0
	PADS	11/01/2010	TP	0	-	-	-	-	0	0
	MLTS	06/21/2011	TP	0	-	-	-	-	0	0
	RADINFO	10/02/2012	TP	0	-	-	-	-	0	0
	FINDS	10/23/2011	TP	0	-	-	-	-	0	0
	RAATS	04/17/1995	TP	0	-	-	-	-	0	0
	INDIAN RESERV	12/31/2005	1.000	0	0	0	0	0	0	0
	PRP	12/02/2012	TP	0	-	-	-	-	0	0
	US AIRS	11/15/2012	TP	0	-	-	-	-	0	0
	MINES	10/02/2012	0.250	0	0	0	-	-	0	0
	- Totals --			0	1	0	0	0	0	1

Site Information Report

Request Date: MARCH 20, 2013
Request Name: MARTIN GILGALLON

Search Type: COORD
Job Number: 27058

Target Site: PA ROUTE 347
 SCOTT TOWNSHIP, PA 18447

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>	<u>UTMs</u>
Longitude:	75.628700	75.6287000 - 75° 37' 43.32"	Easting: 447524.7
Latitude:	41.499100	41.4991000 - 41° 29' 56.76"	Northing: 4594142.5
Elevation:	1513 ft. above sea level		Zone: Zone 18

Demographics

Sites: 1	Non-Geocoded: 0	Population: N/A			
RADON:					
EPA Region 3 Statistical Summary Readings for Zip Code: 18447					
Number of sites tested: 80.					
Maximum Radon Level: 89.1 pCi/L.					
Minimum Radon Level: 0.5 pCi/L.					
<u>pCi/L</u> <u><4</u>	<u>pCi/L</u> <u>4-10</u>	<u>pCi/L</u> <u>10-20</u>	<u>pCi/L</u> <u>20-50</u>	<u>pCi/L</u> <u>50-100</u>	<u>pCi/L</u> <u>>100</u>
54 (67.50%)	15 (18.75%)	5 (6.25%)	3 (3.75%)	3 (3.75%)	0 (0.00%)
<hr/>					
Federal EPA Radon Zone for LACKAWANNA County: 1					
Note: Zone 1 indoor average level > 4 pCi/L.					
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.					
: Zone 3 indoor average level < 2 pCi/L.					

Site Information Report

RADON

State Database: PA Radon

Radon Test Results

Zipcode	Num Tests	Min pCi/L	Max pCi/L	Avg pCi/L
18447	375	0.1	99.2	4.8

Target Site Summary Report

Target Property: PA ROUTE 347
SCOTT TOWNSHIP, PA 18447

JOB: 27058

TOTAL: 1 GEOCODED: 1 NON GEOCODED: 0

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
--------	------------------------	-----------	---------	----------	----------	----------

No sites found for target address

Sites Summary Report

Target Property: PA ROUTE 347
SCOTT TOWNSHIP, PA 18447

JOB: 27058

TOTAL: 1 GEOCODED: 1 NON GEOCODED: 0

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
1	UST --Temporarily Out of Use	LEWIS BROS	RR 347 OLYPHANT, PA 18447	0.00 NNW	+ 0	1

Site Detail Report

Target Property: PA ROUTE 347
SCOTT TOWNSHIP, PA 18447

JOB: 27058

UST

EDR ID: U001104163 **DIST/DIR:** 0.004 NNW **ELEVATION:** 1513 **MAP ID:** 1

NAME: LEWIS BROS

Rev: 11/01/2012

ADDRESS: RR 347
OLYPHANT, PA 18447
LACKAWANNA

ID/Status: Temporarily Out of Use

SOURCE: PA Department of Environmental Protection

UST:

Region: EP NE Rgnl Off Wilkes-Barre

Site ID: 576554

Other Id: 35-10233

2nd Facility Addr: Not reported

Municipality Name: Scott

Client Id Number: 189608

Mailing Name: LEWIS BROS

Mailing Address: RR 2 BOX 57

Mailing Address 2: Not reported

Mailing City,St,Zip: OLYPHANT, PA 18447

Registration Expiration Date: 04/04/2013

Tank Seq No: 003

Tank Code: UST

Date Installed: 05/01/1990

Capacity: 6000

Substance: Gasoline

Tank Status: Temporarily Out of Use

Inspection Code: FOI

Tank Last Dt Inspected: 07/12/2002

Tank Seq No: 004

Tank Code: UST

Date Installed: 05/01/1990

Capacity: 10000

Substance: Gasoline

Tank Status: Temporarily Out of Use

Inspection Code: FOI

Tank Last Dt Inspected: 07/12/2002

Database Descriptions

NPL: NPL National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Delisted: DELISTED NPL The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. DELISTED NPL - National Priority List Deletions

CERCLIS: CERCLIS CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Information System

NFRAP: CERCLIS-NFRAP Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site. CERCLIS-NFRAP - CERCLIS No Further Remedial Action Planned

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

RCRA TSD: RCRA-TSDF RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste. RCRA-TSDF - RCRA - Treatment, Storage and Disposal

RCRA GEN: RCRA-LQG RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. RCRA-LQG - RCRA - Large Quantity Generators RCRA-SQG - RCRA - Small Quantity Generators. RCRA-CESQG - RCRA - Conditionally Exempt Small Quantity Generators.

Federal IC / EC: US ENG CONTROLS A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROL - Sites with Institutional Controls.

ERNS: ERNS Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. ERNS - Emergency Response Notification System

Database Descriptions

State/Tribal NPL: SHWS The Hazardous Sites Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority List, Interim Response Completed sites, and Sites Being Studied or Response Being Planned. SHWS - Hazardous Sites Cleanup Act Site List HSCA - HSCA Remedial Sites Listing.

State/Tribal SWL: SWF/LF The listing includes Municipal Waste Landfills, Construction/Demolition Waste Landfills and Waste-to-Energy Facilities. SWF/LF - Operating Facilities

State/Tribal LTANKS: LUST Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. LUST - Storage Tank Release Sites LAST - Storage Tank Release Sites. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R4 - Leaking Underground Storage Tanks on Indian Land.

State/Tribal Tanks: UST Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program. UST - Listing of Pennsylvania Regulated Underground Storage Tanks AST - Listing of Pennsylvania Regulated Aboveground Storage Tanks. INDIAN UST R4 - Underground Storage Tanks on Indian Land. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R1 - Underground Storage Tanks on Indian Land. INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian Land. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R9 - Underground Storage Tanks on Indian Land.

State/Tribal IC / EC: ENG CONTROLS Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. ENG CONTROLS - Engineering Controls Site Listing INST CONTROL - Institutional Controls Site Listing.

ST/Tribal Brownfields: BROWNFIELDS Brownfields are generally defined as abandoned or underused industrial or commercial properties where redevelopment is complicated by actual or perceived environmental contamination. Brownfields vary in size, location, age and past use. They can range from a small, abandoned corner gas station to a large, multi-acre former manufacturing plant that has been closed for years. BROWNFIELDS - Brownfields Sites

US Brownfields: US BROWNFIELDS Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs. US BROWNFIELDS - A Listing of Brownfields Sites

Other Haz Sites: US CDL A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. US CDL - Clandestine Drug Labs

Database Descriptions

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System SPILLS - State spills.

Other: RCRA NonGen / NLR RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste. RCRA NonGen / NLR - RCRA - Non Generators TRIS - Toxic Chemical Release Inventory System. TSCA - Toxic Substances Control Act. FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). SSTS - Section 7 Tracking Systems. ICIS - Integrated Compliance Information System. PADS - PCB Activity Database System. MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. FINDS - Facility Index System/Facility Registry System. RAATS - RCRA Administrative Action Tracking System. BRS - Biennial Reporting System. INDIAN RESERV - Indian Reservations. US AIRS MINOR - Air Facility System Data. FEDLAND - Federal and Indian Lands. MINES - Abandoned Mine Land Inventory. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). PRP - Potentially Responsible Parties.

Database Sources

NPL: EPA

Updated Quarterly

NPL Delisted: EPA

Updated Quarterly

CERCLIS: EPA

Updated Quarterly

NFRAP: EPA

Updated Quarterly

RCRA COR ACT: EPA

Updated Quarterly

RCRA TSD: Environmental Protection Agency

Updated Quarterly

RCRA GEN: Environmental Protection Agency

Updated Quarterly

Federal IC / EC: Environmental Protection Agency

Varies

ERNS: National Response Center, United States Coast Guard

Updated Annually

State/Tribal NPL: Department Environmental Protection

Updated Semi-Annually

State/Tribal SWL: Department of Environmental Protection

Updated Semi-Annually

State/Tribal LTANKS: Department of Environmental Protection

Updated Semi-Annually

State/Tribal Tanks: Department of Environmental Protection

Varies

Database Sources

State/Tribal IC / EC: Department of Environmental Protection

Varies

ST/Tribal Brownfields: Department of Environmental Protection

Varies

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other Haz Sites: Drug Enforcement Administration

Updated Quarterly

Spills: U.S. Department of Transportation

Updated Annually

Other: Environmental Protection Agency

Varies

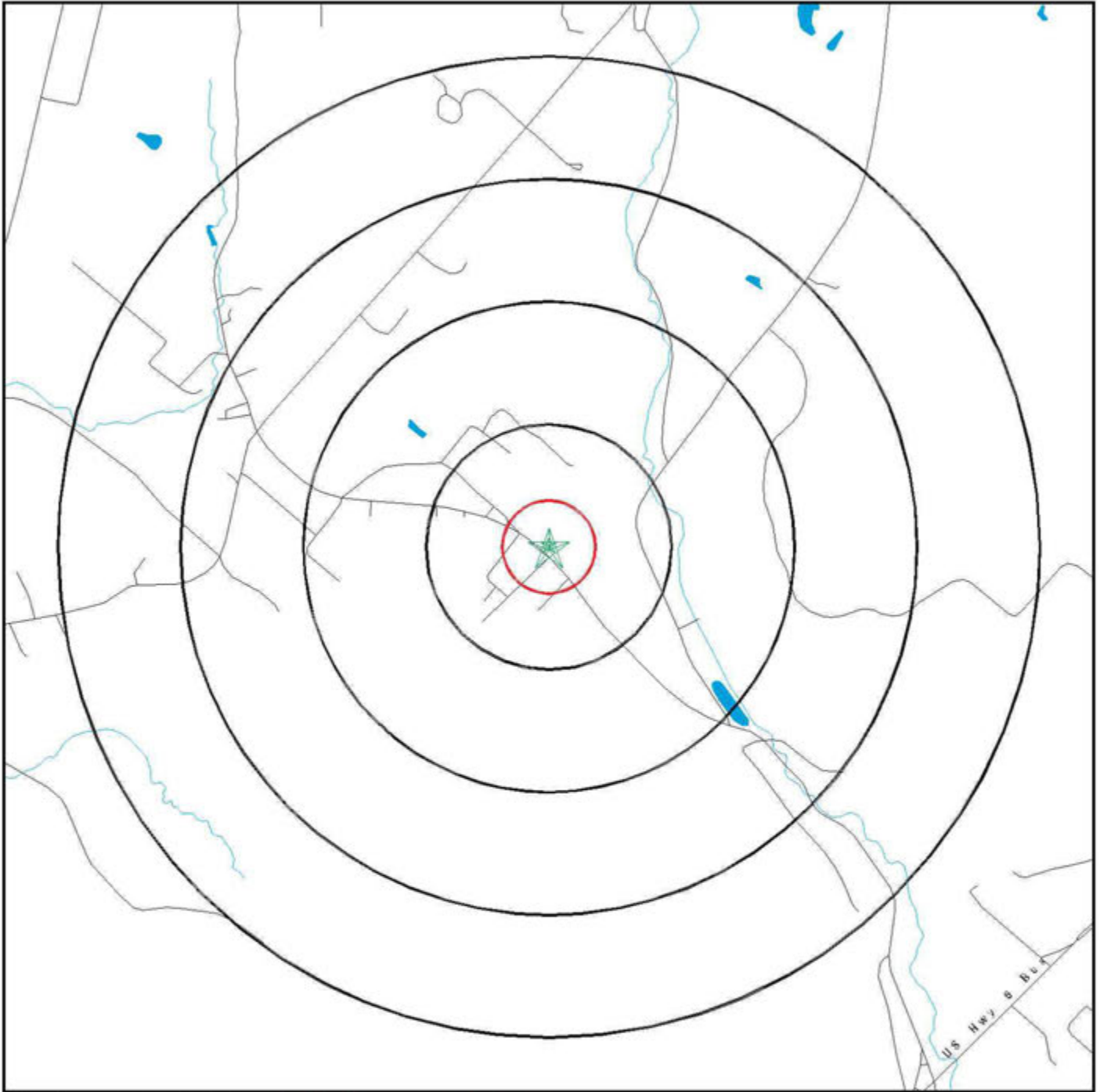
Street Name Report for Streets within .25 Miles of Target Property

Target Property: PA ROUTE 347
SCOTT TOWNSHIP, PA 18447

JOB: 27058

Street Name	Dist/Dir	Street Name	Dist/Dir
Doris St	0.18 WNW		
Govan Rd	0.07 WNW		
Green Grove Rd	0.18 ENE		
Hermel St	0.07 WNW		
Hilltop Dr	0.02 South		
Saslo Ln	0.24 WNW		
Skierski Ln	0.08 SSE		
State Hwy 347	0.01 SW		
Sylvan Acres Ln	0.21 NNW		
T530	0.13 SW		

PA ROUTE 347 SCOTT TOWNSHIP, PA 18447



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

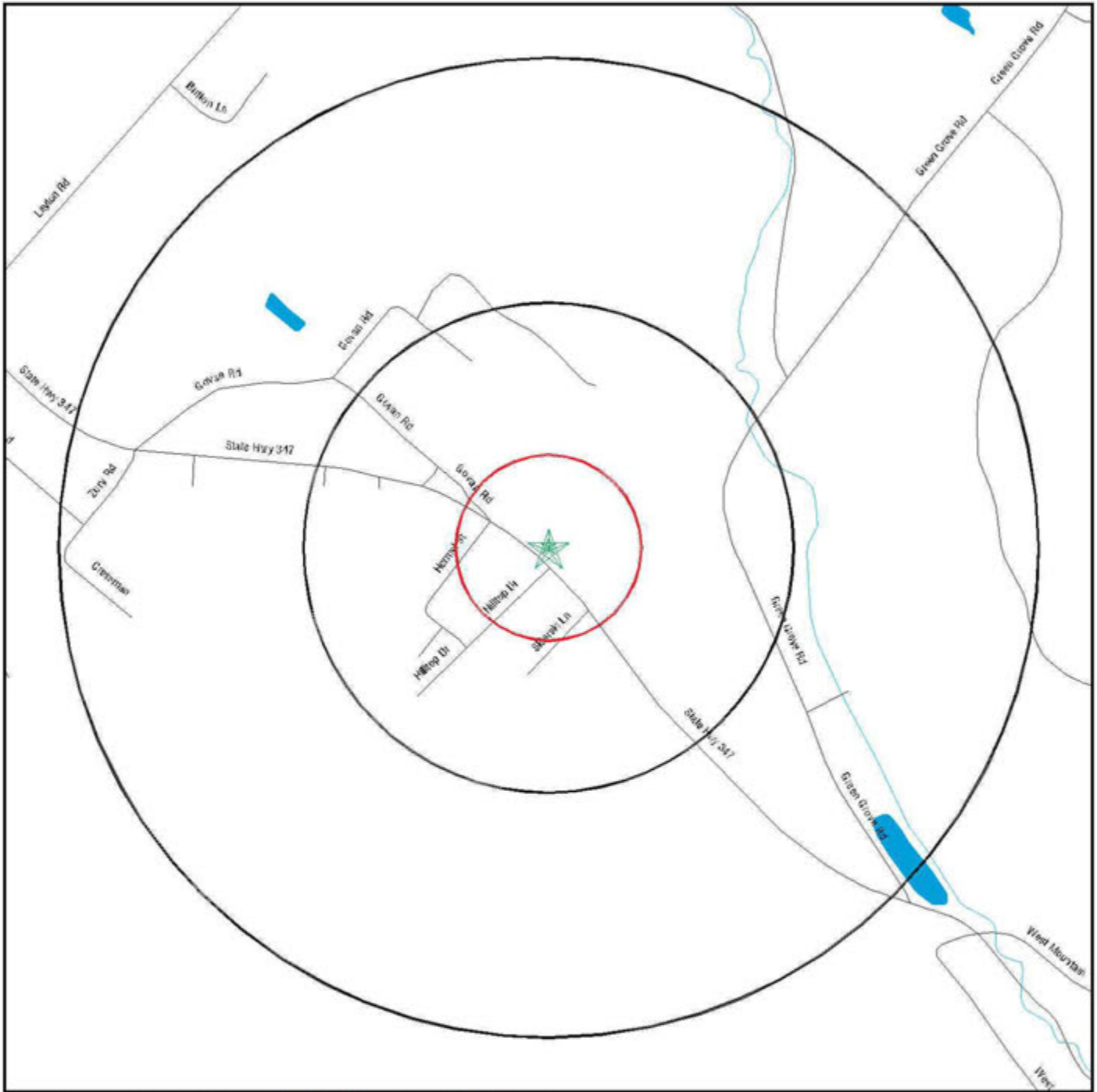
★ Target Property (Latitude: 41.4991 Longitude: 75.6287)

▲ Identified Sites

Indian Reservations BIA

☒ National Priority List Sites

PA ROUTE 347 SCOTT TOWNSHIP, PA 18447



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

-  Target Property (Latitude: 41.4991 Longitude: 75.6287)
-  Identified Sites
-  National Priority List Sites
-  Indian Reservations BIA

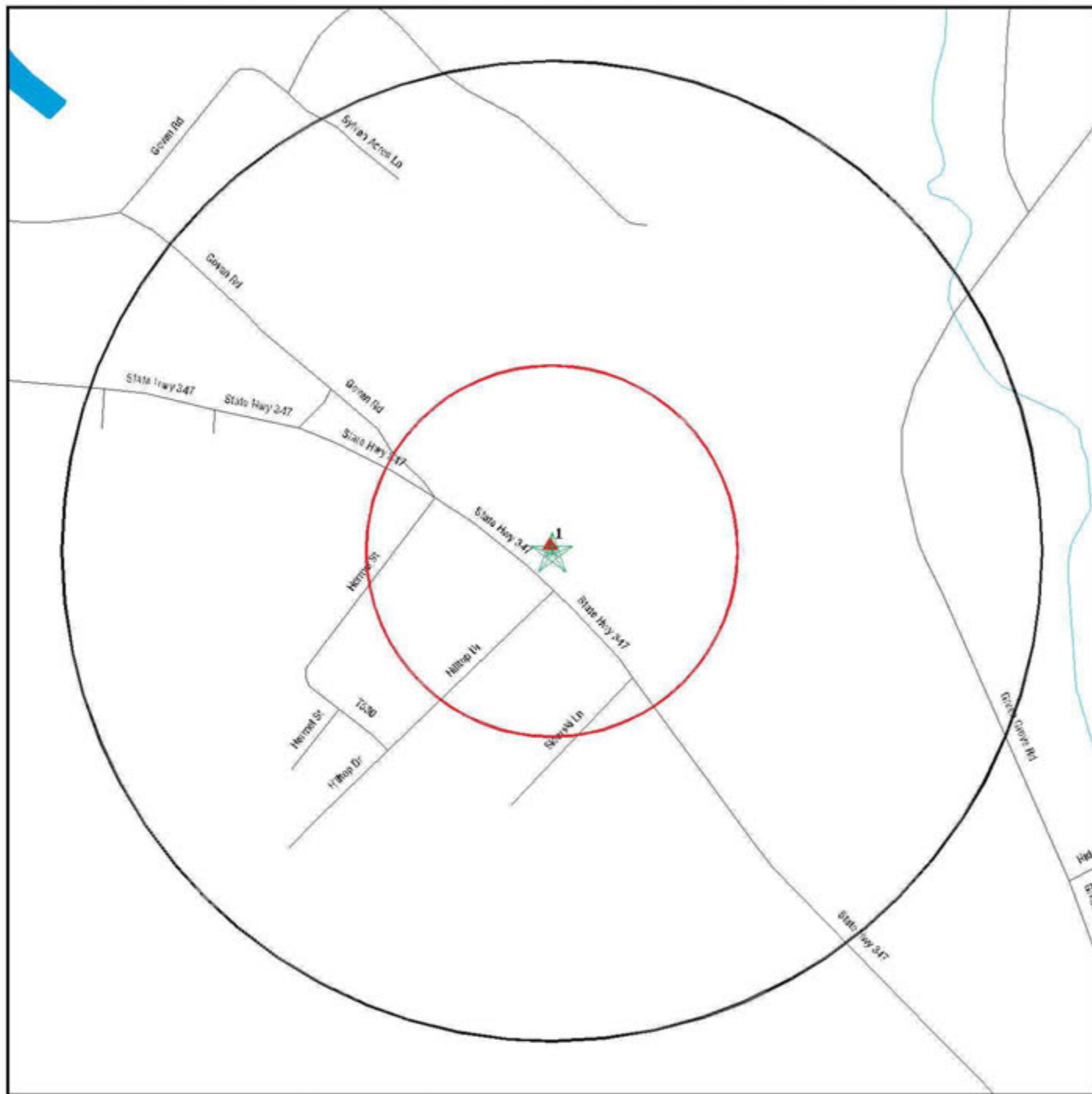
Environmental FirstSearch

0.25 Mile Radius

ASTM MAP: RC-RAGEN, ERNS, UST, FED IC/EC, METH LABS



PA ROUTE 347 SCOTT TOWNSHIP, PA 18447



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

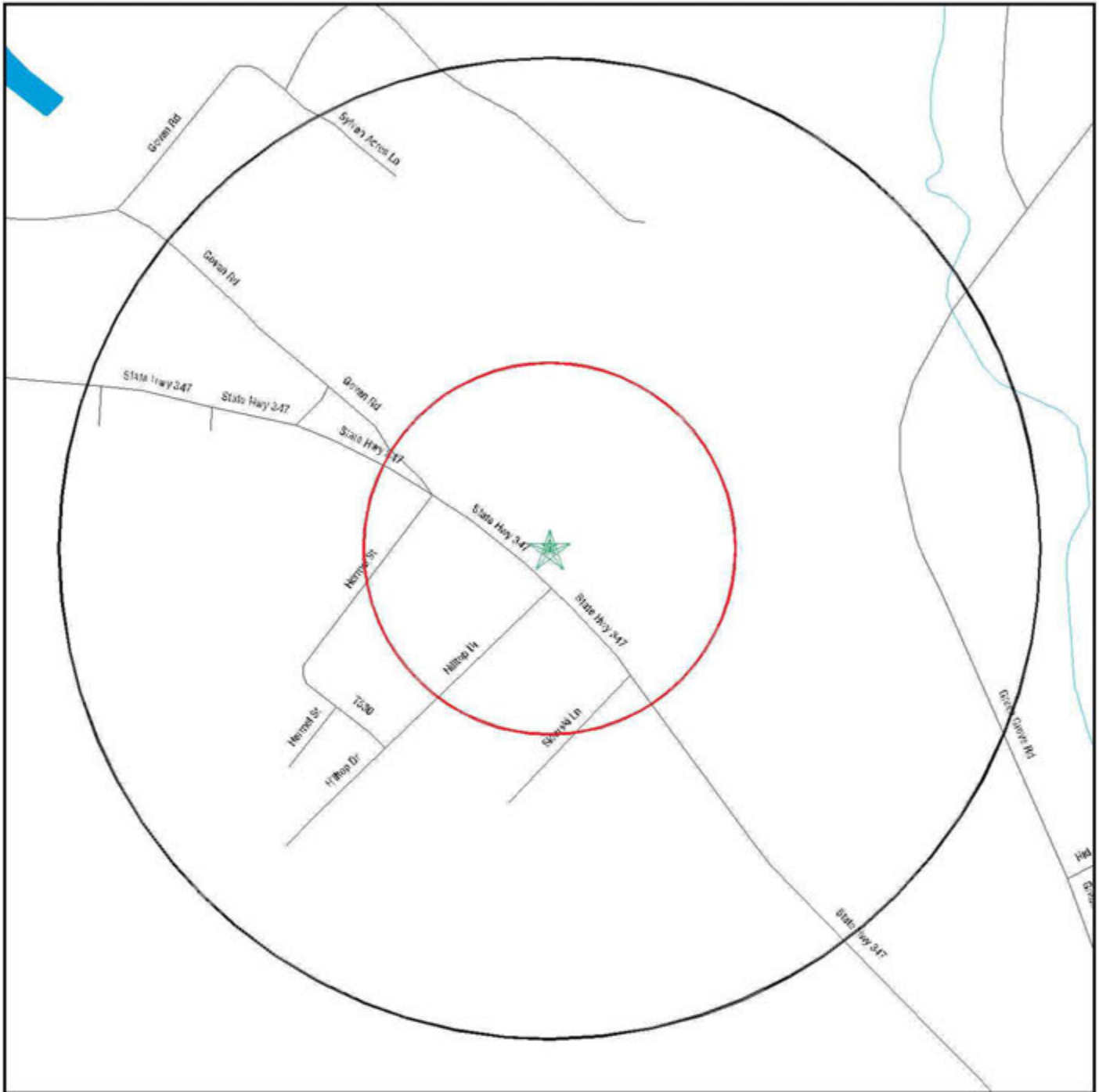
-  Target Property (Latitude: 41.4991 Longitude: 75.6287)
-  Identified Sites
-  National Priority List Sites
-  Indian Reservations BIA

Environmental FirstSearch

0.25 Mile Radius
Non ASTM Map, Spills, FINDS



PA ROUTE 347 SCOTT TOWNSHIP, PA 18447



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

-  Target Property (Latitude: 41.4991 Longitude: 75.6287)
-  Identified Sites
-  National Priority List Sites
-  Indian Reservations BIA
-  Sensitive Receptors

APPENDIX K

Test Boring Logs

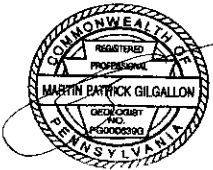
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: February 28, 2008
Client: Lewis Brothers	Date Finished: February 28, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-1
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	9:00	9:20	12.0'		

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.1'	0.0' - 4.0'	Wet 1.0' - 2.0'
---	0'-4'	-----	PID: 0.0 ppm at	Asphalt, change to mixed	Dry Below 2.0'
1---	(09:02)	-----	< 3.0'	brown silty sandy soil with gray	Odor 3.0' - 4.0'
---		-----	598 ppm at 3.8'	sandstone fragments	No Visual
2---		-----			Sample ID #:
---		-----			058-0228-TB1A
3---		-----			Sample Depth:
---		-----			3.0' - 5.5'
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Sample Time: 0910
---	4'-8'	-----	PID: 2,281 ppm	Brown silty sandy clay with	Damp
5---	(09:08)	-----	at 5.5'	gray sandstone fragments	Strong Odor
---		-----	1,824 ppm at 6.5'		Discolored
6---		-----	893 ppm at 7.5'		
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Strong Odor
---	8'-12'	-----	PID: 1,153 ppm	Brown silty sandy clay with	Damp
9---	(09:20)	-----	at 9.0'	gray sandstone fragments	No Visual
---		-----	1,614 ppm at 10.5'		Sample ID #:
10---		-----	287 ppm at 11.5'		058-0228-TB1B
---		-----			Sample Depth:
11---		-----			10.0' - 12.0'
---		-----			Sample Time: 0920
12---		-----		Refusal at 12.0'	
---		-----			
13---		-----			
---		-----			
14---		-----			
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

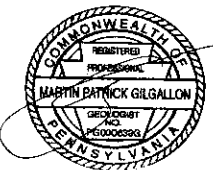
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: February 28, 2008
Client: Lewis Brothers	Date Finished: February 28, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-2
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	9:37	10:25	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 4.0'	0.0' - 4.0'	Dry
---	0'-4'	-----	PID: 1,117 ppm	Asphalt, change to mixed	Strong Odor > 2.0'
1---	(09:43)	-----	at 2.5'	brown silt and sand to 2.0',	No Visual
---		-----	956 ppm at 4.0'	change to brown silty sandy	
2---		-----		clay with gray sandstone	
---		-----		fragments	
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry to Damp
---	4'-8'	-----	PID: 2,393 ppm	Brown silty sandy clay with	Strong Odor
5---	(09:47)	-----	at 5.5'	gray sandstone fragments and	No Visual
---		-----	2,679 ppm	sub-rounded pebbles	Sample ID #:
6---		-----	3,581 ppm at 7.5'		058-0228-TB2
---		-----			Sample Depth:
7---		-----			6.5' - 8.0'
---		-----			Sample Time: 0947
8---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Dry to Damp
---	8'-12'	-----	PID: 2,983 ppm	Brown silty sandy clay with	Strong Odor
9---	(09:57)	-----	at 8.5'	gray sandstone fragments,	Gas visible in
---		-----	925 ppm at 10.0'	subrounded pebbles	sandstone fragments
10---		-----	858 ppm at 11.5'		8.5' - 9.0'
---		-----			
11---		-----			
---		-----			
12---	SS-4	-----	Rec: 4.0'	12.0' - 16.0'	Wet 14.0' - 15.0'
---	12'-16'	-----	PID: 3,017 ppm	Brown silty sandy clay and	Strong Odor
13---	(10:11)	-----	at 13.0'	gray sandstone fragments and	Slight sheen on water
---		-----	3,069 ppm at 14.0'	sub-rounded pebbles	
14---		-----	3,747 ppm at 15.5'		
---		-----			
15---		-----			
---		-----			
16---	SS-5	-----	Rec: 3.1'	16.0' - 20.0'	Wet
---	16'-20'	-----	PID: N/A	Brown silty sandy clay with	Odor Present
17---	(10:25)	-----		abundant sandstone fragments	Sheen in Water
---		-----		and sub-rounded pebbles	
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: February 28, 2008
Client: Lewis Brothers	Date Finished: February 28, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-3
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	10:38	11:08	16.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 4.0'	0.0' - 4.0'	Dry
---	0'-4'	-----	PID: 0.0 ppm	Asphalt, change to mixed	Slight Odor > 3.0'
1---	(10:43)	-----		brown silty sandy soils with	No Visual
---		-----		sandstone fragments, change	
2---		-----		to brown silty sandy clay with	
---		-----		gray sandstone fragments at	
3---		-----		~ 2.0' and sub-rounded	
---		-----		pebbles	
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry
---	4'-8'	-----	PID: 0.0 ppm	Brown silty sandy clay with	No Visual
5---	(10:50)	-----	at 5.0'	gray sandstone fragments	
---		-----	51.1 ppm at 6.0'	and sub-rounded pebbles	
6---		-----	210 ppm at 7.5'		
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 3.8'	8.0' - 12.0'	Damp 11.0' - 12.0'
---	8'-12'	-----	PID: 653 ppm	Brown silty sandy clay with	Strong Odor
9---	(10:58)	-----	at 8.5'	sandstone fragments and	Gas Visible 11.0' - 12.0'
---		-----	1,405 ppm at 9.5'	sub-rounded pebbles	Sample ID #:
10---		-----	803 ppm at 10.5'		058-0228-TB3A
---		-----	3,355 ppm at 11.5'		Sample Depth:
11---		-----			11.0' - 12.0'
---		-----			Sample Time: 1100
12---	SS-4	-----	Rec: 4.0'	12.0' - 16.0'	Wet ~ 15.0'
---	12'-16'	-----	PID: 1,157 ppm	Brown silty sandy clay with	Strong Odor
13---	(11:08)	-----	at 13.0'	sandstone fragments, change	No Visual
---		-----	530 ppm at 15.0'	to brown silty sandy clay with	
14---		-----		sub-rounded pebbles	
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

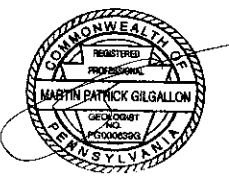
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: February 28, 2008
Client: Lewis Brothers	Date Finished: February 28, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-4
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	11:25	11:35	8.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 2.8'	0.0' - 4.0'	Damp
---	0'-4'	-----	PID: 302 ppm	Asphalt, change to mixed silty	Strong Odor
1---	(11:28)	-----	at 2.0'	sandy soil with abundant	Gas present in soils
---		-----	3,611 ppm at 3.5'	rock fragments, change to	at 3.5' - 4.0'
2---		-----		brown silty sandy clay with	Sample ID #:
---		-----		sandstone fragments and	058-0228-TB4A
3---		-----		sub-rounded pebbles	Sample Depth:
---		-----			2.0' - 3.5'
4---	SS-2	-----	Rec: 3.3'	4.0' - 8.0'	Sample Time: 1135
---	4'-8'	-----	PID: N/A	Brown silty sandy clay with	Wet 4.0' - 6.0'
5---	(11:35)	-----		sandstone fragments and	Strong Odor
---		-----		sub-rounded pebbles	Sheen on Water
6---		-----			
---		-----			
7---		-----			Stopped Boring at
---		-----			8.0' to minimize the
8---		-----			potential vertical
---		-----			migration of
9---		-----			contamination
---		-----			
10---		-----			
---		-----			
11---		-----			
---		-----			
12---		-----			
---		-----			
13---		-----			
---		-----			
14---		-----			
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: February 28, 2008
Client: Lewis Brothers	Date Finished: February 28, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-5
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	11:50	12:16	9.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.7'	0.0' - 4.0'	Dry
---	0'-4'	-----	PID: 0.0 ppm	Asphalt, change to mixed silty	Strong Odor Present
1---	(11:57)	-----	at 2.0'	sandy soils with abundant	No Visual
---		-----	0.0 ppm at 3.5'	rock fragments to 2.0', change	
2---		-----		to brown silty sandy clay with	
---		-----		pebbles and cobbles	
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry
---	4'-8'	-----	PID: 73 ppm	Brown silty sandy clay with	Strong Odor Present
5---	(12:02)	-----	at 6.0'	pebbles and cobbles	No Visual
---		-----	203 ppm at 7.5'		
6---		-----			
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 2.0'	8.0' - 12.0'	Wet
---	8'-12'	-----	PID: 1,107 ppm	Brown silty sandy clay with	Strong Odor
9---	(12:16)	-----	at 8.5'	pebbles and cobbles	Discolored at ~ 8.5'
---		-----			
10---		-----		Refusal at 9.0'	No Sample Taken
---		-----			
11---		-----			
---		-----			
12---		-----			
---		-----			
13---		-----			
---		-----			
14---		-----			
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

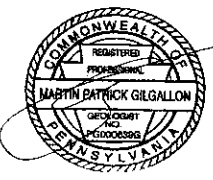
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: February 28, 2008
Client: Lewis Brothers	Date Finished: February 28, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-6
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	12:30	12:48	10.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 4.0'	0.0' - 4.0'	Dry
---	0'-4'	-----	PID: 0.0 ppm	Asphalt, change to mixed silty	Slight Odor
1---	(12:33)	-----		sandy soils with abundant	No Visual
---		-----		rock fragments, change to	
2---		-----		brown silty sandy clay with	
---		-----		sub-rounded pebbles and	
3---		-----		cobbles ~ 2.0'	
---		-----			
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry
---	4'-8'	-----	PID: 68.7 ppm	Brown silty sandy clay with	Strong Odor
5---	(12:40)	-----	at 5.0'	subrounded pebbles and	No Visual
---		-----	203 ppm at 6.0'	cobbles	Sample ID #:
6---		-----	1,996 ppm at 7.0'		058-0228-TB6A
---		-----	1,603 ppm at 7.8'		Sample Depth:
7---		-----			8.0' - 10.0'
---		-----			Sample Time: 1248
8---	SS-3	-----	Rec: 2.0'	8.0' - 12.0'	Dry
---	8'-12'	-----	PID: 3,417 ppm	Brown silty sandy clay with	Strong Odor
9---	(12:48)	-----	at 9.0'	subrounded pebbles and	No Visual
---		-----		cobbles	
10---		-----		Refusal at 10.0'	
---		-----			
11---		-----			
---		-----			
12---		-----			
---		-----			
13---		-----			
---		-----			
14---		-----			
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			



Log Approved By:

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: February 28, 2008
Client: Lewis Brothers	Date Finished: February 28, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-7
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	12:55	13:30	16.0'		

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 4.0'	0.0' - 4.0'	Damp 1.5' - 3.0'
---	0'-4'	-----	PID: 62.4 ppm	Asphalt, change to mixed silty	Odor Present
1---	(13:02)	-----	at 2.5'	sandy fill with abundant rock	No Visual
---		-----	0.0 ppm at 3.5'	fragments, change to brown	
2---		-----		silty sandy clay with	
---		-----		sub-rounded pebbles and	
3---		-----		cobbles ~ 3.0'	
---		-----			
4---	SS-2	-----	Rec: 3.8'	4.0' - 8.0'	Dry
---	4'-8'	-----	PID: 1,183 ppm	Brown silty sandy clay with	Odor Present
5---	(13:13)	-----	at 5.5'	sub-rounded pebbles and	No Visual
---		-----	3,026 ppm at 7.0'	cobbles	
6---		-----	2,281 ppm at 7.8'		
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Dry to Damp
---	8'-12'	-----	PID: 2,860 ppm	Brown silty sandy clay with	Odor Present
9---	(13:19)	-----	at 9.0'	sub-rounded pebbles and	No Visual
---		-----	2,376 ppm	cobbles	Sample ID #:
10---		-----	at 10.0'		058-0228-TB7A
---		-----	2,081 ppm		Sample Depth:
11---		-----	at 11.0'		12.5' - 13.5'
---		-----			Sample Time: 1330
12---	SS-4	-----	Rec: 4.0'	12.0' - 16.0'	Wet ~ 14.0'
---	12'-16'	-----	PID: 2,897 ppm	Brown silty sandy clay with	Odor Present
13---	(13:30)	-----	at 13.0'	abundant sub-rounded	Discolored 14.0' - 16.0'
---		-----	898 ppm at 14.0'	pebbles and cobbles	
14---		-----			
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

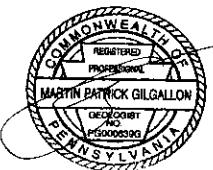
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: February 28, 2008
Client: Lewis Brothers	Date Finished: February 28, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-8
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	13:55	14:11	10.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.7'	0.0' - 4.0'	Dry
---	0'-4'	-----	PID: 0.0 ppm	Gravel and mixed silty sandy soil to 3.0', change to brown silty sandy clay with abundant sub-rounded pebbles	Slight Odor > 3.0'
1---	(13:58)	-----			No Visual
---		-----			
2---		-----			
---		-----			
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry
---	4'-8'	-----	PID: 1,802 ppm	Brown silty sandy clay with abundant sub-rounded pebbles	Odor Present
5---	(14:04)	-----	at 5.0'		No Visual
---		-----	1,646 ppm at 6.0'		
6---		-----	1,797 ppm at 7.0'		
---		-----	2,791 ppm at 7.8'		
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 2.0'	8.0' - 12.0'	Dry
---	8'-12'	-----	PID: 1,826 ppm	Brown silty sandy clay with abundant sub-rounded pebbles and cobbles	Odor Present
9---	(14:11)	-----	at 9.0'		No Visual
---		-----			Sample ID #:
10---		-----		Refusal at 10.0'	058-0228-TB8A
---		-----			Sample Depth:
11---		-----			8.0' - 9.0'
---		-----			Sample Time: 1411
12---		-----			
---		-----			
13---		-----			
---		-----			
14---		-----			
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			



Log Approved By:

Pennsylvania Tectonics, Inc.

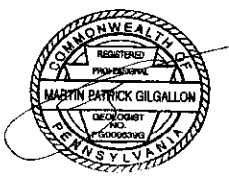
TEST BORING LOG

Project: Phase II: Lewis Brothers
 Client: Lewis Brothers
 Purpose: Soil Sampling Program
 Contractor: GEA, Inc.
 Driller: Jim Strickland
 Inspector: Dean Cruciani

Date Started: February 28, 2008
 Date Finished: February 28, 2008
 Boring Number: TB-9
 Job Number: 27058
 Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	14:35	15:13	16.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.8'	0.0' - 4.0'	Wet
---	0'-4'	-----	PID: 0.0 ppm	Gravel and mixed silty sandy soils	Odor Present
1---	(14:40)	-----			No Visual
---		-----			
2---		-----			
---		-----			
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Wet 4.0' - 5.0'
---	4'-8'	-----	PID: 113 ppm	Mixed fill materials to 5.0',	Odor Present
5---	(14:50)	-----	at 6.5'	change to brown silty sandy	Fill Materials Discolored
---		-----	395 ppm at 7.5'	clay with abundant	
6---		-----		sub-rounded pebbles and	
---		-----		gravel	
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Wet 8.5' - 9.0'
---	8'-12'	-----	PID: 83 ppm	Brown silty sandy clay with	Odor Present
9---	(15:02)	-----	at 9.0'	abundant sub-rounded	No Visual
---		-----	1,046 ppm	pebbles and cobbles	Sample ID #:
10---		-----	at 10.0'		058-0228-TB9A
---		-----	0.0 ppm at 11.5'		Sample Depth:
11---		-----			9.5' - 10.5'
---		-----			Sample Time: 1513
12---	SS-4	-----	Rec: 4.0'	12.0' - 16.0'	Dry
---	12'-16'	-----	PID: 880 ppm	Brown silty sandy clay with	Slight Odor
13---	(15:13)	-----	at 14.0'	abundant sub-rounded	No Visual
---		-----	0.0 ppm at 15.5'	pebbles and cobbles	Sample ID #:
14---		-----			058-0228-TB9B
---		-----			Sample Depth:
15---		-----			15.0' - 16.0'
---		-----			Sample Time: 1520
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
 Martin Gilgallon, P.G.

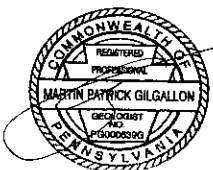
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: February 28, 2008
Client: Lewis Brothers	Date Finished: February 28, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-10
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	15:30	16:15	16.0'		

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.6'	0.0' - 4.0'	Wet 2.0' - 3.0'
---	0'-4'	-----	PID: 0.0 ppm	Gravel and mixed fill materials,	Slight Odor
1---	(15:36)	-----		silty sandy soil with rock	No Visual
---		-----		fragments, change to brown	
2---		-----		silty sandy clay with	
---		-----		sub-rounded pebbles and	
3---		-----		cobbles ~ 3.0'	
---		-----			
4---	SS-2	-----	Rec: 3.8'	4.0' - 8.0'	Dry
---	4'-8'	-----	PID: 0.0 ppm	Brown silty sandy clay with	Slight Odor
5---	(15:40)	-----	at 6.0'	pebbles and cobbles	No Visual
---		-----	0.0 ppm at 7.0'		
6---		-----	0.0 ppm at 8.0'		
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 3.8'	8.0' - 12.0'	Dry
---	8'-12'	-----	PID: 1,315 ppm	Brown silty sandy clay with	Slight Odor
9---	(15:43)	-----	at 9.0'	pebbles and cobbles	No Visual
---		-----	1,219 ppm		
10---		-----	at 10.0'		
---		-----	729 ppm at 11.5'		
11---		-----			
---		-----			
12---	SS-4	-----	Rec: 3.1'	12.0' - 16.0'	Moist ~ 15.0'
---	12'-16'	-----	PID: 41.7 ppm	Brown silty sandy clay with	Slight Odor
13---	(16:15)	-----	at 13.0'	pebbles and cobbles	No Visual
---		-----	0.0 ppm at > 13.0'		
14---		-----			No Sample Taken
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			



Log Approved By:

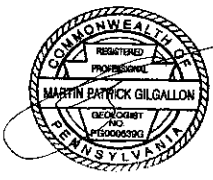
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-11
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	8:40	9:22	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visua . Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.3'	0.0' - 4.0'	Wet 2.0' - 3.5'
---	0'-4'	-----	PID: 0.0 ppm	Gravel and mixed fill (sandy	No Odor
1---	(08:44)	-----		soils, ash, coal fines), change	No Visual
---		-----		to mixed brown silty sandy	
2---		-----		clay with sandstone (~ 2")	
---		-----		and red shale fragments	
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Wet 4.0' - 5.0'
---	4'-8'	-----	PID: 0.0 ppm	Mixed brown silty sandy clay	Slight Odor
5---	(08:51)	-----		with sandstone and red	No Visual
---		-----		shale fragments, change to	
6---		-----		brown to reddish brown silty	
---		-----		sandy clay with sandstone	
7---		-----		and red shale fragments	
---		-----			
8---	SS-3	-----	Rec: 3.6'	8.0' - 12.0'	Dry to Damp
---	8'-12'	-----	PID: 1,169 ppm	Brown to reddish brown silty	Slight Odor
9---	(08:59)	-----	at 10.5'	sandy clay with sub-rounded	No Visual
---		-----	1,052 ppm	pebbles and cobbles and	
10---		-----	at 11.5'	red shale fragments	
---		-----			
11---		-----			
---		-----			
12---	SS-4	-----	Rec: 2.9'	12.0' - 16.0'	Dry to Damp
---	12'-16'	-----	PID: 69.7 ppm	Brown to reddish brown silty	Slight Odor
13---	(09:07)	-----	at 13.0'	sandy clay with sub-rounded	No Visual
---		-----	0.0 ppm at 15.0'	pebbles and cobbles	
14---		-----			
---		-----			
15---		-----			
---		-----			
16---	SS-5	-----	Rec: 3.1'	16.0' - 20.0'	Wet
---	16'-20'	-----	PID: N/A	Brown silty sandy clay with	Strong Odor
17---	(09:22)	-----		abundant pebbles and	No Visual
---		-----		cobbles	
18---		-----			No Sample Taken
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

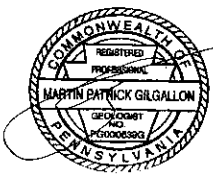
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-12
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	9:30	10:15	20.0'		

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.9'	0.0' - 4.0'	Dry
---	0'-4'	-----	PID: 0.0 ppm	Grass, change to brown silty	No Odor
1---	(09:33)	-----		sandy clay with red shale and	No Visual
---		-----		sandstone fragments;	
2---		-----		sub-rounded pebbles	
---		-----			
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry to Damp
---	4'-8'	-----	PID: 0.0 ppm	Brown to reddish brown silty	No Odor
5---	(09:37)	-----		sandy clay with sub-rounded	No Visual
---		-----		pebbles (sandstone and red	
6---		-----		shale)	
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Dry to Damp
---	8'-12'	-----	PID: 0.0 ppm	Brown to reddish brown silty	No Odor
9---	(09:51)	-----		sandy clay with sub-rounded	No Visual
---		-----		pebbles (sandstone and red	
10---		-----		shale)	
---		-----			
11---		-----			
---		-----			
12---	SS-4	-----	Rec: 3.7'	12.0' - 16.0'	Dry to Damp
---	12'-16'	-----	PID: 0.0 ppm	Brown to reddish brown silty	No Odor
13---	(10:04)	-----		sandy clay with sub-rounded	No Visual
---		-----		pebbles (sandstone and red	
14---		-----		shale)	
---		-----			
15---		-----			
---		-----			
16---	SS-5	-----	Rec: 4.0'	16.0' - 20.0'	Wet at 18.0'
---	16'-20'	-----	PID: 0.0 ppm	Brown silty sandy clay with	No Odor
17---	(10:15)	-----		sub-rounded pebbles	No Visual
---		-----		(sandstone and red shale)	Sample ID #:
18---		-----			058-0303-TB12
---		-----			Sample Depth:
19---		-----			17.0' - 18.0'
---		-----			Sample Time: 1015
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

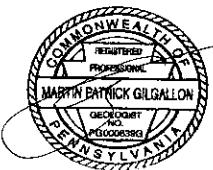
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-13
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	10:31	11:08	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.2'	0.0' - 4.0'	Wet 1.0' - 2.0'
1---	0'-4'	-----	PID: 0.0 ppm	Grass, change to brown silty sandy clay with sandstone and red shale fragments	No Odor
---	(10:36)	-----			No Visual
2---		-----			
3---		-----			
4---	SS-2	-----	Rec: 3.4'	4.0' - 8.0'	Dry to Damp
---	4'-8'	-----	PID: 0.0 ppm	Brown silty sandy clay with sub-rounded pebbles	Odor Below 6.0'
5---	(10:44)	-----	at 5.0'	(sandstone and red shale)	No Visual
---		-----	1,592 ppm at 7.0'		Sample ID #:
6---		-----			058-0303-TB13A
---		-----			Sample Depth:
7---		-----			6.5' - 7.5'
---		-----			Sample Time: 1044
8---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Dry to Damp
---	8'-12'	-----	PID: 687 ppm	Brown silty sandy clay with sub-rounded pebbles	Odor Present
9---	(10:53)	-----	at 9.0'	(sandstone and red shale)	No Visual
---		-----	0.0 ppm at 11.0'		
10---		-----			
11---		-----			
12---	SS-4	-----	Rec: 4.0'	12.0' - 16.0'	Damp
---	12'-16'	-----	PID: 728 ppm	Brown silty sandy clay with sub-rounded pebbles	Odor Present
13---	(11:04)	-----	at 13.0'	(sandstone and red shale)	No Visual
---		-----	496 ppm at 15.5'		
14---		-----			
15---		-----			
16---	SS-5	-----	Rec: 3.8'	16.0' - 20.0'	Wet at 17.5'
---	16'-20'	-----	PID: 30.7 ppm	Brown silty sandy clay with sub-rounded pebbles	Odor Present
17---	(11:08)	-----	at 18.5'		No Visual
---		-----			Sample ID #:
18---		-----			058-0303-TB13B
---		-----			Sample Depth:
19---		-----			16.0' - 17.0'
---		-----			Sample Time: 1108



Log Approved By:
Martin Gilgallon, P.G.

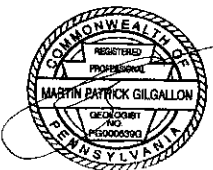
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-14
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	11:17	11:46	16.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.1'	0.0' - 4.0'	Wet 0.5' - 3.0'
---	0'-4'	-----	PID: 0.0 ppm	Grass, change to brown silty	No Odor
1---	(11:19)	-----		sandy clay with sub-rounded	No Visual
---		-----		pebbles	
2---		-----			
---		-----			
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 3.9'	4.0' - 8.0'	Dry to Damp
---	4'-8'	-----	PID: 0.0 ppm	Brown silty sandy clay with	Odor Present
5---	(11:23)	-----	at 5.0'	sub-rounded pebbles	No Visual
---		-----	0.0 ppm at 6.5'	(sandstone and red shale)	
6---		-----	99.1 ppm at 7.5'		
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec:	8.0' - 12.0'	Dry to Damp
---	8'-12'	-----	PID: 2,497 ppm	Brown silty sandy clay with	Odor Present
9---	(11:29)	-----	at 10.0'	sub-rounded pebbles	No Visual
---		-----			Sample ID #:
10---		-----			058-0303-TB14A
---		-----			Sample Depth:
11---		-----			9.5' - 11.0'
---		-----			Sample Time: 1129
12---	SS-4	-----	Rec: 4.0'	12.0' - 16.0'	Wet
---	12'-16'	-----	PID: N/A	Brown silty sandy clay with	Odor Present
13---	(11:46)	-----		sub-rounded pebbles;	Sheen on Water
---		-----		sandstone cobbles at 14.0'	Set Screen in TB-14
14---		-----			SWL - 3.54' bgs
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

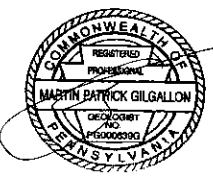
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-15
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	12:21	13:00	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.1'	0.0' - 4.0'	Dry to Damp
---	0'-4'	-----	PID: 0.0 ppm	Grass, change to brown silty	No Odor
1---	(12:28)	-----		sandy clay with sub-rounded	No Visual
---		-----		pebbles (sandstone and	
2---		-----		red shale)	
---		-----			
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 3.6'	4.0' - 8.0'	Dry to Damp
---	4'-8'	-----	PID: 0.0 ppm	Brown silty sandy clay with	Slight Odor < 7.0'
5---	(12:32)	-----		sub-rounded pebbles	No Visual
---		-----			
6---		-----			
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 3.5'	8.0' - 12.0'	Dry to Damp
---	8'-12'	-----	PID: 0.0 ppm	Brown silty sandy clay with	Slight Odor
9---	(12:38)	-----		sub-rounded pebbles	No Visual
---		-----		(sandstone and red shale)	
10---		-----			
---		-----			
11---		-----			
---		-----			
12---	SS-4	-----	Rec: 2.9'	12.0' - 16.0'	Damp
---	12'-16'	-----	PID: 0.0 ppm	Brown silty sandy clay with	Slight Odor
13---	(12:49)	-----		sub-rounded pebbles	No Visual
---		-----			Sample ID #:
14---		-----			058-0303-TB15A
---		-----			Sample Depth:
15---		-----			15.0' - 16.0'
---		-----			Sample Time: 1300
16---	SS-5	-----	Rec: 3.1'	16.0' - 20.0'	Wet
---	16'-20'	-----	PID: 34.7 ppm	Brown silty sandy clay with	Strong Odor
17---	(13:00)	-----	at 19.0'	sub-rounded pebbles, change	Sheen in Water
---		-----		to brown sand with	
18---		-----		sub-rounded pebbles at 18.5'	
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-16
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	13:10	13:40	15.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.8'	0.0' - 4.0'	Wet 0.5' - 1.5'
1---	0'-4'	-----	PID: 0.0 ppm	Grass, change to brown silty sandy clay	Dry > 1.5'
2---	(13:14)	-----			Odor Present
3---		-----			No Visual
4---	SS-2	-----	Rec: 3.4'	4.0' - 8.0'	Dry to Damp
5---	4'-8'	-----	PID: 1,349 ppm	Brown silty sandy clay with	Odor Present
6---	(13:22)	-----	at 6.5'	sub-rounded pebbles	No Visual
7---		-----	638 ppm at 7.5'	(sandstone and red shale)	Sample ID #:
8---	SS-3	-----	Rec: 2.2'	8.0' - 12.0'	058-0303-TB16A
9---	8'-12'	-----	PID: 67.8 ppm	Brown silty sandy clay with	Sample Depth:
10---	(13:28)	-----	at 9.0'	sub-rounded pebbles	6.0' - 7.5'
11---		-----	27.2 ppm at 11.5'	(sandstone and red shale)	Sample Time: 1330
12---	SS-4	-----	Rec: 1.7'	12.0' - 16.0'	Damp
13---	12'-16'	-----	PID: 0.0 ppm	Brown silty sandy clay with	Slight Odor
14---	(13:40)	-----		sandstone and red shale	No Visual
15---		-----		pebbles; sandstone cobble	
16---		-----		in shoe at 15.0'	
17---		-----		Refusal at 15.0'	
18---		-----			
19---		-----			



Log Approved By:
Martin Gilgallon, P.G.

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-17
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	13:44	14:26	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 2.8'	0.0' - 4.0'	Dry to Damp
---	0'-4'	-----	PID: 0.0 ppm	Grass, change to brown silty	Odor Present
1---	(13:51)	-----		sandy clay with sub-rounded	No Visual
---		-----		pebbles	
2---		-----			
---		-----			
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 3.3'	4.0' - 8.0'	Dry to Damp
---	4'-8'	-----	PID: 0.0 ppm	Brown silty sandy clay with	Odor Present
5---	(13:56)	-----		sandstone and red shale	No Visual
---		-----		fragments	
6---		-----			
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Damp
---	8'-12'	-----	PID: 0.0 ppm	Brown silty sandy clay with	Odor Present
9---	(14:06)	-----		sandstone and red shale	No Visual
---		-----		pebbles	
10---		-----			
---		-----			
11---		-----			
---		-----			
12---	SS-4	-----	Rec: 2.1'	12.0' - 16.0'	Damp
---	12'-16'	-----	PID: 0.0 ppm	Brown silty sandy clay with	Strong Odor 16.0'
13---	(14:21)	-----	to 15.0'	sandstone and red shale	No Visual
---		-----	678 ppm at 15.8'	fragments	Sample ID #:
14---		-----			058-0303-TB17A
---		-----			Sample Depth:
15---		-----			15.0' - 16.0'
---		-----			Sample Time: 1426
16---	SS-5	-----	Rec: 2.1'	16.0' - 20.0'	Wet
---	16'-20'	-----	PID: N/A	Brown silty sandy clay with	Strong Odor
17---	(14:26)	-----		sub-rounded pebbles, change	Sheen on Water
---		-----		to pebbles 18.0' - 19.0',	
18---		-----		change to brown silty sand	
---		-----		with some clay 19.5' - 20.0'	
19---		-----		Log Approved By:	
---		-----		Martin Gilgallon, P.G.	



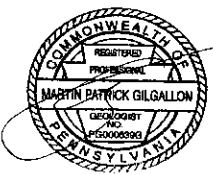
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-18
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	14:32	15:14	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 4.0'	0.0' - 4.0'	Wet 0.5' - 2.0'
1---	0'-4'	-----	PID: 0.0 ppm	Grass, change to brown silty sandy clay with sandstone and red shale fragments	Slight Odor
2---	(14:35)	-----			No Visual
3---		-----			
4---	SS-2	-----	Rec: 3.9'	4.0' - 8.0'	Dry to Damp
5---	4'-8'	-----	PID: 0.0 ppm	Brown silty sandy clay with sandstone and red shale fragments	Odor Present
6---	(14:40)	-----	at 5.0'		No Visual
7---		-----	268 ppm at 6.0'		Sample ID #:
8---		-----	575 ppm at 7.5'		058-0303-TB18A
9---		-----			Sample Depth:
10---		-----			6.5' - 8.0'
11---		-----			Sample Time: 1440
12---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Dry to Damp
13---	8'-12'	-----	PID: 0.0 ppm	Brown silty sandy clay with sandstone and red shale fragments; sandstone cobbles at 11.0' - 11.5'	Odor Present
14---	(14:52)	-----	at 8.5'		No Visual
15---		-----	1,948 ppm		Sample ID #:
16---		-----	at 10.0'		058-0303-TB18B
17---		-----	3,042 ppm at 11.5'		Sample Depth:
18---		-----			10.0' - 11.5'
19---		-----			Sample Time: 1452
20---	SS-4	-----	Rec: 4.0'	12.0' - 16.0'	Damp to Moist
21---	12'-16'	-----	PID: 1,296 ppm	Brown silty sandy clay with sandstone and red shale fragments, change to brown sand with some clay ~ 15.5'	Odor Present
22---	(15:02)	-----	at 13.0'		Sample ID #:
23---		-----	3,199 ppm		058-0303-TB18C
24---		-----	at 15.5'		Sample Depth:
25---		-----			15.0' - 16.0'
26---		-----			Sample Time: 1502
27---	SS-5	-----	Rec: 2.6'	16.0' - 20.0'	Wet
28---	(15:14)	-----	PID: N/A	Brown sand with silt and clay and sandstone rock fragments	Odor Present
29---		-----			Sheen on Water
30---		-----			
31---		-----			
32---		-----			
33---		-----			
34---		-----			
35---		-----			
36---		-----			
37---		-----			
38---		-----			
39---		-----			
40---		-----			



Log Approved By:
Martin Gilgallon, P.G.

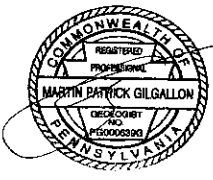
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-19
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	15:20	16:01	20.0'		

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.8'	0.0' - 4.0'	Wet 0.5' - 1.5'
1---	0'-4'	-----	PID: 0.0 ppm	Grass, change to brown silty sandy clay with sandstone and red shale fragments	No Odor
2---	(15:22)	-----			No Visual
3---		-----			
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry
5---	4'-8'	-----	PID: 0.0 ppm	Brown silty sandy clay with sandstone and red shale fragments	No Odor
6---	(15:27)	-----			No Visual
7---		-----			
8---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Dry to Damp
9---	8'-12'	-----	PID: 0.0 ppm	Brown silty sandy clay with sandstone and red shale fragments	No Odor
10---	(15:33)	-----			No Visual
11---		-----			
12---	SS-4	-----	Rec: 3.8'	12.0' - 16.0'	Damp
13---	12'-16'	-----	PID: 0.0 ppm	Brown silty sandy clay with sandstone and red shale fragments	No Odor
14---	(15:49)	-----			No Visual
15---		-----			Sample ID #: 058-0303-TB19A
16---	SS-5	-----	Rec: 2.4'	16.0' - 20.0'	Sample Depth: 15.0' - 16.0'
17---	16'-20'	-----	PID: 0.0 ppm	Brown silty sandy clay with sandstone and red shale fragments, change to brown sandy clay with sandstone fragments ~ 17.5'	Sample Time: 1549
18---	(16:01)	-----			Wet at 17.0'
19---		-----			Slight Odor
		-----			No Visual



Log Approved By:
Martin Gilgallon, P.G.

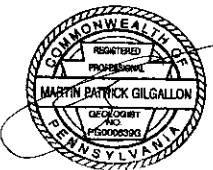
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-20
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	16:09	16:38	12.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.8'	0.0' - 4.0'	Dry
---	0'-4'	-----	PID: 0.0 ppm	Gravel and mixed silty sandy	No Odor
1---	(16:14)	-----		soils and ash, change to brown	No Visual
---		-----		silty sandy soils with sandstone	
2---		-----		and red shale fragments	
---		-----		at 1.5' - 4.0'	
3---		-----			
---		-----			
4---	SS-2	-----	Rec: 3.6'	4.0' - 8.0'	Wet 4.0' - 6.0'
---	4'-8'	-----	PID: 0.0 ppm	Brown silty sandy clay with	No Odor
5---	(16:21)	-----		sandstone and red shale	No Visual
---		-----		fragments	
6---		-----			
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 1.5'	8.0' - 12.0'	Wet
---	8'-12'	-----	PID: 0.0 ppm	Brown silty sandy clay with	No Odor
9---	(16:38)	-----		abundant sandstone and	No Visual
---		-----		shale fragments	
10---		-----			No Sample Taken
---		-----			
11---		-----			
---		-----			
12---		-----			
---		-----			
13---		-----			
---		-----			
14---		-----			
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

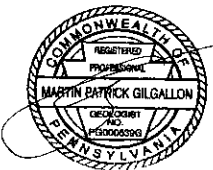
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Phase II: Lewis Brothers	Date Started: March 3, 2008
Client: Lewis Brothers	Date Finished: March 3, 2008
Purpose: Soil Sampling Program	
Contractor: GEA, Inc.	Boring Number: TB-21
Driller: Jim Strickland	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	16:46	17:07	12.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
---	SS-1	-----	Rec: 3.8'	0.0' - 4.0'	Dry
---	0'-4'	-----	PID: 0.0 ppm	Asphalt and mixed fill	No Odor
1---	(16:52)	-----		materials, gravel and silty	No Visual
---		-----		sandy soils to 2.0', change to	
2---		-----		brown silty sandy clay with	
---		-----		sandstone and shale	
3---		-----		fragments	
---		-----			
4---	SS-2	-----	Rec: 2.5'	4.0' - 8.0'	Wet
---	4'-8'	-----	PID: N/A	brown silty sandy clay with	No Odor
5---	(16:56)	-----		abundant sandstone and	No Visual
---		-----		shale fragments	Maybe surface water
6---		-----			infiltration to boring
---		-----			
7---		-----			
---		-----			
8---	SS-3	-----	Rec: 2.8'	8.0' - 12.0'	Damp to Moist
---	8'-12'	-----	PID: N/A	Brown silty sandy clay with	with surface water
9---	(17:07)	-----		sandstone and shale	entering hole
---		-----		fragments (sub-rounded	No Odor
10---		-----		pebbles)	No Visual
---		-----			Sample ID #:
11---		-----			058-0303-TB21A
---		-----			Sample Depth:
12---		-----			11.0' - 12.0'
---		-----			Sample Time: 1707
13---		-----			
---		-----			
14---		-----			
---		-----			
15---		-----			
---		-----			
16---		-----			
---		-----			
17---		-----			
---		-----			
18---		-----			
---		-----			
19---		-----			
---		-----			



Log Approved By:
Martin Gilgallon, P.G.

Project: Site Characterization - Lewis Brothers	Date Started: June 12, 2008
Client: Ruth Lewis	Date Finished: June 12, 2008
Purpose: Soil Sampling Activities	
Contractor: Eichelbergers, Incorporated	Boring Number: TB-22
Driller: Mike Livingston	Job Number: 27058.03
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 1

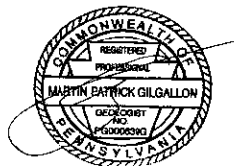
TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1	-----	Rec: 4.0'	0.0' - 4.0'	Gravel	
---	0'-4'	-----	PID: 0.0 ppm	Brown sand and rock fragments	Dry	
1---	(11:24)	-----	No Odor	change to dark brown clay		
---		-----		with silt to 2.0', change to		
2---		-----		red-brown silt with trace clay		
---		-----		and sub-rounded pebbles		
3---		-----				
---		-----				
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry	
---	4'-8'	-----	PID: 0.0 ppm	Red-brown silt with some	Very Tight	
5---	(11:29)	-----	No Odor	clay and abundant		
---		-----		sub-angular to sub-rounded		
6---		-----		pebbles and cobbles		
---		-----				
7---		-----				
---		-----				
8---	SS-3	-----	Rec: 3.0'	8.0' - 12.0'	Wet at 8.0' - 9.0'	
---	8-12'	-----	PID: 0.0 ppm	Very tight red-brown silt	Dry 9.0' - 12.0'	
9---	(11:34)	-----	No Odor	with some clay and	Sample ID #:	
---		-----		abundant sub-rounded	058-0612-TB22	
10---		-----		pebbles and cobbles	Sample Depth:	
---		-----			11.0' - 12.0'	
11---		-----			Sample Time: 1134	
---		-----			Sample Dry	
12---	SS-4	-----	Rec: 3.0'	12.0' - 16.0'	Wet from Top	
---	12'-16'	-----	PID: 0.0 ppm	Very tight red-brown silt		
13---	(11:51)	-----	No Odor	and clay with pebbles and		
---		-----		cobbles		
14---		-----				
---		-----				
15---		-----				
---		-----				
16---		-----				
---		-----				
17---		-----				
---		-----				
18---		-----				
---		-----				
19---		-----				
---		-----				



Log Prepared By:
Martin Gilgallon, P.G.

Project: Site Characterization - Lewis Brothers	Date Started: June 12, 2008
Client: Ruth Lewis	Date Finished: June 12, 2008
Purpose: Soil Sampling Activities	
Contractor: Eichelbergers, Incorporated	Boring Number: TB-23
Driller: Mike Livingston	Job Number: 27058.03
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1	-----	Rec: 4.0'	0.0' - 4.0'	Asphalt	
---	0'-4'	-----	PID: 0.0 ppm	Asphalt and fill to 1.0',	Dry	
1---	(12:19)	-----	No Odor	change to red-brown sand		
---		-----		and silt with trace clay and		
2---		-----		sub-angular pebbles		
---		-----				
3---		-----				
---		-----				
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry	
---	4'-8'	-----	PID: 0.0 ppm	Red-brown sand and silt		
5---	(12:22)	-----	No Odor	with trace clay, abundant		
---		-----		sub-angular to sub-rounded		
6---		-----		pebbles and cobbles		
---		-----				
7---		-----				
---		-----				
8---	SS-3	-----	Rec: 4.0'	8.0' - 12.0'	Dry	
---	8-12'	-----	PID: 0.0 ppm	Very tight sand, silt and clay	Sample ID #:	
9---	(12:33)	-----	Very Slight Odor	with angular to sub-rounded	058-0612-TB23A	
---		-----	at 10.0'	pebbles and cobbles	Sample Depth:	
10---		-----			10.0' - 10.5'	
---		-----			Sample Time: 1233	
11---		-----				
---		-----				
12---	SS-4	-----	Rec: 2.5'	12.0' - 13.3'	Dry	
---	12'-16'	-----	PID: 700 ppm	Dark brown sand, silt and	Wet at 12.5'	
13---	(12:44)	-----	at 15.5' - 16.0'	some clay with few pebbles,	Sample ID #:	
---		-----		change to gray sand	058-0612-TB23B	
14---		-----		~ 15.5' - 16.0'	Sample Depth:	
---		-----			12.5' - 13.3'	
15---		-----		Refusal at 13.3'	Sample Time: 1244	
---		-----				
16---		-----				
---		-----				
17---		-----				
---		-----				
18---		-----				
---		-----				
19---		-----				
---		-----				



Log Prepared By:
Martin Gilgallon, P.G.

Project: Site Characterization - Lewis Brothers	Date Started: June 12, 2008
Client: Ruth Lewis	Date Finished: June 12, 2008
Purpose: Soil Sampling Activities	
Contractor: Eichelbergers, Incorporated	Boring Number: TB-24
Driller: Mike Livingston	Job Number: 27058.03
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 1

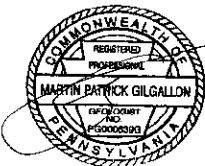
TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1	-----	Rec: 4.0'	0.0' - 4.0'	Asphalt	
---	0'-4'	-----	PID: 0.0 ppm	Asphalt and fill to 1.0',	Dry	
1---	(13:00)	-----	No Odor	change to brown sand with		
---		-----		trace clay and sub-rounded		
2---		-----		cobbles and pebbles		
---		-----				
3---		-----				
---		-----				
4---	SS-2	-----	Rec: 4.0'	4.0' - 8.0'	Dry	
---	4'-8'	-----	PID: 0.0 ppm	Red-brown sand, silt and		
5---	(13:05)	-----	No Odor	clay with abundant		
---		-----		sub-rounded pebbles and		
6---		-----		cobbles		
---		-----				
7---		-----				
---		-----				
8---	SS-3	-----	Rec: 3.5'	8.0' - 12.0'	Dry	
---	8-12'	-----	PID: 0.0 ppm	Tight red-brown silt with		
9---	(13:11)	-----	No Odor	some clay and sub-rounded		
---		-----		cobbles and pebbles		
10---		-----				
---		-----				
11---		-----				
---		-----				
12---	SS-4	-----	Rec:	12.0' - 14.0'	Wet ~ 13.8' - 14.0'	
---	12'-16'	-----	PID: 2,300 ppm	Brown sand and silt with	Sample ID #:	
13---	(13:25)	-----	at 13.0'	cobbles and pebbles,	058-0612-TB24	
---		-----	790 ppm at 13.5'	change to gray-brown	Sample Depth:	
14---		-----		sand ~ 13.8' - 14.0'	12.8' - 13.0'	
---		-----		Gray micaceous sandstone	Sample Time: 1325	
15---		-----		in shoe		
---		-----		Refusal at 14.0'		
16---		-----				
---		-----				
17---		-----				
---		-----				
18---		-----				
---		-----				
19---		-----				
---		-----				



Log Prepared By:
Martin Gilgallon, P.G.

Project: Site Characterization - Lewis Brothers	Date Started: June 12, 2008
Client: Ruth Lewis	Date Finished: June 12, 2008
Purpose: Soil Sampling Activities	
Contractor: Eichelbergers, Incorporated	Boring Number: TB-25
Driller: Mike Livingston	Job Number: 27058.03
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1	-----	Rec: 3.7'	0.0' - 4.0'	Asphalt	
1---	0'-4'	-----	PID: 0.0 ppm	Asphalt with fill, change to	Dry	
---	(14:02)	-----	No Odor	gray sand ~ 2.0', change to		
2---		-----		brown sand with abundant		
---		-----		cobbles / pebbles ~ 2.0' - 4.0'		
3---		-----				
---		-----				
4---	SS-2	-----	Rec: 2.5'	4.0' - 6.5'	Dry	
---	4'-8'	-----	PID: 0.0 ppm	Red-brown sand with trace	Sample ID #:	
5---	(14:08)	-----	No Odor	clay, cobbles and pebbles,	058-0612-TB25	
---		-----		gray mica sandstone in	Sample Depth:	
6---		-----		gravel	6.0' - 6.5'	
---		-----			Sample Time: 1408	
7---		-----				
---		-----				
8---		-----				
---		-----				
9---		-----				
---		-----				
10---		-----				
---		-----				
11---		-----				
---		-----				
12---		-----				
---		-----				
13---		-----				
---		-----				
14---		-----				
---		-----				
15---		-----				
---		-----				
16---		-----				
---		-----				
17---		-----				
---		-----				
18---		-----				
---		-----				
19---		-----				
---		-----				



Log Prepared By:
Martin Gilgallon, P.G.

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-26
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	13:11	13:30	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 1.9'	0.0' - 5.0'	Asphalt Surface
1---	0'-5'	0.0		Dark gray modified fill	

2---		0.0			

3---		0.0			

4---		0.0			

5---	SS-2	0.0	Rec: 2.2'	5.0' - 10.0'	
---	5'-10'			Dark gray modified fill to 9.5',	
6---	(13:18)			change to dark reddish brown	
---				silt and clay with abundant	
7---		0.0		sub-angular pebbles	

8---		0.0		Moist	

9---					

10---	SS-3	0.0	Rec: 4.8'	10.0' - 15.0'	Sample Log
---	10'-15'			Dark reddish brown silt and	Sample ID #:
11---	(13:24)			clay with abundant	058-1110-TB26A
---		1.7		sub-angular pebbles	Sample Depth:
12---					12.0' - 13.0'
---				Moist to 14.5'	Sample Time: 1324
13---		9.0		Wet Beyond	

14---					Sample ID #:
---					058-1110-TB26B
15---	SS-4	1465	Rec: 4.7'	15.0' - 20.0'	Sample Depth:
---	15'-20'		Product on Water	Dark reddish brown silt and	14.5' - 15.5'
16---	(13:30)			clay with abundant	Sample Time: 1330
---				sub-angular pebbles	
17---					
---				Wet to 18.0'	
18---		2421		Moist Beyond	

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	
---		500			



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 18, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 18, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-27
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	8:53	9:16	18.5'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 3.1'	0.0' - 5.0'	Asphalt Surface
1---	0'-5'	6.7		Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
2---		1644			
3---				Damp	
4---		2514			
5---	SS-2		Rec: 3.8'	5.0' - 10.0'	
6---	5'-10'	1361		Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
7---	(09:00)				
8---		1362		Damp	
9---		668			
10---	SS-3		Rec: 4.2'	10.0' - 15.0'	Sample Log
11---	10'-15'	141		Dark reddish brown silt and clay with some pulverized sandstone fragments	Sample ID #: 058-1110-TB27A
12---	(09:09)				Sample Depth: 4.5' - 5.0'
13---		170		Damp / Moist	Sample Time: 0855
14---		456			Sample ID #: 058-1110-TB27B
15---	SS-4		Rec: 3.1'	15.0' - 18.5'	Sample Depth: 16.0' - 17.0'
16---	15'-20'	82.3		Dark reddish brown silt and clay with some sand and pulverized sandstone fragments; sand layers at 16.0'-17.0' (0.1' thick)	Sample Time: 0916
17---	(09:16)				Damp / Moist
18---		84.7			Wet 16.0' - 16.1'
19---				Refusal at 18.5'	Wet 17.0' - 17.1'
---				Log Approved By:	
---				Martin Gilgallon, P.G.	



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 18, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 18, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-28
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	8:15	8:48	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 1.8'	0.0' - 5.0'	Gravel Surface
1---	0'-5'	0.0		Gray modified fill	
---				Damp	
2---					

3---		0.0			

4---					

5---	SS-2	0.0	Rec: 3.8'	5.0' - 10.0'	
---	5'-10'			Dark reddish brown silt and	
6---	(08:32)	1248		clay with some sand and	
---				pulverized sandstone	
7---				fragments	

8---		55.5		Damp	

9---					

10---	SS-3	23.4	Rec: 2.5'	10.0' - 15.0'	Sample Log
---	10'-15'			Dark reddish brown silt and	Sample ID #:
11---	(08:39)			clay with some sand and	058-1110-TB28A
---				pulverized sandstone	Sample Depth:
12---		31.3		fragments; sand layer	6.0' - 7.0'
---				at 14.0' (0.2' thick)	Sample Time: 0832
13---				Moist to 13.5'	
---				Wet 13.5' - 14.0'	Sample ID #:
14---		102		Moist 14.0' - 15.0'	058-1110-TB28B
---					Sample Depth:
15---	SS-4		Rec: 2.6'	15.0' - 20.0'	13.5' - 14.5'
---	15'-20'			Dark reddish brown sand,	Sample Time: 0839
16---	(08:48)			silt and clay with pulverized	
---				sandstone fragments	
17---		0.0			
---				Moist / Wet	
18---					

19---				Log Approved By:	
---				Martin Gilgallon, P.G.	
		0.0			



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-29
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	12:03	12:20	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 4.3'	0.0' - 5.0'	Asphalt Surface
1---	0'-5'	0.0		Dark brown sand, silt and clay with abundant pulverized sandstone fragments	
2---				Damp	
3---		0.0			
4---		0.0			
5---	SS-2	0.0	Rec: 4.7'	5.0' - 10.0'	
6---	5'-10'			Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
7---	(12:08)	0.0			
8---		0.0		Damp / Moist	
9---		0.0			
10---	SS-3	0.0	Rec: 4.9'	10.0' - 15.0'	Sample Log
11---	10'-15'			Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	Sample ID #: 058-1110-TB29A
12---	(12:15)	0.0			Sample Depth: 9.0' - 10.0'
13---				Moist to 14.5'	Sample Time: 1208
14---		0.0		Wet 14.5' - 15.0'	Sample ID #: 058-1110-TB29B
15---	SS-4	53.5	Rec: 4.5'	15.0' - 20.0'	Sample Depth: 14.5' - 15.5'
16---	15'-20'			Dark reddish brown sand, silt and clay with abundant sub-angular pebbles	Sample Time: 1220
17---	(12:20)	291			
18---				Wet	
19---		348		Log Approved By:	
---				Martin Gilgallon, P.G.	



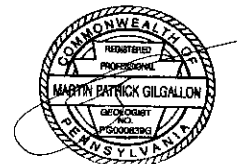
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-30
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	13:35	14:05	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1	78.0	Rec: 4.8'	0.0' - 5.0' Dark reddish brown sand, silt and clay with abundant sub-angular pebbles Damp	Asphalt Surface
1---	0'-5' (13:40)				
2---					
3---					
4---		16.1	Rec: 4.9'	5.0' - 10.0' Dark reddish brown silt and clay with abundant pulverized and sub-angular sandstone pebbles and cobbles Damp / Moist	
5---	SS-2				
6---	5'-10' (13:52)				
7---					
8---		775			
9---					
10---	SS-3				
11---	10'-15' (13:59)				
12---		1342	Rec: 3.8'	10.0' - 15.0' Dark reddish brown sand, silt and clay with abundant pulverized sandstone fragments Moist to 14.5' Wet 14.5' - 15.0'	Sample Log Sample ID #: 058-1110-TB30A Sample Depth: 12.0' - 13.0' Sample Time: 1359
13---					
14---					
15---	SS-4				
16---	15'-20' (14:05)	3855	Rec: 3.3'	15.0' - 20.0' Dark reddish brown sand, silt and clay with abundant sub-angular pebbles Wet 15.0' - 17.0' Moist Beyond	Sample ID #: 058-1110-TB30B Sample Depth: 15.0' - 16.0' Sample Time: 1405
17---					
18---					
19---					
---		3591			
---		87.1		Log Approved By: Martin Gilgallon, P.G.	



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-31
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	14:17	14:37	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1	24.1	Rec: 4.0'	0.0' - 5.0' Dark reddish brown sand, silt and clay with sub-angular pebbles Damp	Asphalt Surface
1---	0'-5'				
2---	(14:19)				
3---					
4---		31.4	Rec: 4.8'	5.0' - 10.0' Dark reddish brown silt and clay with some sand and sub-angular pebbles Damp / Moist	
5---	SS-2				
6---	5'-10'				
7---	(14:24)				
8---		747			
9---					
10---	SS-3				
11---	10'-15'				
12---	(14:30)	80.3	Rec: 4.7'	10.0' - 15.0' Dark reddish brown silt and clay with sub-angular pebbles; 0.3' sand layer at 13.5'	Sample Log Sample ID #: 058-1110-TB31A Sample Depth: 7.0' - 8.0' Sample Time: 1424
13---					
14---					
15---					
16---	SS-4	3587	Rec: 4.0' Product on Water	15.0' - 20.0' Dark reddish brown silt and clay with some sand and sub-angular pebbles	Sample ID #: 058-1110-TB31B Sample Depth: 13.5' - 14.5' Sample Time: 1430
17---	15'-20'				
18---	(14:37)				
19---					
---		4068		Wet to 18.0' Moist Beyond	

---		114		Log Approved By: Martin Gilgallon, P.G.	



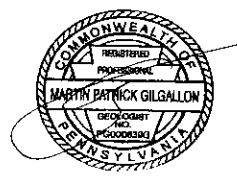
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-32
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	14:49	15:11	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 4.9'	0.0' - 5.0'	Asphalt Surface
1---	0'-5'	0.0		Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
2---					
3---		26.0		Damp	
4---					
5---	SS-2	26.9	Rec: 4.8'	5.0' - 10.0'	
6---	5'-10'			Dark reddish brown sand, silt and clay with abundant pulverized sandstone fragments	
7---	(14:57)	1912			
8---				Damp	
9---					
10---	SS-3	1540	Rec: 2.4'	10.0' - 15.0'	Sample Log
11---	10'-15'			Dark reddish brown sand, silt and clay with abundant pulverized sandstone fragments; sandstone fragment in shoe	Sample ID #: 058-1110-TB32A
12---	(15:02)	1390			Sample Depth: 7.0' - 8.0'
13---				Damp	Sample Time: 1457
14---					Sample ID #: 058-1110-TB32B
15---	SS-4	780	Rec: 2.2'	15.0' - 20.0'	Sample Depth: 15.0' - 16.0'
16---	15'-20'			Dark reddish brown sand, silt and clay with abundant pulverized sandstone fragments	Sample Time: 1511
17---	(15:11)	76.0			
18---				Wet to 18.0'	
19---				Moist Beyond	
---		55.1		Log Approved By:	
				Martin Gilgallon, P.G.	



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 18, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 18, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-33
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	9:35	10:07	18.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 4.0'	0.0' - 5.0'	Asphalt Surface
1---	0'-5'	0.0		Dark reddish brown and orange brown silt and clay with some sand and pulverized sandstone fragments	
2---	(09:40)			Damp	
3---		0.0			
4---					
5---	SS-2	3.0	Rec: 4.4'	5.0' - 10.0'	
6---	5'-10'			Dark reddish brown sand, silt and clay with pulverized sandstone fragments	
7---	(09:44)	3814		Moist	
8---					
9---		3276			
10---					
11---	SS-3	3001	Rec: 4.0'	10.0' - 15.0'	Sample Log Sample ID #: 058-1110-TB33A Sample Depth: 6.0' - 7.0' Sample Time: 0944 Sample ID #: 058-1110-TB33B Sample Depth: 16.0' - 17.0' Sample Time: 1007
12---	10'-15'			Dark reddish brown silt and clay with pulverized sandstone fragments	
13---	(09:56)	2991		Moist	
14---					
15---	SS-4	549	Rec: 2.7'	15.0' - 18.0'	
16---	15'-20'			Dark reddish brown sand, silt and clay with pulverized sandstone fragments	
17---	(10:07)	3509		Moist 15.0' - 16.0'	
18---				Wet 16.0' - 17.0'	
19---		102		Moist 17.0' - 18.0'	
---				Refusal @ 18.0'	
---				Log Approved By: Martin Gilgallon, P.G.	



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 18, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 18, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-34
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	10:24	10:50	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 4.2'	0.0' - 5.0'	Asphalt Surface
1---	0'-5'			Dark reddish brown and orange brown silt and clay with some sand and pulverized sandstone fragments	
2---	(10:26)	0.0			
3---		0.0		Dry / Damp	
4---					
5---	SS-2	0.0	Rec: 3.9'	5.0' - 10.0'	
6---	5'-10'			Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
7---	(10:32)				
8---		32.0		Damp	
9---					
10---	SS-3	1401	Rec: 5.0'	10.0' - 15.0'	
11---	10'-15'			Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
12---	(10:42)				
13---		63.9		Damp / Moist	
14---					Sample Log
15---	SS-4	145	Rec: 4.3'	15.0' - 20.0'	Sample ID #: 058-1110-TB34A
16---	15'-20'			Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	Sample Depth: 9.0' - 10.0'
17---	(10:50)				Sample Time: 1032
18---		74.8			Sample ID #: 058-1110-TB34B
19---				Moist to 19.0'	Sample Depth: 18.0' - 19.0'
---				Wet 19.0' - 20.0'	Sample Time: 1050
---		37.8		Log Approved By:	
---				Martin Gilgallon, P.G.	



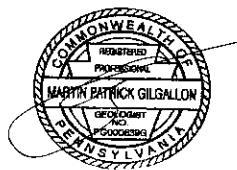
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-35
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	11:16	11:32	18.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 2.7'	0.0' - 5.0'	Grass Surface
1---	0'-5'	0.0		Medium brown sand and silt with modified fill to 2.0', change to dark brown sand, silt and clay	
2---	(11:18)	0.0			
3---		0.0		Moist	
4---		0.0			
5---	SS-2	0.0	Rec: 4.4'	5.0' - 10.0'	
6---	5'-10'	0.0		Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
7---	(11:20)	0.0			
8---		0.0		Damp	
9---		0.0			
10---	SS-3	0.0	Rec: 4.3'	10.0' - 15.0'	Sample Log Sample ID #: 058-1110-TB35A Sample Depth: 6.5' - 7.5' Sample Time: 1120 Sample ID #: 058-1110-TB35B Sample Depth: 17.0' - 18.0' Sample Time: 1132
11---	10'-15'	0.0		Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
12---	(11:25)	0.0			
13---		1053		Moist	
14---					
15---	SS-4	2320	Rec: 3.0'	15.0' - 18.0'	
16---	15'-20'			Dark reddish brown sand, silt and clay with some sub-angular pebbles	
17---	(11:32)	2107			
18---		695		Moist	
19---				Refusal at 18.0'	
---				Log Approved By: Martin Gilgallon, P.G.	



Pennsylvania Tectonics, Inc.

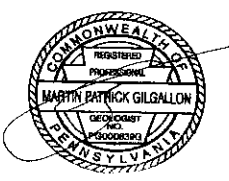
TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-36
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	10:57	11:11	13.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 3.3'	0.0' - 5.0'	Grass Surface
1---	0'-5'	0.0		Dark brown sand, silt and clay with sub-angular sandstone and mudstone pebbles	
2---					
3---		0.0		Damp	
4---		0.0			
5---	SS-2	0.0	Rec: 4.8'	5.0' - 10.0'	Sample Log Sample ID #: 058-1110-TB36A Sample Depth: 6.5' - 7.5' Sample Time: 1108 Sample ID #: 058-1110-TB36B Sample Depth: 11.5' - 12.5' Sample Time: 1111
6---	5'-10'	67.5		Dark reddish brown silt and clay with some sand and pulverized sandstone; sand layer at 7.0'	
7---	(11:08)	146			
8---		676		Wet at 7.0'	
9---				Moist Above and Below	
10---	SS-3	1215	Rec: 3.3'	10.0' - 13.0'	
11---	10'-15'			Dark reddish brown silt and clay with some sand and abundant pulverized sandstone fragments to 12.0', change to reddish brown sand and silt with pulverized sandstone fragments	
12---	(11:11)	2250			
13---		1709			
14---				Moist to 12.0'	
15---				Wet Beyond	
16---				Refusal at 13.0'	
17---					
18---					
19---					

Log Approved By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-37
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	10:09	10:32	20.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 4.9'	0.0' - 5.0'	Grass Surface
1---	0'-5'	0.0		Dark reddish brown sand, silt and clay with pulverized sandstone fragments	
2---		0.0		Damp	
3---		0.0			
4---		0.0			
5---	SS-2	0.0	Rec: 4.8'	5.0' - 10.0'	
6---	5'-10'			Dark reddish brown silt and clay with some pulverized sandstone fragments and sub-angular pebbles	
7---	(10:18)	0.0			
8---		0.0		Damp / Moist	
9---					
10---	SS-3	0.0	Rec: 2.5'	10.0' - 15.0'	Sample Log
11---	10'-15'			Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	Sample ID #: 058-1110-TB37A
12---	(10:24)	0.0			Sample Depth: 7.5' - 8.5'
13---		0.0		Moist	Sample Time: 1018
14---					Sample ID #: 058-1110-TB37B
15---	SS-4	0.0	Rec: 3.0'	15.0' - 20.0'	Sample Depth: 18.0' - 19.0'
16---	15'-20'			Dark reddish brown silt and clay with some pulverized sandstone fragments; sand layer at 18.5' (0.2' thick)	Sample Time: 1032
17---	(10:32)				
18---		25.1		Moist to 18.5'	
19---				Wet Beyond	
---		1825		Log Approved By: Martin Gilgallon, P.G.	



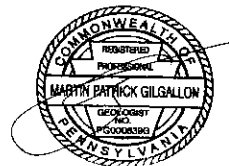
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-38
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	9:35	9:53	20.0'		

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1 0'-5' (09:38)	0.0	Rec: 5.0'	0.0' - 5.0' Dark reddish brown sand, silt and clay with some pulverized sandstone fragments	Grass Surface
1---		0.0			
2---		0.0			
3---		0.0		Dry / Damp	
4---		0.0			
5---	SS-2 5'-10' (09:43)	0.0	Rec: 4.7' Weathered Gas Odor	5.0' - 10.0' Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
6---		0.0			
7---		49.0		Dry / Damp	
8---					
9---					
10---	SS-3 10'-15' (09:48)	55.0	Rec: 5.0'	10.0' - 15.0' Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	Sample Log Sample ID #: 058-1110-TB38A Sample Depth: 9.0' - 10.0' Sample Time: 0943
11---		14.9			
12---				Damp to 14.0' Moist 14.0' - 15.0'	Sample ID #: 058-1110-TB38B Sample Depth: 18.0' - 19.0' Sample Time: 0953
13---					
14---	SS-4 15'-20' (09:53)	54.5	Rec: 3.9'	15.0' - 20.0' Dark reddish brown silt and clay with some sand to 18.5', change to dark brown sand and silt with some clay	
15---		3113			
16---					
17---					
18---				Moist to 18.5' Wet Beyond	
19---				Log Approved By: Martin Gilgallon, P.G.	
---		2514			



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-39
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	9:15	9:31	15.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 4.6'	0.0' - 5.0'	Grass Surface
1---	0'-5'	0.0		Dark reddish brown sand and silt with some clay and pulverized sandstone fragments	
2---		0.0			
3---		0.0		Dry / Damp	
4---					
5---	SS-2	0.0	Rec: 4.8'	5.0' - 10.0'	
6---	5'-10'		Tight	Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
7---		0.0			
8---		0.0		Damp	
9---					
10---	SS-3	0.0	Rec: 4.7'	10.0' - 15.0'	Sample Log
11---	10'-15'			Dark reddish brown silt and clay with some sand and pulverized sandstone fragments to 14.0', change to dark brown sand and silt with some clay	Sample ID #: 058-1110-TB39A
12---		0.0			Sample Depth: 5.0' - 6.0'
13---					Sample Time: 0925
14---		0.0		Damp to 14.0'	Sample ID #: 058-1110-TB39B
15---		0.0		Wet 14.0' - 15.0'	Sample Depth: 13.5' - 14.5'
16---					Sample Time: 0931
17---					
18---					
19---					

Log Approved By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

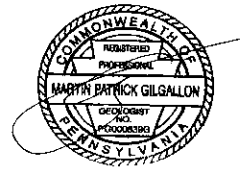
TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: November 11, 2015
Client: Mrs. Ruth Lewis	Date Finished: November 11, 2015
Purpose: Additional Site Characterization	
Contractor: Odyssey Environmental Services	Boring Number: TB-40
Driller: Zach Hoppes	Job Number: 27058.02
Inspector: Kevin Cucura	Sheet: 1 of 1

TIME LOG	Begin	Finish	Depth	S.W.L.	TOC/GL
	14:22	14:41	14.0'	Elevation TOC	Surface

Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---	SS-1		Rec: 4.8'	0.0' - 5.0'	Grass Surface
1---	0'-5'	0.0		Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
2---		0.0			
3---				Dry / Damp	
4---					
5---	SS-2	0.0	Rec: 5.0'	5.0' - 10.0'	
6---	5'-10'			Dark reddish brown silt and clay with some sand and pulverized sandstone fragments	
7---		0.0			
8---				Damp	
9---					
10---	SS-3	0.0	Rec: 2.8'	10.0' - 14.0'	Sample Log
11---	10'-15'			Dark reddish brown silt and clay with pulverized sandstone fragments;	Sample ID #: 058-1110-TB40A
12---		0.0		pulverized sandstone in shoe	Sample Depth: 9.0' - 10.0'
13---				Damp	Sample Time: 1432
14---		0.0		Refusal at 14.0'	Sample ID #: 058-1110-TB40B
15---					Sample Depth: 13.0' - 14.0'
16---					Sample Time: 1441
17---					
18---					
19---					

Log Approved By:
Martin Gilgallon, P.G.



APPENDIX L

Fracture Trace Analysis Report – April 10, 2009



April 10, 2009

Mr. Brian Evans
Senior Project Manager
B&B Diversified Enterprises, Inc.
PO Box 104
Emmaus, PA 18049

**RE: Fracture Trace Analysis / Private Well Information Summary:
Lewis Brothers Garage Property;**
PA Route 347
Scott Township, Lackawanna County, Pennsylvania
PADEP Facility ID#35-10233
USTIF Claim #2007-0053(F)
Pennsylvania Tectonics Project Number: 27058

Dear Mr. Evans,

Per your request, Pennsylvania Tectonics, Incorporated (Pennsylvania Tectonics) is pleased to submit this Project Report summarizing the results of certain activities at the above referenced Lewis Brothers Garage Property (subject property). The subject property is located along PA Route 347 in Scott Township, Lackawanna County, Pennsylvania.

Background

On January 15, 2009, an onsite meeting was conducted with Mr. Martin Gilgallon, P.G. and Mr. Dave Crowther, P.G. of Pennsylvania Tectonics and Mr. Brian Evans of B&B Diversified Enterprises, Inc. (B&B). The purpose of this meeting was to review the results of the October 2008 *Preliminary Site Characterization Report* and discuss / outline the additional work that needs to be completed. It was determined and agreed upon that additional groundwater monitoring wells need to be installed to further delineate the horizontal and vertical extent of the groundwater contamination. Furthermore, additional aquifer testing needs to be completed to aid in understanding the migration pathways of contamination in the groundwater. However, additional activities needed to be completed before final well placements can be made and drilling be initiated. Other project activities also needed to be initiated or resumed. The following list of actions items was compiled as a result of the meeting. The current status of each task is also included below.

environmental consultants

- Completion of a fracture trace analysis. (Completed April 10, 2009)
- Compilation of private well drill logs, construction details and water levels. (Completed April 10, 2009)
- Source reduction including dewatering of the UST cavity and soil excavation. (Pending)
- Resume the sampling of the existing POETs. (Completed February 24, 2009)
- Completion of a high vapor extraction demonstration on MW-2s or MW-3s. (Scheduled)
- Adjusting the scope of work associated with the hand bailing of free product. (Ongoing)
- Initiation of quarterly groundwater monitoring. (Completed April 6, 2009)
- Complete an additional round of soil-vapor monitoring. (Completed March 23, 2009)

Purpose

The purpose of this Project Report is to summarize the results of the Fracture Trace Analysis and provide the information compiled as part of the Private Well Information Summary activities. All project activities were conducted in accordance with Pennsylvania Tectonics' scope of work dated March 6, 2009. This scope of work was reviewed and approved by Mr. Brian Evans of B&B Diversified Enterprises, Inc. and Ms. Bethany Smith of ICF International.

Scope of Work Summary

General

The project activities summarized in this report were conducted in accordance with Pennsylvania Tectonics' scope of work dated March 6, 2009. The proposed scopes of work are provided below.

Fracture Trace Analysis

Pennsylvania Tectonics will complete a Fracture Trace Analysis to determine the presence and orientation of lineaments (e.g. bedding orientation, faults, fractures) in the vicinity of the subject property. Several sets of aerial photographs will be obtained to complete this process. Pennsylvania Tectonics will also complete an investigation to field truth any potential lineaments. The results of the fracture trace analysis will be utilized to help locate future groundwater monitoring wells. The results will also be utilized in concert with the results of the compilation of private well information to aid in understanding the contaminant migration pathways in the study area. An onsite meeting with B&B Diversified Enterprises, Inc., to discuss final monitoring well placement, is recommended.

Compilation of Private Well Information

Pennsylvania Tectonics will compile all available information associated with the private groundwater wells that are located in the study area. This information will include, as possible, the well location, well construction information, geological information, well yield and depth to water bearing zones. Pennsylvania Tectonics will use this information, in conjunction with the results of the Fracture Trace Analysis, to evaluate the contaminant migration pathways in the study area. This information will be obtained from the drillers of record and public records, as possible.

Fracture Trace Analysis

General

Fracture traces and lineaments are commonly straight in plan, and unaffected by local topographic relief and irregularities, hence are considered surface manifestations of vertical or near-vertical zones of fracture concentration. It may be more appropriate to refer to the fracture traces as "photo linears" until it is demonstrated that they are underlain by nearly vertical zones of fracture concentration. Some features mapped are more or less parallel to stratigraphic strike, hence may owe their expression to differences in resistance and chemical weathering of individual rock layers, bedding plane partings, etc., rather than to nearly vertical zones of fracture concentration. Others may reflect surface traces of faults.

A photogeologic fracture trace (or simply fracture trace) is typically defined as a "natural linear feature consisting of topographic (including straight stream segments), vegetation, or soil tonal alignments, visible primarily on aerial photographs, and expressed continuously for less than one mile, or those greater than one mile as lineaments". It may be more appropriate to refer to the fracture traces as "photo linears" until it is demonstrated that they are underlain by nearly vertical zones of fracture concentration. Some features mapped are more or less parallel to stratigraphic strike, hence may owe their expression to differences in resistance and chemical weathering of individual rock layers, bedding plane partings, etc., rather than to nearly vertical zones of fracture concentration. Until shown otherwise, all photo linears mapped are assumed to represent zones of fracture concentration and enhanced weathering because of their potential hydrogeologic and geotechnical significance.

Objectives

- Map fracture traces and lineaments to identify potential pathways for groundwater and areas of potential increased risk for migration of petroleum-impacted groundwater.
- Attempt to understand the hydrogeologic factors that influence the flow regime of the bedrock aquifer.
- Develop a hydrogeologic conceptual model as a necessary first step in preparing a groundwater flow model.

Results of the Fracture Trace Analysis

The following stereo-paired black and white aerial photographs were obtained for stereoscopic review.

Date	Flight Print Number
4-16-1939	AQZ-50-53, 54 and 55
6-4-1939	AQZ-93-88, 89 and 90 (Included as Figure 1)
1-28-1969	GSVBZA-12-7204 and 7205
4-13-1969	GSVCFA-226, 227 and 228
10-10-1969	AQZ-6KK-138 and 139
5-8-1981	417403HAP81-39-89, 90 and 91
8-13-1987	NAPP-90-106 and 107
9-4-1987	NAPP-99-83 and 84
4-15-1992	NAPP-5516-207 and 208

Multiple ages of photographic coverage were requested including the earliest available prints. The latter document land use activities that predate increased urbanization. Urban sprawl tends to obscure the subtle evidence for fracture trace- and lineament-related structures. Also, cover crops vary from year to year. This influences gray tone intensity, hence the ability to recognize photo linears related to zones of fracture concentration or other origins.

The photographs utilized for this investigation are retained in the project file. Photo linears were mapped on each set of photographs. An inspection of these maps reveals that many of the same linears were recognized on more than one set of aerial photographs and others only on a single set. This is a common problem not unique to the study area. Figure 1 has been prepared using photograph AQZ-93-89 to illustrate the interpretation of the individual linears obtained from each aerial. Linears were classified as one of the following.

- **Bedding Plane Partings** - The bedding plane partings were clearly evident throughout mountains bordering the Site area to the south. The bedding plane partings follow bedrock strike at approximately north 35 degrees east. The bedrock dip is to the southeast toward the synclinal axis of the anthracite valley. The bedding planes are illustrated in yellow.
- **Joints** - Joints were oriented both north-south and east-west and are illustrated in green.
- **Faults** – No apparent faults were identified.
- **Fractures** – The immediate Site area exhibits three (3) fracture traces which may be related to jointing or may be actual near-vertical fractures. The three (3) fracture traces are not parallel to the previously-identified joints. These photo linears are illustrated in red.

Field verification was attempted for the three (3) photo linears by PA Tectonics personnel on March 13th, 2009. Due to the urban sprawl in the immediate area of the site, identification of the features was unsuccessful. However, an overlay of the photo linears onto the tax map indicates the Site is within several hundred feet of the projected features. A copy of the tax map is included as Figure 2.

Compilation of Private Well Information

In October 2008, Pennsylvania Tectonics compiled a Preliminary Site Characterization Report to summarize the work completed to date. Included within this investigation was a review of the PaGWIS database to obtain available information associated with the private groundwater production wells located within the vicinity (i.e. one-mile radius) of the subject property. Information presented in the PaGWIS database includes well location, depth to bedrock, well yield, static water level and static water level after yield test. Not all of this information is available for each well. A summary of the information obtained from the PaGWIS database is included in Appendix A.

The database includes information associated with a total of forty-nine (49) private wells located within a one-mile radius of the subject property. However, only eight (8) of these wells are located within a ¼ mile radius of the Lewis Brothers site. Furthermore, only four (4) of the eight (8) wells were sampled by Pennsylvania Tectonics as part of the release investigation sampling program that included a total of seventy-one (71) residences. Therefore, no well construction information was available for the vast majority of the private wells sampled as part of this investigation.

A review of the PaGWIS database indicates that three (3) well drilling companies drilled the majority of the private wells in the vicinity of the subject property. These drilling companies included Cresswell Drilling, Van Fleet Drilling and George J. Reed & Sons. Pennsylvania Tectonics contacted each of these drilling companies to obtain well construction information for properties included in the private well sampling activities. Although each company promised to provide information, only Cresswell Drilling forwarded documentation to Pennsylvania Tectonics.

Cresswell Drilling provided a total of twelve (12) well cards for residences located in the vicinity of the subject property. These wells cards were associated with wells that Cresswell Drilling either installed or performed maintenance on. Therefore, the information presented on the cards varied. No well logs were made available for any of the wells located in the vicinity of the subject property.

A review of the well cards indicates nine (9) of the twelve (12) cards are associated with residences located in the study area. (Note, the well card contained a name and address only, no well construction information was included on this card.) The three (3) remaining cards were associated with names and/or addresses (addresses were generally limited to RR numbers only) that could not be correlated to a specific location. A summary of the well construction information obtained via the PaGWIS database and the information obtained from Cresswell Drilling is included in Table 1, as follows:

Table 1
Lewis Brothers Garage
Summary of Private Well Construction Information

Name	Total Depth	Depth to Bedrock*	SWL	Well Yield
Borgna	198'	84'	4'	10 gpm
Davies**	220'	118'	50'	15 gpm
Dolzak	223'	60'	60'	30 gpm
Hryhorocoff	200'	140'	100'	?
Kowalski	233'	60'	40'	30 gpm
Kuzmiak	175'	101'	?	15 gpm
Lewis Home	197'	23'	70'	20 gpm
Minelli	325'	7'	80'	100 gpm
Pascavage	192'	60'	60'	25 gpm
Pruzinski	200'	?	100'	?
Rabel	235'	?	65'	?
Siniawa	348'	30'	90'	30 gpm
Strong	172'	45'	35'	30 gpm
Trinovitch	220'	68'	100'	20 gpm

(*) Depth to bedrock determined via PaGWIS database or casing depth per Cresswell.

(**) Davies not included in residential sampling program, information used for cross sections

Completion of Geologic Cross Sections

Based on the well construction information presented above, Pennsylvania Tectonics constructed two (2) geologic cross sections in the vicinity of the subject property. Due to the absence of well logs, no lithologic or structural (other than the top of bedrock) information is included on the cross sections. Refer to Appendix B for a copy of the cross sections. The following observations are provided:

- Cross Section A is situated perpendicular to the Hull Creek stream valley and is roughly parallel to strike. The top of bedrock information indicates the thickness of the overburden increases in the vicinity of Hull Creek, which would be expected in a depositional stream valley. The static water level data is inconsistent. Since open rock wells can encounter numerous water bearing zones, the static water level is a summary of the head potentials in each zone or fracture, making the determination of the direction of groundwater flow difficult. In addition, no static water levels are available for the overburden.

- Cross Section B is situated parallel to the Hull Creek stream valley and is roughly perpendicular to strike. The top of bedrock information indicates the thickness of the overburden increases dramatically immediately southeast of the subject property. The limited static water level data suggests groundwater flows to the southeast from the area of the subject property (i.e. located near the Strong well). No static water levels are available for the overburden.

Summary of February 2009 POET Sampling

On February 24, 2009, Pennsylvania Tectonics completed the sampling of the twenty-seven (27) water treatment systems installed as part of this investigation. A review of the analytical data indicates that only three (3) of the twenty-seven (27) wells sampled expressed positive results in the raw water sample. A summary of these positive concentrations is included in Table 2. The locations of these wells are depicted on Figure 2. A review of Figure 2 indicates the Jarrow, Kowalski and Crossley wells are located in the immediate vicinity of the subject property and are located along or immediate to a distinct fracture identified as part of the fracture trace analysis.

Table 2
Lewis Brothers Garage
Summary of Positive Concentrations
February 24, 2009 POET Sampling

Location	Parameter	Concentration	MSC
Jarrow	MTBE	9.9 ug/l	20.0 ug/l
Kowalski	MTBE	1.3 ug/l	20.0 ug/l
Crossley	Benzene	3.8 ug/l	5.0 ug/l
	Ethylbenzene	1.5 ug/l	700.0 ug/l
	MTBE	10.5 ug/l	20.0 ug/l

Summary


As per the October 2008 Preliminary Site Characterization Report, and as discussed during the January 15, 2009 onsite meeting, additional downgradient / sidegradient groundwater monitoring wells are required to complete the groundwater delineation. Therefore, PA Tectonics proposes the installation of seven (7) overburden monitoring wells and six (6) bedrock monitoring wells as identified on Figure 2. (Please note, MW-7s is not identified on the map and will be positioned near the current MW-7D). The locations of these wells were based on the known areas of contamination, in conjunction with the locations of the fractures identified near the subject property. All of the proposed wells are located off the subject property and access has been granted. Table 3 summarizes the proposed well locations and the property owners.

Table 3
Lewis Brothers Garage
Summary of Proposed Well Locations

Well Numbers	Rationale	Property Owner
MW-7s	Sidegradient	Scott Township
MW-8s / MW-8D	Background	Scott Township
MW-9s / MW-9D	Sidegradient	Scott Township
MW-10s / MW-10D	Downgradient	Peregrim
MW-11s / MW-11D	Downgradient	Peregrim
MW-12s / MW-12D	Downgradient	Jarrow or Siniawa
MW-13s / MW-13D	Downgradient	Siniawa

I trust that this information meets your needs at this time. Please feel free to contact me if you have any questions on the comments of this letter or if you require additional information.

Sincerely,



Martin Gilgallon, P.G.
Project Hydrogeologist
Pennsylvania Tectonics, Inc.
Pennsylvania Registered Professional
Geologist No. 000639-G



"By affixing my seal to this document, I am certifying that the information contained herein is true and correct. I further certify that I am licensed to practice geology in the Commonwealth of Pennsylvania and that it is within my professional area of expertise to verify the correctness of this information."

MG/mg – 27058PF

cc: Mr. Dave Crowther, P.G.
Pennsylvania Tectonics Project File #27058

FIGURES

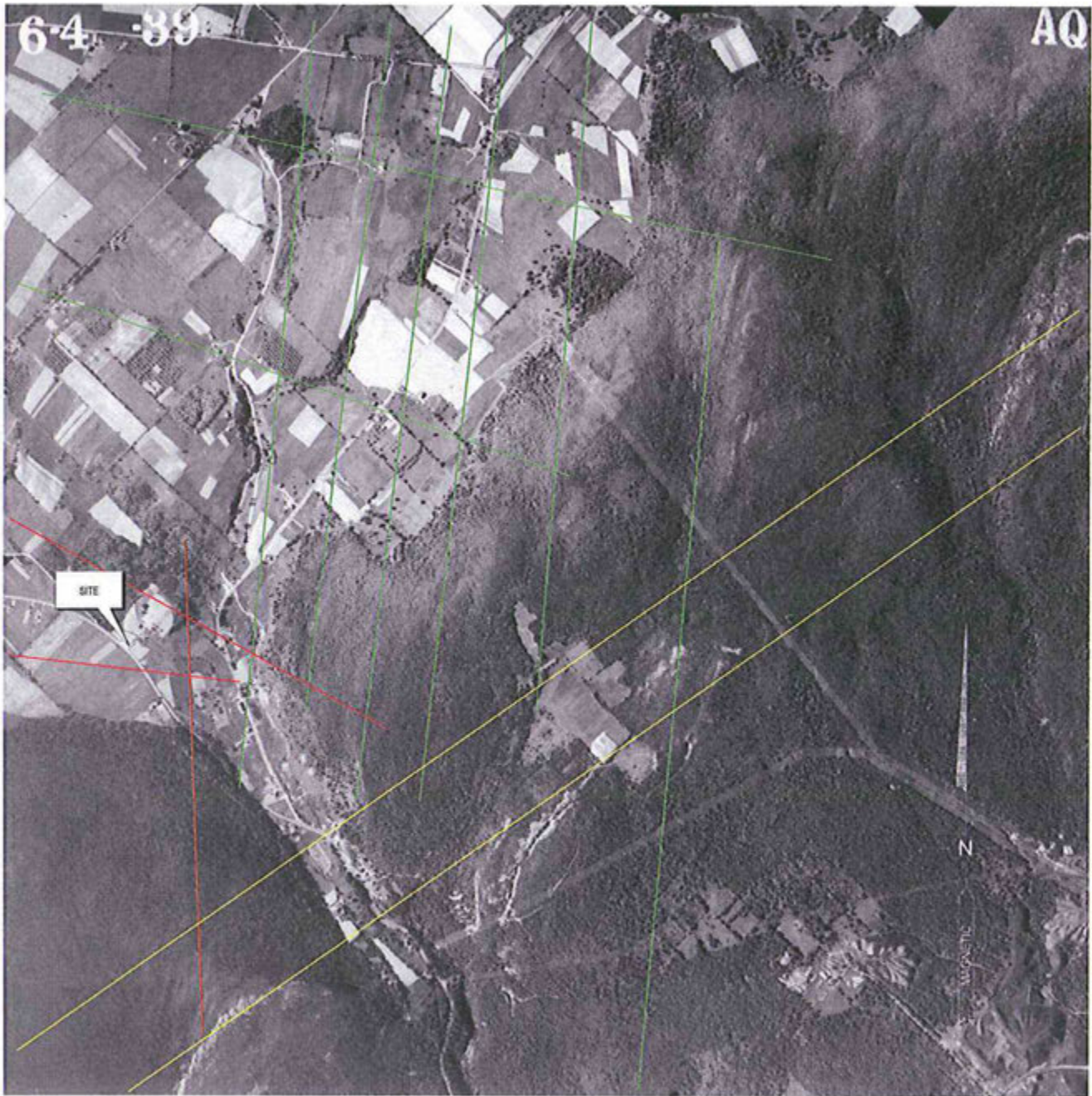


FIGURE NAME: FRACTURE TRACE/LINEAMENT ANALYSIS

PREPARED BY:
PENNSYLVANIA TECTONICS, INC.
 826 MAIN STREET
 PECKVILLE, PA 18452

PROJECT:
LEVMS BROTHERS GARAGE
 ROUTE 247, OLYPHANT, PA 18447
 SCOTT TOWNSHIP, LACKAWANNA COUNTY

SOURCE:
 AQZ-93-88, 6-4-39
<http://www.pennplot.psu.edu/>

REVISED BY:
 D. CROWTHER

SCALE:
 NA

FIGURE NUMBER:
1

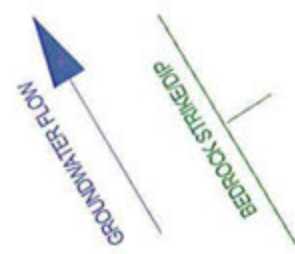
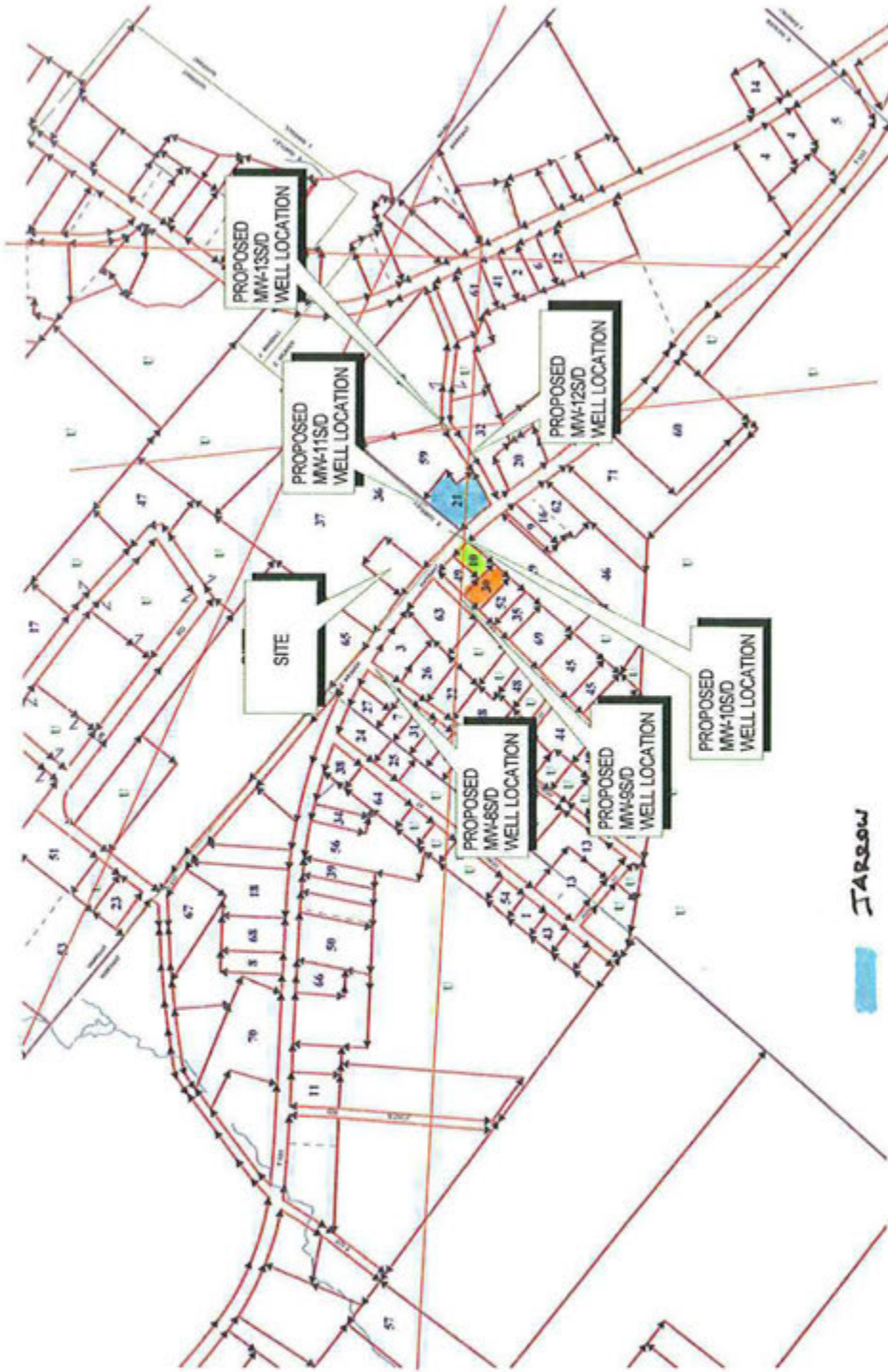


FIGURE NAME: FRACTURE TRACES ANALYSIS

FIGURE NUMBER: 2

REVISION BY: D. CROWTHER

SCALE: NA

SOURCE: NA

PROJECT: LEWIS BROTHERS GARAGE
ROUTE 247, OLYPHANT, PA 18447
SCOTT TOWNSHIP, LACKAWANNA COUNTY

PREPARED BY: PENNSYLVANIA TECTONICS, INC.
825 MAIN STREET
PECKVILLE, PA 16802

APPENDIX A

Private Well Information

P-COVER Well Search

PA Well ID	Well Driller	Date Drilled	Owner	County	Municipality	Length	Well Depth	Well Status	Depth To Bedrock	Well Yield	Water Level Above Yield/Tier	Water Use
121071	CRESSWELL DRILLING CO INC	6/29/1974	HOBREY DAVIES	LACKAWANNA	BLASLY DORO	-75.62111111	220	OPEN HOLE	118	15	100	DOMESTIC
121072	CRESSWELL DRILLING CO INC	9/19/1974	KUZMICK JOSEPH	LACKAWANNA	OLYPHANT	41.4916667	153	OPEN HOLE	48	10	175	DOMESTIC
121073	CRESSWELL DRILLING CO INC	12/6/2004	THE DEN RESTAURANT	LACKAWANNA	OLYPHANT	-75.6472222	200	OPEN HOLE	78	3	160	COMMERCIAL
121074	VAN FLEET DRILLING CO INC	12/20/1986	KENFOWELL	LACKAWANNA	CLARKS SUMMIT BORO	-75.6472222	155	OPEN HOLE	78	30	220	DOMESTIC
121075	GEORGE J REED & SON	6/27/1978	BAMACAVAGE	LACKAWANNA	SCANTON	41.5093333	280	OPEN HOLE	38	10	180	DOMESTIC
121076	GEORGE J REED & SON	6/27/1978	BARRETT A	LACKAWANNA	SCOTT TWP.	41.5044444	235	OPEN HOLE	38	10	180	DOMESTIC
121077	GEORGE J REED & SON	9/1/1978	BELINSKY ROBERT	LACKAWANNA	SCOTT TWP.	41.5061111	230	OPEN HOLE	26	10	180	DOMESTIC
121078	CRESSWELL DRILLING CO INC	10/7/1968	BORGNA F	LACKAWANNA	SCOTT TWP.	-75.6255556	198	OPEN HOLE	84	4	160	DOMESTIC
121079	CRESSWELL DRILLING CO INC	8/7/1989	DOLZAK ROMALD	LACKAWANNA	SCOTT TWP.	41.5111111	223	OPEN HOLE	60	30	150	DOMESTIC
121080	CRESSWELL DRILLING CO INC	8/7/1989	FOUNTAIN TOM	LACKAWANNA	SCOTT TWP.	-75.6272222	219	OPEN HOLE	20	150	150	DOMESTIC
121081	CRESSWELL DRILLING CO INC	7/7/1986	GOLCA ANTHONY	LACKAWANNA	SCANTON	41.4985556	223	OPEN HOLE	20	150	150	DOMESTIC
121082	CRESSWELL DRILLING CO INC	4/1/1984	GOLCA ANTHONY	LACKAWANNA	SCANTON	-75.6136667	175	OPEN HOLE	156	23	120	DOMESTIC
121083	CRESSWELL DRILLING CO INC	12/1/1988	GREBORSKI J	LACKAWANNA	SCANTON	41.4991667	130	OPEN HOLE	90	5	150	DOMESTIC
121084	CRESSWELL DRILLING CO INC	4/19/2003	GUZZI HENRY	LACKAWANNA	SCOTT TWP.	-75.625	176	OPEN HOLE	20	120	250	DOMESTIC
121085	CRESSWELL DRILLING CO INC	1/1/1950	HENDRICKSON D	LACKAWANNA	SCOTT TWP.	-75.6191667	282	OPEN HOLE	80	20	180	DOMESTIC
121086	CRESSWELL DRILLING CO INC	6/1/1966	HERBERT THOMAS	LACKAWANNA	SCOTT TWP.	41.5022222	148	OPEN HOLE	36	8	100	DOMESTIC
121087	CRESSWELL DRILLING CO INC	1/1/1978	HAROLDHOWARTH	LACKAWANNA	SCOTT TWP.	-75.61	100	OPEN HOLE	100	30	100	COMMERCIAL
121088	CRESSWELL DRILLING CO INC	1/1/1978	HUNTER JOHN	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121089	CRESSWELL DRILLING CO INC	1/1/1978	JAMES FRANK	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121090	CRESSWELL DRILLING CO INC	1/1/1978	JESTUS LUNCH	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121091	CRESSWELL DRILLING CO INC	1/1/1978	KEASER MARK	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121092	CRESSWELL DRILLING CO INC	1/1/1978	MENELLI J	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121093	CRESSWELL DRILLING CO INC	10/7/1983	MINELLI ROBERT	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121094	CRESSWELL DRILLING CO INC	7/8/1988	NEW G	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121095	CRESSWELL DRILLING CO INC	9/22/1980	PALLWED JAMES	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121096	CRESSWELL DRILLING CO INC	10/1/1983	PERKINS Y	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121097	CRESSWELL DRILLING CO INC	6/13/1983	PERKINS Y	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121098	CRESSWELL DRILLING CO INC	8/1/1980	PHEL BARBY	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121099	CRESSWELL DRILLING CO INC	9/1/1961	PRIMATEVE CHURCH	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121100	CRESSWELL DRILLING CO INC	1/26/1980	RACH D	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121101	CRESSWELL DRILLING CO INC	8/16/1988	ROMANOVICH MICHAEL	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121102	CRESSWELL DRILLING CO INC	12/4/1978	RUDALVAGE C	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121103	CRESSWELL DRILLING CO INC	12/4/1978	SABLO ROBERT	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121104	CRESSWELL DRILLING CO INC	7/1/1967	SIMAWA W	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121105	CRESSWELL DRILLING CO INC	7/1/1967	STOECKEL ERNE D	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121106	CRESSWELL DRILLING CO INC	8/1/1988	STOECKEL ERNE D	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121107	CRESSWELL DRILLING CO INC	11/6/1966	THOMAS R	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121108	CRESSWELL DRILLING CO INC	1/27/1980	TODDLOWSKY J	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121109	CRESSWELL DRILLING CO INC	1/27/1980	WALTERS LEE	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121110	CRESSWELL DRILLING CO INC	1/27/1980	WOLANSKI D	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL
121111	CRESSWELL DRILLING CO INC	1/27/1980	ZOWACKI WALTER	LACKAWANNA	SCOTT TWP.	-75.6414	100	OPEN HOLE	100	30	100	COMMERCIAL



41° 30'

Scale

22395

123476

123234

22389

22387

122904

123206

123213

122923

22384

22383

2128853

122969

22395

217912

416478

22316

123032

123052

123235

122973

423286

122972

123064

123207

122988

123174

123209

122983

133219

123212

122897

122698

123064

Lewis Brothers

122989

123229

122894

123208

123745

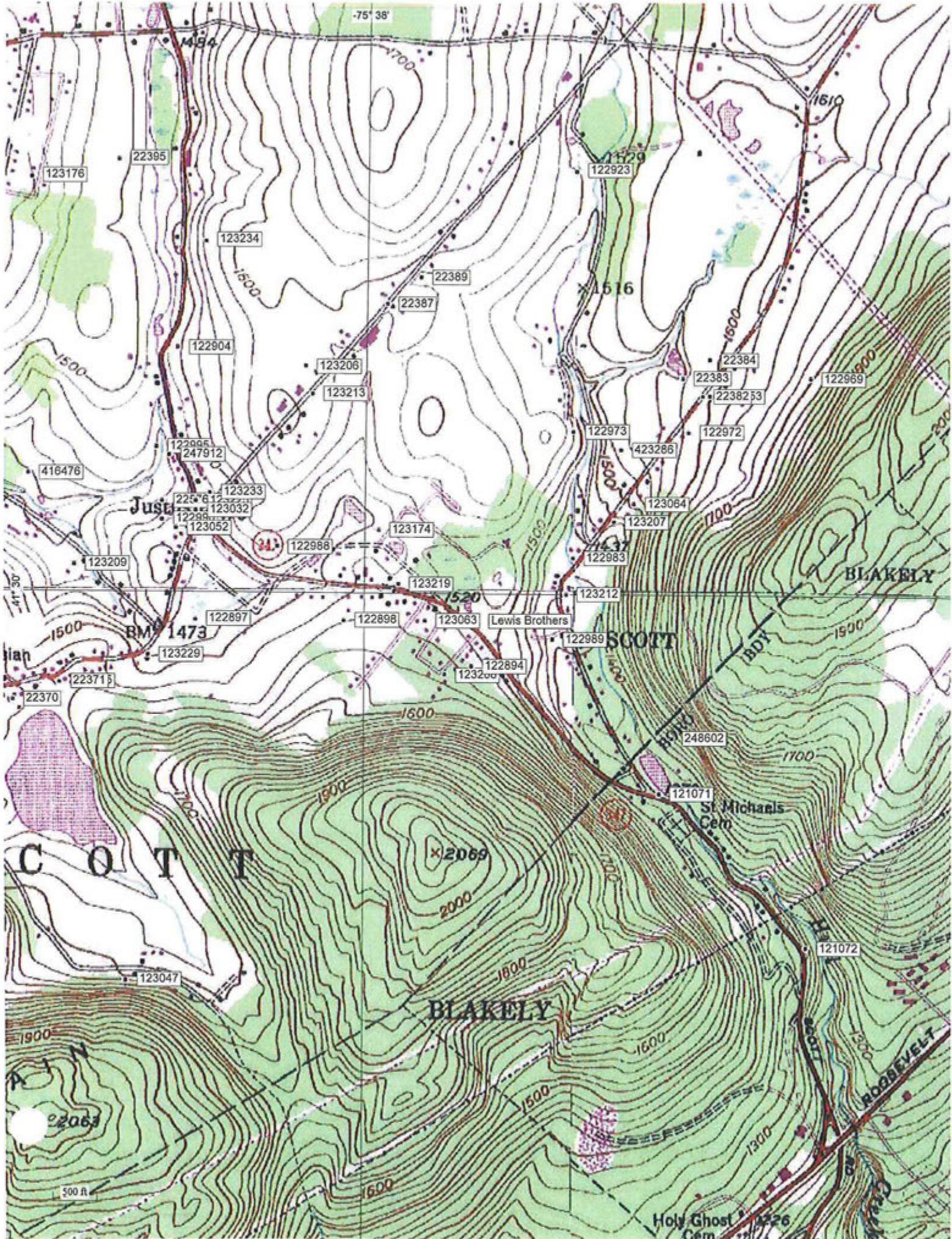
22370

248602

121071

123047

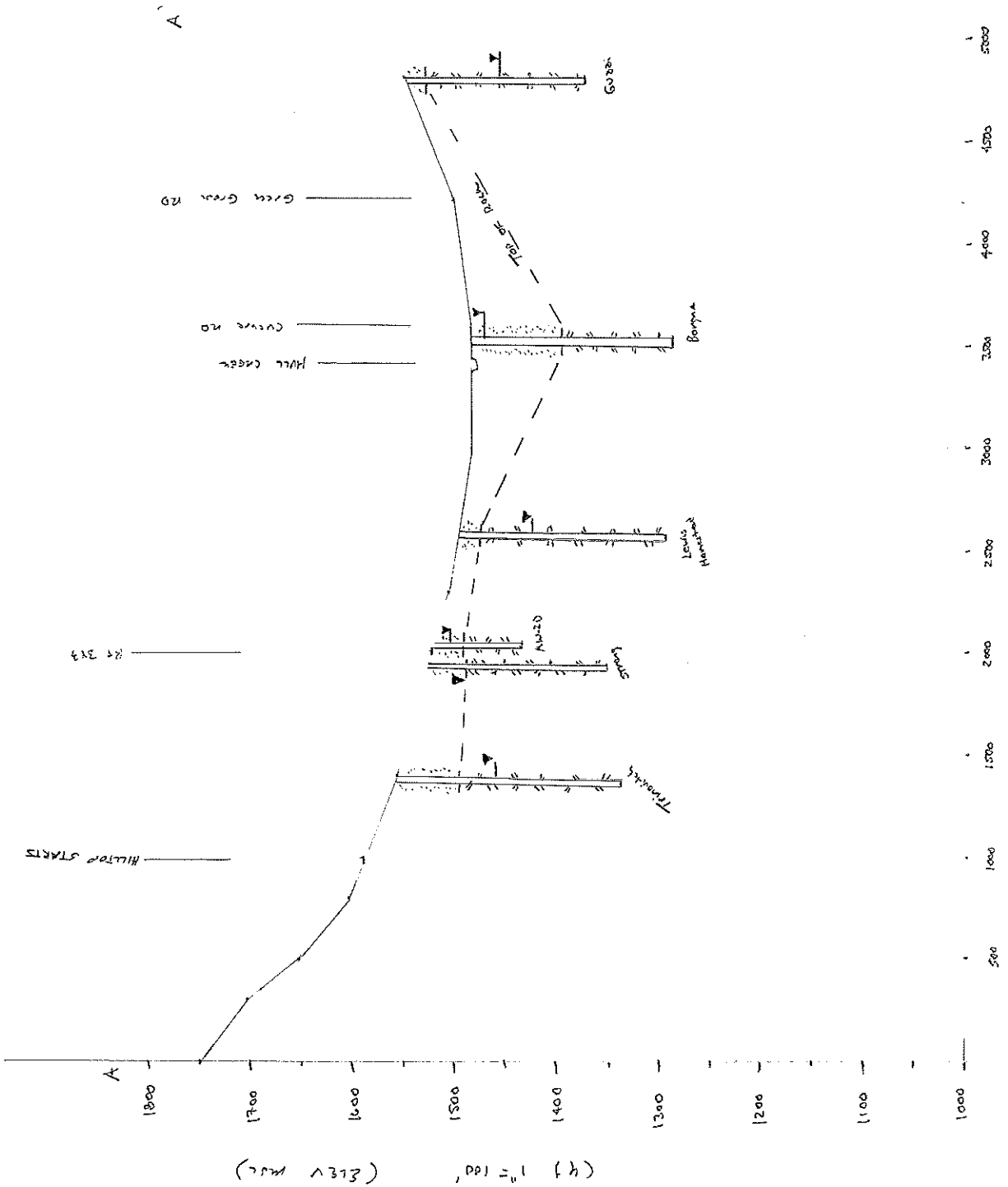
121072



APPENDIX B

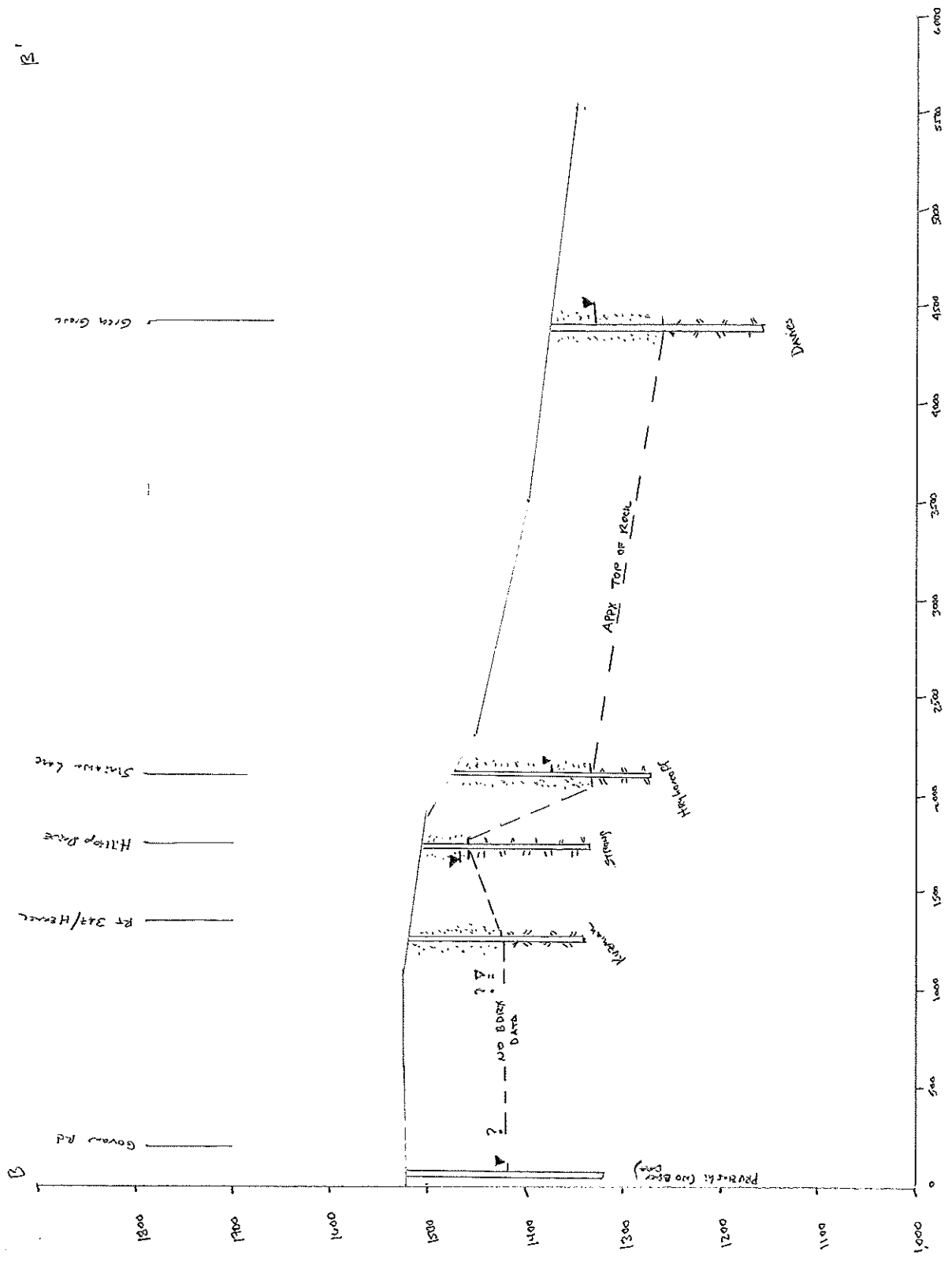
Geologic Cross Sections

CROSS SECTION A
 FACING NW ALONG
 X-ST HILLTOP



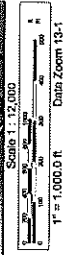
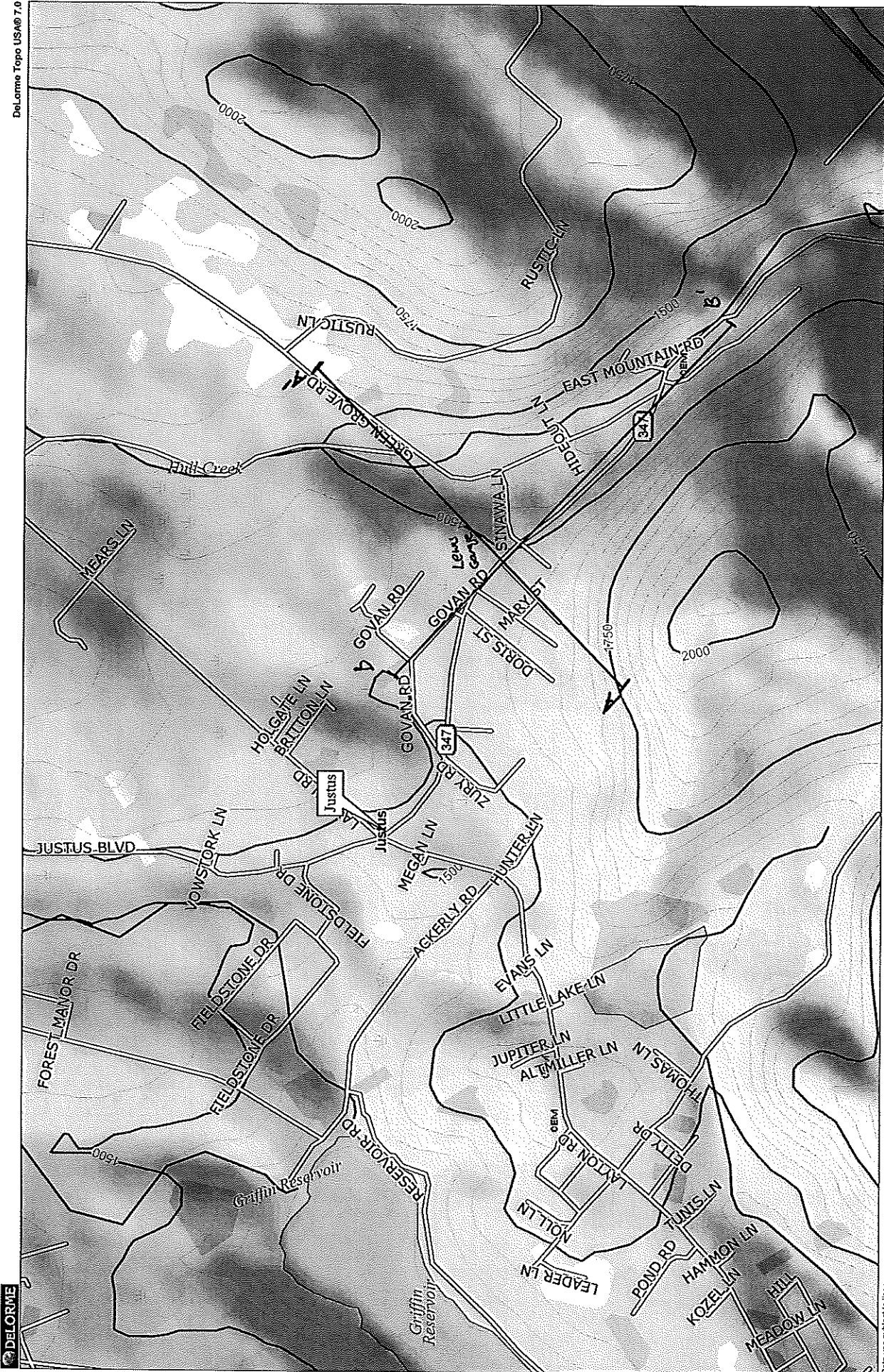
X = 1" = 500'

CROSS SECTION B
 FACING NE ALONG HILTOP
 X-ST RAVER 347



(X) 1" = 500'

1" = 100' (Elev. K56)



APPENDIX M

Monitoring Well Logs

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage

Date Started: March 12, 2008

Client: Lewis Brothers

Date Finished: March 12, 2008

Purpose: Shallow Groundwater Monitoring Well Installation

Contractor: Eichelbergers, Incorporated

Boring Number: MW1s

Driller: Nate Moyer

Job Number: 27058

Geologist: Martin Gilgallon, P.G.

Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		7:30	9:10	22.5'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1	12	Rec: 1.7'	0.0' - 2.0'	Old Asphalt	
---	0'-2'	55	PID: 0.0 ppm	Gray to dark gray coarse	Dry	
1---	(07:36)	51	No Odor	sand and rocks (fill material)	Hard Compaction	
---		50 / .4				
2---	SS-2	3	Rec: 1.8'	2.0' - 4.0'	Dry	
---	2'-4'	5	PID: 0.0 ppm	Red-brown silt with some		
3---	(07:48)	18	No Odor	clay, sub-rounded to round		
---		14		pebbles and cobbles		
4---	SS-3	12	Rec: 2.0'	4.0' - 6.0'	Dry	
---	4'-6'	20	PID: 0.0 ppm	Red-brown silt with some		
5---	(07:50)	32	No Odor	clay, pebbles & cobbles,		
---		22		change to dark gray		
6---	SS-4	7	Rec: 1.5'	sandstone boulders @ 5.0'		
---	6'-8'	9	PID: 0.0 ppm	6.0' - 8.0'	Dry	
7---	(08:00)	13	No Odor	Red-brown sand and silt		
---		32		with trace clay, sub-angular,		
8---	SS-5	14	Rec: 1.5'	sub-rounded pebbles and		
---	8'-10'	15	PID: 0.0 ppm	cobbles		
9---	(08:03)	25	No Odor	8.0' - 10.0'	Wet / Moist at	
---		50 / .2		Red-brown sand and silt	8.0' - 10.0'	
10---	SS-6	4	Rec: 2.0'	with abundant sandstone		
---	10'-12'	7	PID: 0.0 ppm	cobbles & pebbles, sandy		
11---	(08:15)	8	No Odor	near 10.0'		
---		12		10.0' - 12.0'	Damp / Moist	
12---	SS-7	9	Rec: 2.0'	Red-brown silt and clay with		
---	12'-14'	25	PID: 0.0 ppm	sub-rounded pebbles and		
13---	(08:19)	18	No Odor	cobbles		
---		23		12.0' - 14.0'	Very Tight	
14---	SS-8	17	Rec: 1.9'	Strong brown silt with sub-	Damp / Moist	
---	14'-16'	16	PID: 0.0 ppm	angular, sub-rounded		
15---	(08:23)	17	No Odor	pebbles, trace to no clay, no		
---		15		cobbles		
16---	SS-9	4	Rec: 0.8'	14.0' - 16.0'	Damp	
---	16'-18'	7	PID: 0.0 ppm	Strong brown to reddish-		
17---	(08:35)	9	No Odor	brown silt with trace clay,		
---		13		abundant sandstone pebbles		
18---	SS-10	8	Rec: 0.3'	& cobbles, sub-angular		
---	18'-20'	10	PID: 0.0 ppm	16.0' - 20.0'	Damp / Moist	
19---	(08:39)	12	No Odor	Strong brown to reddish-		
---		10		brown silt with trace clay,		
				cobbles & pebbles		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage	Date Started: March 12, 2008
Client: Lewis Brothers	Date Finished: March 12, 2008
Purpose: Shallow Groundwater Monitoring Well Installation	
Contractor: Eichelbergers, Incorporated	Boring Number: MW1s
Driller: Nate Moyer	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---	SS-11	8	Rec: 1.0'	20.0' - 22.0'	Saturated	
---	20'-22'	23	PID: 0.0 ppm	Red-brown sand with silt		
21---	(08:51)	50 / .6	No Odor	and abundant sub-angular, sub-rounded pebbles & cobbles		
---		--				
22---						

23---				Auger refusal at 22.5'		

24---						

25---						

26---						

27---						

28---						

29---						

30---						

31---						

32---						

33---						

34---						

35---						

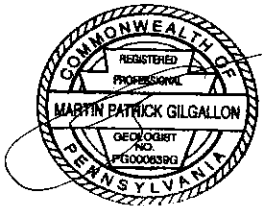
36---						

37---						

38---						

39---						

Log Prepared By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage

Date Started: March 10, 2008

Client: Lewis Brothers

Date Finished: March 10, 2008

Purpose: Shallow Groundwater Monitoring Well Installation

Contractor: Eichelbergers, Incorporated

Boring Number: MW-1A

Driller: Nate Moyer

Job Number: 27058

Geologist: Martin Gilgallon, P.G.

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	9:30	10:30	8.0'	Lithologic Description	Notes
---	SS-1	--	Rec: 1.5'		0.0' - 2.0'	Asphalt
---	0'-2'	2	PID: 0.0 ppm		Strong brown sand and silt,	Dry
1---	(09:55)	8	No Odor		gray mottles ~ 2.0'	
---		9				
2---	SS-2	8	Rec: 1.7'		2.0' - 4.0'	Dry
---	2'-4'	13	PID: 0.0 ppm		Tight brown silt with some	
3---	(09:57)	20	No Odor		clay and sub-angular	
---		30			pebbles, sandstone	
4---	SS-3	18	Rec: 1.0'		fragments ~ 3.5'	
---	4'-6'	20	PID: 0.0 ppm		4.0' - 6.0'	Dry
5---	(10:05)	16	No Odor		Brown sand with silt and	Loose
---		24			angular sandstone fragments	
6---	SS-4	5	Rec: 1.6'		6.0' - 8.0'	Dry / Damp
---	6'-8'	13	PID: 0.0 ppm		Tight reddish-brown silt with	Very Hard at 8.0'
7---	(10:11)	23	No Odor		trace clay and sub-rounded	
---		40 / .3			pebbles, change to reddish-	
8---					brown sand and silt with	
---					angular cobbles	
9---						

10---					Auger refusal at 8.0'	

11---						

12---						

13---						

14---						

15---						

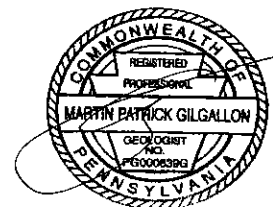
16---						

17---						

18---						

19---						

Log Prepared By:
Martin Gilgallon, P.G.



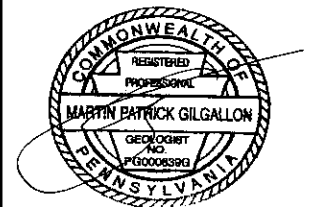
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage	Date Started: March 10, 2008
Client: Lewis Brothers	Date Finished: March 10, 2008
Purpose: Shallow Groundwater Monitoring Well Installation	
Contractor: Eichelbergers, Incorporated	Boring Number: MW-1B
Driller: Nate Moyer	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1 0'-2'	-- 11	Rec: 1.3' PID: 0.0 ppm	0.0' - 2.0' Subbase, change to dark gray	Asphalt Dry	
1---	(14:22)	10	No Odor	then reddish-brown tight silt and sand with sandstone fragments	Dry	
2---	SS-2 2'-4'	6 15	Rec: 1.6' PID: 0.0 ppm	2.0' - 4.0'	Dry	
3---	(14:28)	13	No Odor	Reddish-brown sand and silt with sandstone fragments	Dry	
4---	SS-3 4'-6'	9 11	Rec: 1.4' PID: 0.0 ppm	4.0' - 6.0'	Dry	
5---	(14:32)	16	No Odor	Reddish-brown sand and silt with gray mottles & abundant sub-angular - angular sandstone cobbles & pebbles	Dry	
6---	SS-4 6'-8'	4 12	Rec: 1.6' PID: 0.0 ppm	6.0' - 8.0'	Dry	
7---	(14:38)	12	No Odor	Reddish-brown sand and silt with trace clay & angular pebbles & cobbles	Dry	
8---	SS-5 8'-10'	14 16	Rec: 1.0' PID: 0.0 ppm	8.0' - 10.0'	Dry	
9---	(14:41)	25	Slight Odor	Reddish-brown sand and silt with abundant sub- rounded to sub-angular cobbles & pebbles	Dry	
10---	SS-6 10'-12'	5 10	Rec: 1.7' PID: 0.0 ppm	10.0' - 12.0'	Dry	
11---	(14:50)	11	No Odor	Reddish-brown silt with some clay & abundant sub-rounded sandstone cobbles & pebbles	Dry	
12---	SS-7 12'-14'	17 32	Rec: 0.4' PID: 0.0 ppm	12.0' - 14.0'	Dry	
13---	(14:53)	25 / .2	No Odor	Reddish-brown silt and some clay with gray sandstone	Dry	
14---				Auger refusal at 14.0'		
15---						
16---						
17---						
18---						
19---						

Log Prepared By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage

Date Started: March 10, 2008

Client: Lewis Brothers

Date Finished: March 10, 2008

Purpose: Shallow Groundwater Monitoring Well Installation

Contractor: Eichelbergers, Incorporated

Boring Number: MW-2s

Driller: Nate Moyer

Job Number: 27058

Geologist: Martin Gilgallon, P.G.

Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		10:41	13:45	30.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1	--	Rec: 0.5'	0.0' - 2.0'	Asphalt	
---	0'-2'	17	PID: 1.8 ppm	Gravel and sand	Dry	
1---	(10:46)	10	Odors			
---		11				
2---	SS-2	8	Rec: 1.6'	2.0' - 4.0'	Dry	
---	2'-4'	12	PID: 0.0 ppm	Tight reddish-brown silt with		
3---	(10:48)	13	Odors	rounded and angular		
---		13		pebbles / cobbles		
4---	SS-3	8	Rec: 2.0'	4.0' - 6.0'	Dry	
---	4'-6'	10	PID: 0.0 ppm	Tight reddish-brown silt with		
5---	(10:55)	14	Odors	sand & angular pebbles /		
---		15		cobbles, soft discolored bed		
6---	SS-4	5	Rec: 2.0'	at 5.2' - 5.6'		
---	6'-8'	9	PID: 0.0 ppm at 6'	6.0' - 8.0'	Dry	
7---	(11:01)	13	196 ppm at 7.0'	Tight reddish-brown silt with		
---		25	657 ppm at 8.0'	trace clay & angular pebbles,		
8---	SS-5	14	Rec: 2.0'	sandstone fragments at 8.0'		
---	8'-10'	17	PID: 3,100 ppm at	8.0' - 10.0'	Wet 8.0' - 9.0'	
9---	(11:04)	16	8.5'	Reddish-brown silt and sand	Moist 9.0' - 10.0'	
---		19	1,600 ppm at 9.5'	with abundant angular		
10---	SS-6	7	Rec: 2.0'	pebbles / cobbles		
---	10'-12'	15	PID: 194 ppm at	10.0' - 12.0'	Dry	
11---	(11:14)	13	10.5'	Tight reddish-brown silt with		
---		13	0.0 ppm at 11.5'	clay & abundant rock		
12---	SS-7	12	Rec: 0.8'	fragments		
---	12'-14'	16	PID: 0.0 ppm	12.0' - 14.0'	Moist	
13---	(11:18)	16	Slight Odor	Reddish-brown silt with clay	Poor Recovery	
---		19		& abundant rock fragments		
14---	SS-8	11	Rec: 0.5'	14.0' - 16.0'	Moist	
---	14'-16'	15	PID: 38 ppm	Reddish brown silt & clay	Poor Recovery	
15---	(11:26)	18	Odors	with angular pebbles		
---		25				
16---	SS-9	15	Rec: 1.4'	16.0' - 18.0'	Wet ~ 18.0'	
---	16'-18'	13	PID: 0.0 ppm	Reddish-brown clay, silt &		
17---	(11:35)	11	Very Slight Odor	sand with angular pebbles /		
---		12		cobbles		
18---	SS-10	9	Rec: 1.6'	18.0' - 20.0'	Wet 18.0' - 19.5'	
---	18'-20'	15	PID: 0.0 ppm	Reddish-brown sand, silt &		
19---	(11:37)	76	Slight Odor	clay with sub-angular		
---		40		pebbles / cobbles, tight		
				gray-brown silt ~ 19.5'		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage	Date Started: March 10, 2008
Client: Lewis Brothers	Date Finished: March 10, 2008
Purpose: Shallow Groundwater Monitoring Well Installation	
Contractor: Eichelbergers, Incorporated	Boring Number: MW-2s
Driller: Nate Moyer	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---	SS-11	8	Rec: 1.0'	20.0' - 22.0'	Wet at Top	
---	20'-22'	14	PID: 3,000 ppm	Reddish-brown sand and silt with angular pebbles / cobbles		
21---	(11:51)	12	Strong Odor			
---		14				
22---	SS-12	8	Rec: 0.8'	22.0' - 24.0'	Wet	
---	22'-24'	8	PID: 1,012 ppm	Reddish-brown sand and silt with some clay and abundant angular pebbles / cobbles		
23---	(12:00)	12	Strong Odor			
---		10				
24---	SS-13	3	Rec: N/A	24.0' - 26.0'	Wet	
---	24'-26'	6	PID: N/A	Few angular dark gray sandstone cobbles	Sheen	
25---	(12:06)	22	Odors			
---		19				
26---	SS-14	7	Rec: 1.0'	26.0' - 28.0'	Wet	
---	26'-28'	10	PID: 0.0 ppm	Gray-brown medium / fine sand with sub-angular to sub-rounded cobbles		
27---	(12:12)	11	Odors			
---		14				
28---	SS-15	11	Rec: 2.0'	28.0' - 30.0'	Wet	
---	28'-30'	13	PID: 0.0 ppm	Gray coarse-medium sand with abundant sub-angular to sub-rounded sandstone cobbles		
29---	(12:19)	14				
---		21				
30---						

31---						

32---						

33---						

34---						

35---						

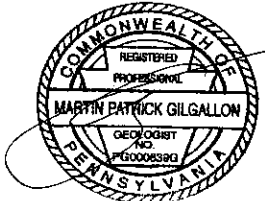
36---						

37---						

38---						

39---						

Log Prepared By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage

Date Started: March 11, 2008

Client: Lewis Brothers

Date Finished: March 11, 2008

Purpose: Shallow Groundwater Monitoring Well Installation

Contractor: Eichelbergers, Incorporated

Boring Number: MW-3s

Driller: Nate Moyer

Job Number: 27058

Geologist: Martin Gilgallon, P.G.

Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		7:24	9:10	28.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1 0'-2'	-- 15	Rec: 1.6' PID: 0.0 ppm	0.0' - 2.0' Dark gray sand with rock fragments	Asphalt Dry	
1---	(07:33)	11	Odors			
---		10				
2---	SS-2 2'-4'	6 11	Rec: 2.0' PID: 0.0 ppm	2.0' - 4.0' Dark gray sand with rock fragments, change to	Dry	
3---	(07:37)	17	Odors	reddish-brown silt & clay with		
---		25		abundant rock fragments		
4---	SS-3 4'-6'	11 16	Rec: 1.6' PID: 0.0 ppm	4.0' - 6.0'	Dry	
---	(07:44)	25	Slight Odor	Reddish-brown silt / sand		
---		22		with trace clay & abundant		
6---	SS-4 6'-8'	8 12	Rec: 2.0' PID: 2,600 ppm at	sub-angular cobbles/pebbles	Dry	
---	(07:50)	17	6.5'	6.0' - 8.0'		
---		22	1,600 ppm at 7.5'	Tight reddish-brown silt with		
8---	SS-5 8'-10'	22 25	Rec: 1.8' PID: 775 ppm at	trace clay & sub-angular		
---	(07:53)	22	8.5'	pebbles / cobbles	Moist	
---		20	2,300 ppm at 9.5'	8.0' - 10.0'		
10---	SS-6 10'-12'	5 9	Rec: 1.7' PID: 340 ppm at	Reddish-brown silt, trace clay, change to silty sand with		
---	(08:05)	17	11.0'	abundant angular cobbles	Dry	
---		15	Odors	10.0' - 12.0'		
12---	SS-7 12'-14'	13 14	Rec: 2.0' PID: 1,150 ppm at	Reddish-brown silt with trace clay & sub-rounded pebbles		
---	(08:09)	16	12.2'	& cobbles, change to tight		
---		16	335 ppm at 13.5'	reddish silt with trace clay &		
14---	SS-8 14'-16'	11 13	Rec: 2.0' PID: 0.0 ppm	angular pebbles at 11.5'	Dry	
---	(08:14)	12	No Odor	12.0' - 14.0'		
---		14		Tight reddish-brown silt with		
16---	SS-9 16'-18'	3 6	Rec: 1.5' PID: 0.0 ppm	trace clay & sub-angular /	Damp	
---	(08:22)	7	No Odor	sub-rounded pebbles		
---		10		14.0' - 16.0'		
18---	SS-10 18'-20'	7 12	Rec: 2.0' PID: 0.0 ppm at	Reddish-brown silt with some clay & sub-angular / sub-		
---	(08:25)	10	18.2'	rounded pebbles & cobbles	Moist	
---		15	156 ppm at 19.5'	16.0' - 20.0'		
---				Reddish-brown silt & clay grade into reddish-brown		
---				sand & silt with clay &		
---				sub-angular / sub-rounded pebbles		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage

Date Started: March 11, 2008

Client: Lewis Brothers

Date Finished: March 11, 2008

Purpose: Shallow Groundwater Monitoring Well Installation

Contractor: Eichelbergers, Incorporated

Boring Number: MW-3s

Driller: Nate Moyer

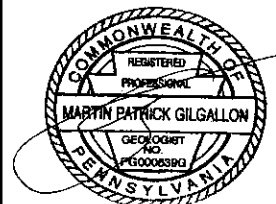
Job Number: 27058

Geologist: Martin Gilgallon, P.G.

Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20--	SS-11	6	Rec: 1.0'	20.0' - 22.0'	Saturated	
--	20'-22'	10	PID: 3,000 ppm	Coarse sand and gravel,		
21--	(08:37)	8		change to reddish-brown		
--		10		silt with cobbles and		
22--	SS-12	13	Rec: 1.7'	sub-rounded pebbles	Wet	
--	22'-24'	52	PID: 1,700 ppm at	22.0' - 24.0'		
23--	(08:43)	19	23.5'	Reddish-brown sand and		
--		32	Strong Odor	gravel with angular and		
24--	SS-13	11	Rec: 1.0'	sub-rounded pebbles and		
--	24'-26'	16	PID: 242 ppm	cobbles with sandstone		
25--	(08:54)	10	Odors	cobbles at 24.0'		
--		12		24.0' - 26.0'	Saturated	
26--	SS-14	11	Rec: 0.5'	Gray sand and silt with		
--	26'-28'	11	PID: 398 ppm	sub-rounded pebbles		
27--	(09:00)	12	Strong Odors	26.0' - 28.0'	Saturated	
--		14		Gray sand and silt		
28--						
--						
29--						
--						
30--						
--						
31--						
--						
32--						
--						
33--						
--						
34--						
--						
35--						
--						
36--						
--						
37--						
--						
38--						
--						
39--						
--						

Log Prepared By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage

Date Started: March 11, 2008

Client: Lewis Brothers

Date Finished: March 11, 2008

Purpose: Shallow Groundwater Monitoring Well Installation

Contractor: Eichelbergers, Incorporated

Boring Number: MW-4s

Driller: Nate Moyer

Job Number: 27058

Geologist: Martin Gilgallon, P.G.

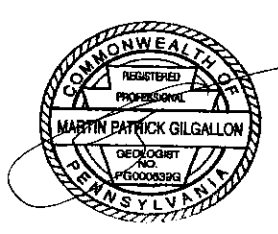
Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		10:30	12:25	28.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
	SS-1	8	Rec: 1.7'	0.0' - 2.0'	Dirt Surface	
---	0'-2'	6	PID: 0.0 ppm	Mixed fill, change to dark		
1---	(10:48)	5	No Odor	brown silt with clay ~ 1.2'	Damp	
---		4				
2---	SS-2	4	Rec: 2.0'	2.0' - 4.0'	Dry	
---	2'-4'	10	PID: 0.0 ppm	Brown silt with gray mottles,		
3---	(10:52)	18	No Odor	change to reddish-brown		
---		20		silt, sand with trace clay and		
4---	SS-3	14	Rec: 1.2'	abundant angular sandstone		
---	4'-6'	21	PID: 0.0 ppm	pebbles and cobbles		
5---	(10:55)	32	No Odor	4.0' - 6.0'	Dry	
---		31		Tight reddish-brown silt and		
6---	SS-4	5	Rec: 1.8'	sand with trace clay &		
---	6'-8'	10	PID: 0.0 ppm	abundant angular sandstone		
7---	(11:05)	10	No Odor	cobbles and pebbles		
---		13		6.0' - 8.0'	Dry	
8---	SS-5	8	Rec: 2.0'	Reddish brown sand and		
---	8'-10'	12	PID: 0.0 ppm	silt with sub-rounded pebbles		
9---	(11:08)	16	No Odor	8.0' - 10.0'	Dry	
---		22		Reddish-brown sandy silt with		
10---	SS-6	4	Rec: 2.0'	trace clay, sub-rounded		
---	10'-12'	9	PID: 0.0 ppm	pebbles and cobbles		
11---	(11:17)	16	No Odor	10.0' - 12.0'	Dry	
---		15		Reddish-brown silt with trace		
12---	SS-7	12	Rec: 2.0'	clay & sub-rounded pebbles		
---	12'-14'	17	PID: 0.0 ppm	and cobbles		
13---	(11:20)	26	No Odor	12.0' - 14.0'	Wet	
---		25		Reddish-brown silt with some		
14---	SS-8	14	Rec: 1.4'	clay, sub-rounded to sub-		
---	14'-16'	14	PID: 0.0 ppm	angular pebbles & cobbles		
15---	(11:25)	25	No Odor	14.0' - 16.0'	Wet	
---		21		Reddish-brown silt with sand		
16---	SS-9	6	Rec: 1.7'	and trace clay, sub-angular		
---	16'-18'	8	PID: 0.0 ppm	pebbles, change to reddish-		
17---	(11:36)	15	Odors	brown sand and clay with		
---		20		cobbles		
18---	SS-10	13	Rec: 1.0'	16.0' - 20.0'	Wet	
---	18'-20'	16	PID: 0.0 ppm	Gray, brown and reddish-		
19---	(11:44)	37	Slight odors	brown silt with sand and		
---		33		trace clay, sub-rounded		
				pebbles & pulverized cobbles		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage	Date Started: March 11, 2008
Client: Lewis Brothers	Date Finished: March 11, 2008
Purpose: Shallow Groundwater Monitoring Well Installation	
Contractor: Eichelbergers, Incorporated	Boring Number: MW-4s
Driller: Nate Moyer	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---	SS-11	5	Rec: 1.0'	20.0' - 22.0'	Wet / Moist	
---	20'-22'	8	PID: 0.0 ppm	Reddish-brown clay and silt		
21---	(11:54)	13	Slight Odor	with sub-rounded pebbles		
---		15			Spoon Wet	
22---	SS-12	8	Rec: N/A	22.0' - 24.0'		
---	22'-24'	5	PID: N/A	No Recovery		
23---	(12:00)	6	Odors on Water in		Wet	
---		6	Shoe			
24---	SS-13	17	Rec: 0.5'	24.0' - 26.0'		
---	24'-26'	15	PID: 0.0 ppm	Gray sand and trace clay with	Wet	
25---	(12:04)	9	Distinct Odor	sub-rounded cobbles		
---		10				
26---	SS-14	3	Rec: N/A	26.0' - 28.0'	Wet	
---	26'-28'	3	PID: N/A	No Recovery		
27---	(12:14)	4	Odors on Water in			
---		8	Shoe			
28---						

29---						

30---						

31---						

32---						

33---						

34---						

35---						

36---						

37---						

38---						

39---						

Log Prepared By:
Martin Gilgallon, P.G.

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage

Date Started: March 11, 2008

Client: Lewis Brothers

Date Finished: March 11, 2008

Purpose: Shallow Groundwater Monitoring Well Installation

Contractor: Eichelbergers, Incorporated

Boring Number: MW-5s

Driller: Nate Moyer

Job Number: 27058

Geologist: Martin Gilgallon, P.G.

Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		14:00	15:36	23.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
	SS-1	9	Rec: 1.8'	0.0' - 2.0'	Dirt Surface	
---	0'-2'	14	PID: 0.0 ppm	Mixed fill material-sand,	Dry	
1---	(14:15)	12	No Odor	coal, red shale, sandstone		
---		11				
2---	SS-2	5	Rec: 0.4'	2.0' - 4.0'	Dry	
---	2'-4'	4	PID: 0.0 ppm	Mixed fill material, sandstone		
3---	(14:17)	4	No Odor	cobbles and coarse gray		
---		8		sand		
4---	SS-3	6	Rec: 2.0'	4.0' - 6.0'	Dry	
---	4'-6'	10	PID: 0.0 ppm	Mixed fill material, change to		
5---	(14:22)	15	No Odor	reddish-brown tight silt with		
---		19		sand and trace clay,		
6---	SS-4	5	Rec: 2.0'	sandstone pebbles / cobbles		
---	6'-8'	9	PID: 0.0 ppm	6.0' - 8.0'	Dry	
7---	(14:29)	13	No Odor	Gray-brown silt with trace clay	Tight	
---		17		and abundant angular		
8---	SS-5	14	Rec: 1.8'	pebbles and cobbles		
---	8'-10'	14	PID: 0.0 ppm	8.0' - 10.0'	Dry	
9---	(14:35)	16	No Odor	Reddish-brown silt with trace	Tight	
---		20		clay & abundant angular		
10---	SS-6	22	Rec: 2.0'	pebbles and cobbles		
---	10'-12'	16	PID: 0.0 ppm	10.0' - 12.0'	Dry	
11---	(14:44)	19	No Odor	Tight silt with sand & trace		
---		18		clay, abundant sub-rounded		
12---	SS-7	36	Rec: 1.0'	to sub-angular pebbles and		
---	12'-14'	33	PID: 0.0 ppm	cobbles		
13---	(14:52)	28	No Odor	12.0' - 14.0'	Dry	
---		25		Gray sandstone cobbles with		
14---	SS-8	9	Rec: 1.5'	gray-brown sand matrix		
---	14'-16'	11	PID: 0.0 ppm	14.0' - 16.0'	Moist ~ 16.0'	
15---	(15:01)	10	No Odor	Brown silt and clay with		
---		13		sub-rounded to sub-angular		
16---	SS-9	13	Rec: 0.3'	pebbles and cobbles		
---	16'-18'	11	PID: 0.0 ppm	16.0' - 18.0'	Moist	
17---	(15:05)	12	No Odor	Brown silt and clay with		
---		14		rock fragments		
18---	SS-10	9	Rec: 1.0'	18.0' - 20.0'	Moist	
---	18'-20'	9	PID: 0.0 ppm	Brown silt and clay with		
19---	(15:11)	17	No Odor	sandstone cobbles		
---		21				

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Brothers Garage	Date Started: March 11, 2008
Client: Lewis Brothers	Date Finished: March 11, 2008
Purpose: Shallow Groundwater Monitoring Well Installation	
Contractor: Eichelbergers, Incorporated	Boring Number: MW-5s
Driller: Nate Moyer	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---	SS-11	4	Rec: 1.0'	20.0' - 22.0'	Wet	
---	20'-22'	6	PID: 0.0 ppm	Gray sand and silt with abundant sub-rounded pebbles and cobbles		
21---	(15:20)	11	No Odor			
---		22				
22---	SS-12	10	Rec: 1.0'	22.0' - 24.0'	Wet	
---	22'-24'	20	PID: 0.0 ppm	Gray sand and silt with sub-rounded cobbles		
23---	(15:25)	50 / .2	No Odor			
---		--				
24---				Auger refusal at 23.0'		

25---						

26---						

27---						

28---						

29---						

30---						

31---						

32---						

33---						

34---						

35---						

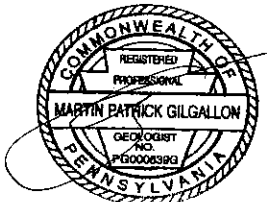
36---						

37---						

38---						

39---						

Log Prepared By:
Martin Gilgallon, P.G.



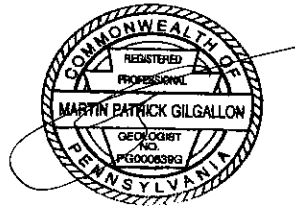
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 18, 2008
Client: Ruth Lewis	Date Finished: June 18, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-6s
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:30	11:00	20.0'	Lithologic Description	Notes
---					0.0' - 3.0'	Asphalt surface
1---					Asphalt surface with gravel base and fill material	Moist
2---						
3---					3.0' - 20.0'	Dry
4---					Brown sand and silt with some clay and abundant sandstone cobbles and pebbles	
5---						
6---						
7---						
8---						
9---						Dry
10---						
11---						
12---						
13---						
14---						
15---						
16---						
17---						Encountered water at 18.0' below grade. Water rose quickly in the test boring. Boring collapsed at 17.0'.
18---						
19---						

PID: 0.0 ppm



Log Prepared By:
Martin Gilgallon, P.G.

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 21, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 21, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-7s
Driller: Chris Kurtz	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	7:45	9:00	32.0'	Lithologic Description	Notes
---					0.0' - 20.0'	Asphalt Surface
1--					Asphalt with gravel base, change to brown silt and sand with abundant sandstone cobbles and pebbles	Drilled to 10" diameter roller bit to TD Dry 0.0' to 20.0'

2--						

3--						

4--						

5--				PID: 0.0 ppm		

6--						

7--						

8--						

9--						

10--				PID: 0.0 ppm		

11--						

12--						

13--						

14--						

15--				PID: 0.0 ppm		

16--						

17--						

18--						

19--						
---				PID: 0.0 ppm		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 21, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 21, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-7s
Driller: Chris Kurtz	Job Number: 27058.01
Inspector: Dean Cruciani	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	7:45	9:00	32.0'	Lithologic Description	Notes
20---			PID: 0.0 ppm		21.0' - 24.0' Brown sand and silt with some clay and abundant sandstone pebbles, cobbles and boulders	Wet @ 22.0'. Difficult to tell exact depth to water bearing zone using air rotary

21---						

22---						

23---						

24---						

25---						

26---						

27---						

28---						

29---						

30---						

31---						

32---						

33---						

34---						

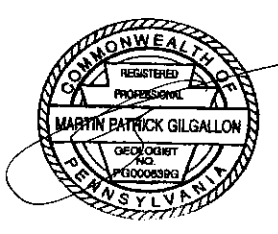
35---						

36---						

37---						

38---						

39---						

					End of boring @ 32.0'	Set well at 28.0' due to the collapse of the well borehole.
					Log Approved By: Martin Gilgallon, P.G.	

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 20, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 20, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-8s
Driller: Bob Trimble	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1	--	Rec: 1.4'	0.0' - 2.0'	Asphalt Surface	
---	0'-2'	5	PID: 0.0 ppm	Asphalt, change to brown	Drill 6.25" ID HSA	
1---	(08:24)	6		silt and sand with sub-	to TD	
---		22		rounded red shale and		
2---	SS-2	10	Rec: 1.6'	sandstone pebbles		
---	2'-4'	9	PID: 0.0 ppm	2.0'-4.0'	Dry	
3---	(08:30)	8		Brown silt and sand with	No Odor	
---		10		subrounded red shale and	No Visual	
4---	SS-3	12	Rec: 1.6'	sandstone pebbles		
---	4'-6'	5	PID: 0.0 ppm	4.0' - 6.0'	Dry	
5---	(08:49)	11		Brown silt and sand with	No Odor	
---		18		subrounded red shale and	No Visual	
6---	SS-4	14	Rec: 1.9'	sandstone pebbles		
---	6'-8'	8	PID: 0.0 ppm	6.0' - 8.0'	Dry	
7---	(08:52)	9		Brown silt and sand with	No Odor	
---		13		subrounded red shale and	No Visual	
8---	SS-5	14	Rec: 1.9'	sandstone pebbles		
---	8'-10'	3	PID: 0.0 ppm	8.0' - 10.0'	Dry	
9---	(09:52)	5		Brown silt and sand with	No Odor	
---		14		subrounded red shale and	No Visual	
10---	SS-6	12	Rec: 1.7'	sandstone pebbles		
---	10'-12'	4	PID: 0.0 ppm	10.0' - 12.0'	Wet 12.0' - 15.5'	
11---	(09:58)	4		Brown to reddish brown silt	No Odor	
---		9		and sand with some clay and	No Visual	
12---	SS-7	29	Rec: 1.9'	red shale pebbles-cobbles		
---	12'-14'	11	PID: 0.0 ppm	12.0' - 14.0'	Wet 12.0' - 15.5'	
13---	(10:04)	17		Brown to reddish brown silt	No Odor	
---		21		and sand with some clay and	No Visual	
14---	SS-8	14	Rec: 1.6'	red shale pebbles-cobbles		
---	14'-16'	29	PID: 0.0 ppm	14.0' - 16.0'	Wet 12.0' - 15.5'	
15---	(10:17)	19		Brown silt and sand with	No Odor	
---		9		some clay and red shale	No Visual	
16---	SS-9	9	Rec: 1.7'	pebbles-cobbles		
---	16'-18'	10	PID: 0.0 ppm	16.0' - 18.0'	Moist 17.0' - 17.5'	
17---	(10:19)	13		Brown silt and sand with		
---		25		some clay and red shale		
18---	SS-10	15	Rec: 1.5'	pebbles-cobbles		
---	18'-20'	11	PID: 0.0 ppm	18.0' - 20.0'	Wet at 20.0'	
19---	(10:37)	8		Brown silt and sand with	No Odor	
---		11		some clay and red shale	No Visual	
				pebbles-cobbles		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 20, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 20, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-8s
Driller: Bob Trimble	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:00	13:40	24.0'	Lithologic Description	Notes
20---	SS-11	11	Rec: 1.3'		20.0' - 22.0'	Dry
---	20'-22'	8	PID: 0.0 ppm		Brown silt and sand with	No Odor
21---	(10:43)	14			some clay and red shale	No Visual
---		21			and sandstone pebbles-	
22---					cobbles	
---					22.0' - 24.0'	Drilled test boring to
23---					Brown silt and sand with	24.0' via auger. No
---					some clay and red shale	split spoon sample
24---					and sandstone pebbles-	collected from this
---					cobbles	interval.
25---						
---					End of boring @ 24.0'	
26---						

27---						

28---						

29---						

30---						

31---						

32---						

33---						

34---						

35---						

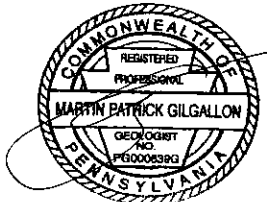
36---						

37---						

38---						

39---						

Log Approved By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 12, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 20, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9s
Driller: Bob Trimble / Chris Kurtz	Job Number: 27058.08
Inspector: Dean Cruciani / Martin Gilgallon, P.G.	Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		14:05	17:00	38.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
	SS-1	--	Rec: 1.0'	0.0' - 2.0'	Asphalt Surface	
---	0'-2'	3	PID: 0.0 ppm	Asphalt, change to mixed		
1---	(14:05)	6		brown sand and gravel	Drill 6.25" ID HSA to	
---		4		(modified)	refusal @ 28.0'	
2---	SS-2	3	Rec: 1.1'	2.0' - 4.0'	Complete drilling to	
---	2'-4'	3	PID: 0.0 ppm	Gravel to 2.5', change to	TD with 10" roller bit	
3---	(14:10)	3		brown to reddish brown	via air rotary	
---		6		sand with some clay and		
4---	SS-3	9	Rec: 1.3'	subrounded sandstone and		
---	4'-6'	15	PID: 0.0 ppm	shale pebbles		
5---	(14:16)	18		4.0' - 6.0'	Dry	
---		25		Brown to reddish brown	No Odor	
6---	SS-4	10	Rec: 0.9'	sand with some clay and	No Visual	
---	6'-8'	14	PID: 0.0 ppm	subrounded sandstone and		
7---	(14:22)	16		shale pebbles		
---		32		6.0' - 8.0'	Dry	
8---	SS-5	22	Rec: 1.3'	Brown to reddish brown	No Odor	
---	8'-10'	20	PID: 0.0 ppm	sand with some clay and	No Visual	
9---	(14:35)	21		subrounded sandstone and		
---		19		shale pebbles		
10---	SS-6	16	Rec: 1.2'	8.0' - 10.0'	Dry	
---	10'-12'	25	PID: 0.0 ppm	Brown sandy clay with	No Odor	
11---	(14:40)	19		sub-rounded sandstone and	No Visual	
---		25		red shale pebbles		
12---	SS-7	13	Rec: 2.0'	10.0' - 12.0'	Dry	
---	12'-14'	31	PID: 0.0 ppm	Cobble at 11.5'	No Odor	
13---	(14:52)	33			No Visual	
---		23				
14---	SS-8	--	Rec: 1.1'	14.0' - 16.0'	Dry	
---	14'-16'	--	PID: 0.0 ppm	Reddish brown to brown	No Odor	
15---	(15:00)	--		sandy silt and clay with	No Visual	
---		7		sandstone cobbles and		
16---	SS-9	16	Rec: 1.2'	sub-rounded pebbles		
---	16'-18'	10	PID: 0.0 ppm	16.0' - 18.0'	Moist at 19.5'	
17---	(15:08)	19		Sandstone cobbles to 18.0' -	No Odor	
---		12		19.0', change to brown sand	No Visual	
18---	SS-10	19	Rec: 1.1'	and sandstone fragments		
---	18'-20'	23	PID: 0.0 ppm	19.0' - 20.0'		
19---	(15:35)	26				
---		19				

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 12, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 20, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9s
Driller: Bob Trimble	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		14:05	17:00	38.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---	SS-11	22	Rec: 0.9'	20.0' - 22.0'	Dry	
---	20'-22'	10	PID: 0.0 ppm	Brown silty sand with	No Odor	
21---	(15:50)	10		sandstone cobbles (sub-	No Visual	
---		12		rounded sandstone and red		
22---	SS-12	12	Rec: 2.0'	shale)	Dry	
---	22'-24'	14	PID: 0.0 ppm	22.0' - 24.0'	No Odor	
23---	(15:57)	14		Brown silty sand with	No Visual	
---		12		sandstone cobbles (sub-		
24---	SS-14	5	Rec: 0.9'	rounded sandstone and red	Dry	
---	24'-26'	6	PID: 0.0 ppm	shale)	No Odor	
25---	(16:27)	8		24.0' - 26.0'	No Visual	
---		16		Brown silty sand with		
26---	SS-15	9	Rec: 1.3'	sandstone cobbles (sub-	Dry	
---	26'-28'	9	PID: 0.0 ppm	rounded sandstone and red	No Odor	
27---	(16:34)	14		shale)	No Visual	
---		50 / .3		26.0' - 28.0'	Wet at 27.0'	
28---				Sandstone cobbles at 27.5'	No Odor	
---				Sandstone boulder at 28.0'	No Visual	
29---						

30---				28.0' - 38.0'	Wet 28.0' - 38.0'	
---				Interbedded brown to reddish		
31---				brown sand, silt and clay		
---				with abundant sub-rounded		
32---				sandstone pebbles, cobbles		
---				and boulders		
33---						

34---						

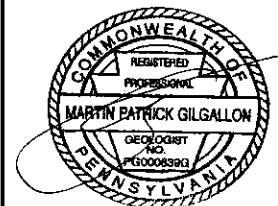
35---						

36---						

37---						

38---				End of boring @ 38.0'		

39---				Log Approved By:		
---				Martin Gilgallon, P.G.		

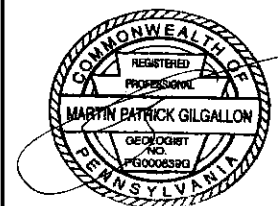


Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 13, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 13, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-10s
Driller: Bob Trimble	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		13:26	16:15	20.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1 0'-2'	--	Rec: 1.9' PID: 0.0 ppm	0.0' - 2.0' Grass, change to brown silt and sand with sandstone pebbles	Grass Surface Drill 6.25" ID HSA to TD	
1---	(13:30)	3				
---		7				
2---	SS-2 2'-4'	7	Rec: 1.7' PID: 0.0 ppm	2.0' - 4.0' Brown silt and sand with sandstone pebbles	Dry No Odor No Visual	
---		10				
3---	(13:33)	10				
---		12				
4---	SS-3 4'-6'	14	Rec: 2.0' PID: 0.0 ppm	4.0' - 6.0' Brown silt and sand with sandstone pebbles	Dry No Odor No Visual	
---		10				
5---	(13:43)	10				
---		11				
6---	SS-4 6'-8'	12	Rec: 2.0' PID: 0.0 ppm	6.0' - 8.0' Brown silt and sand with sandstone pebbles	Dry No Odor No Visual	
---		7				
7---	(13:54)	8				
---		13				
8---	SS-5 8'-10'	18	Rec: 1.9' PID: 0.0 ppm	8.0' - 10.0' Brown silt and sand with sandstone pebbles	Dry No Odor No Visual	
---		7				
9---	(14:08)	7				
---		7				
10---	SS-6 10'-12'	10	Rec: 1.2' PID: 0.0 ppm	10.0' - 12.0' Brown silt and sand with some clay and sub-rounded sandstone pebbles and cobbles	Dry No Odor No Visual	
---		7				
11---	(14:18)	7				
---		7				
12---	SS-7 12'-14'	7	Rec: 0.0' PID: NA	12.0' - 14.0' No Recovery		
---		11				
13---	(14:23)	13				
---		50 / .1				
14---	SS-8 14'-16'	38	Rec: 0.2' PID: 0.0 ppm	14.0' - 16.0' Gray sandstone fragments in shoe	Dry Wet @ 17.0'	
---		17				
15---	(14:44)	9				
---		10				
16---	SS-9 16'-18'	10	Rec: 1.9' PID: 0.0 ppm	16.0' - 18.0' Brown to reddish brown silt, sand and clay with sub- rounded pebbles and cobbles; sandstone at 17.5'	Auger refusal @ 20.0'	
---		12				
17---	(14:50)	30				
---		50				
18---	SS-10 18'-20'	6	Rec: 0.8' PID: 0.0 ppm	18.0' - 20.0' Abundant sandstone fragments in sand matrix		
---		8				
19---	(15:10)	30				
---		50 / .1				



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 14, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-11s
Driller: Bob Trimble	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		0805	1030	23.5'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1 0'-2'	-- 3	Rec: 1.7' PID: 0.0 ppm	0.0' - 2.0' Grass surface, brown silty sandy clay with some sandstone pebbles	Grass Surface Drill 6.25" ID HSA to TD	
1---	(0808)	3				
---		9				
2---	SS-2 2'-4'	4 9	Rec: 1.8' PID: 0.0 ppm	2.0' - 4.0' Brown to reddish brown sand silt and clay with sandstone and red shale pebbles	Dry No Odor No Visual	
---	(0811)	10				
---		11				
4---	SS-3 4'-6'	11 6	Rec: 2.0' PID: 0.0 ppm	4.0' - 6.0' Brown to reddish brown sand silt and clay with sandstone and red shale pebbles		
---	(0825)	10				
---		11				
6---	SS-4 6'-8'	12 11	Rec: 1.7' PID: 0.0 ppm	6.0' - 8.0' Brown to reddish brown sand silt and clay with sandstone and red shale pebbles	Damp to Moist	
---	(0837)	20				
---		32				
8---	SS-5 8'-10'	14 10	Rec: 0.9' PID: 0.0 ppm	8.0' - 10.0' Reddish brown to brown clayey sand with sandstone pebbles	Dry No Odor No Visual	
---	(0857)	10				
---		10				
10---	SS-6 10'-12'	10 6	Rec: 1.7' PID: 0.0 ppm	10.0' - 12.0' Reddish brown to brown clayey sand with sandstone pebbles	Moist No Odor No Visual	
---	(0905)	7				
---		8				
12---	SS-7 12'-14'	8 7	Rec: 1.6' PID: 0.0 ppm	12.0' - 14.0' Reddish brown to brown clayey sand with sub-rounded pebbles and cobbles		
---	(0915)	7				
---		9				
14---	SS-8 14'-16'	9 2	Rec: 0.9' PID: 0.0 ppm	14.0' - 16.0' Abundant sandstone fragments in a reddish brown to brown silty sandy clay matrix	Wet Odor Present No Visual	
---	(0930)	30				
---		9				
16---	SS-9 16'-18'	8 19	Rec: 0.4' PID: 0.0 ppm	16.0' - 18.0' Gray sandstone fragments	Wet Odor Present No Visual	
---	(0937)	50 / .3				
---		--				
18---	SS-10 18'-20'	-- 14	Rec: 1.2' PID: 0.0 ppm	18.0' - 20.0' Abundant sandstone fragments in reddish brown to brown silty clay matrix	Wet Odor Present Sheen on Fragments	
---	(0958)	15				
---		20		red shale at 19.5'		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 14, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-11s
Driller: Bob Trimble	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	0805	1030	23.5'	Lithologic Description	Notes
20---	SS-11	14	Rec: 1.6' PID: 0.0 ppm	23.5'	20.0' - 22.0'	Wet Odor Present
---	20'-22'	21			Abundant gray and red shale fragments	
21---	(1014)	49				
---		50				
22---					22.0' - 23.5'	Drilled test boring to 23.5' via auger. No split spoon sample collected from this interval.
---					Weathered red shale	
23---						

24---					Auger refusal @ 23.5'	

25---						

26---						

27---						

28---						

29---						

30---						

31---						

32---						

33---						

34---						

35---						

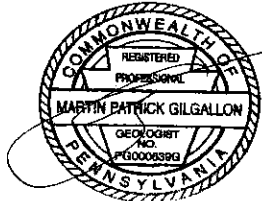
36---						

37---						

38---						

39---						

Log Approved By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 17, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 20, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12s
Driller: Bob Trimble	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		10:33	13:17	22.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1	--	Rec: 1.0'	0.0' - 2.0'	Grass Surface	
---	0'-2'	2	PID: 0.0 ppm	Grass, change to brown	Drill 6.25" ID HSA	
1---	(10:35)	4		silty sand	to TD	
---		7				
2---	SS-2	9	Rec: 0.7'	2.0' - 4.0'	Dry	
---	2'-4'	10	PID: 0.0 ppm	Brown silt and sand;	No Odor	
3---	(10:46)	12		sandstone cobble at 4.0'	No Visual	
---		13				
4---	SS-3	16	Rec: 1.9'	4.0' - 6.0'	Dry	
---	4'-6'	6	PID: 0.0 ppm	Sandstone cobble, change	No Odor	
5---	(11:12)	9		to brown silt and sand with	No Visual	
---		14		some clay and pebbles;		
6---	SS-4	28	Rec: 1.4'	sandstone cobbles at 5.5'	Dry	
---	6'-8'	22	PID: 0.0 ppm	6.0' - 8.0'	No Odor	
7---	(11:16)	17		Sandstone cobble, change	No Visual	
---		19		to brown silt and sand with		
8---	SS-5	29	Rec: 0.2'	some clay and pebbles	Dry	
---	8'-10'	50 / .4	PID: 0.0 ppm		No Odor	
9---	(11:35)	--		8.0' - 10.0'	No Visual	
---		--		Sandstone cobble at 8.0'		
10---	SS-6	5	Rec: 1.1'	10.0' - 12.0'	Moist at 11.5'	
---	10'-12'	5	PID: 0.0 ppm	Brown silt and sand with red	No Odor	
11---	(11:56)	10		shale and sandstone	No Visual	
---		10		pebbles and cobbles; some		
12---	SS-7	10	Rec: 1.2'	clay at 11.5'	Wet at 13.5'	
---	12'-14'	10	PID: 0.0 ppm	12.0' - 14.0'	No Odor	
13---	(12:02)	10		Brown silt and sand with red	No Visual	
---		15		shale and sandstone		
14---	SS-8	40	Rec: 1.6'	pebbles and cobbles; some	Wet	
---	14'-16'	4	PID: 0.0 ppm	clay	No Odor	
15---	(12:30)	6		14.0' - 16.0'	No Visual	
---		10		Brown silt and sand with		
16---	SS-9	10	Rec: 1.4'	some clay lenses and	Wet	
---	16'-18'	11	PID: 0.0 ppm	sandstone pebbles and	No Odor	
17---	(12:34)	11		cobbles	No Visual	
---		8		16.0' - 18.0'		
18---	SS-10	5	Rec: 1.1'	Brown silt and sand with	Wet	
---	18'-20'	10	PID: 0.0 ppm	some clay lenses and	No Odor	
19---	(12:52)	9		sandstone pebbles and	No Visual	
---		6		cobbles		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 17, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 20, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12s
Driller: Bob Trimble	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---	SS-11	2	Rec: 0.9'	20.0' - 22.0'	Wet	
---	20'-22'	2	PID: 0.0 ppm	Brown silt and sand with	No Odor	
21---	(13:01)	5		some clay lenses and	No Visual	
---		50		abundant sandstone		
22---				fragments		

23---				End of boring @ 22.0'	Water under pressure	
---					in borehole	
24---						

25---						

26---						

27---						

28---						

29---						

30---						

31---						

32---						

33---						

34---						

35---						

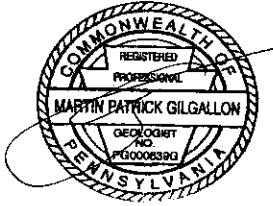
36---						

37---						

38---						

39---						

Log Approved By:
Martin Gilgallon, P.G.

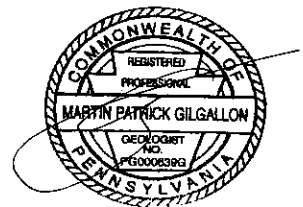


Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: May 18, 2010
Client: Mrs. Ruth Lewis	Date Finished: May 19, 2010
Purpose: Task 8: Shallow MW Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13s
Driller: Bob Trimble	Job Number: 27058.08
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1	--	Rec: 1.3'	0.0' - 2.0'	Grass Surface	
---	0'-2'	3	PID: 0.0 ppm	Grass, change to brown	Drill 6.25" ID HSA	
1---	(15:06)	3		silt and sand with sandstone	to TD	
---		4		and red shale pebbles with		
2---	SS-2	5	Rec: 1.3'	clay lenses		
---	2'-4'	4	PID: 0.0 ppm	2.0' - 4.0'	Damp	
3---	(15:09)	4		Brown silt and sand with	No Odor	
---		7		sandstone and red shale	No Visual	
4---	SS-3	8	Rec: 1.6'	pebbles with clay lenses		
---	4'-6'	11	PID: 0.0 ppm	4.0' - 6.0'	Damp	
5---	(15:26)	11		Brown silt and sand with	No Odor	
---		8		sandstone and red shale	No Visual	
6---	SS-4	8	Rec: 1.7'	pebbles with clay lenses		
---	6'-8'	6	PID: 0.0 ppm	6.0' - 8.0'	Damp	
7---	(15:34)	7		Brown to reddish brown	No Odor	
---		8		silt and sand with some	No Visual	
8---	SS-5	9	Rec: 1.2'	clay, red shale and		
---	8'-10'	10	PID: 0.0 ppm	sandstone pebbles and		
9---	(15:57)	8		cobbles		
---		8		8.0' - 10.0'	Damp	
10---	SS-6	12	Rec: 0.9'	Brown to reddish brown	No Odor	
---	10'-12'	9	PID: 0.0 ppm	silt and sand with some	No Visual	
11---	(16:11)	12		clay, red shale and		
---		12		sandstone pebbles and		
12---	SS-7	12	Rec: 0.4'	cobbles		
---	12'-14'	8	PID: 0.0 ppm	10.0' - 12.0'	Damp	
13---	(16:15)	9		Brown to reddish brown	No Odor	
---		11		silt and sand with some	No Visual	
14---	SS-8	11	Rec: 1.8'	clay, red shale and		
---	14'-16'	4	PID: 0.0 ppm	sandstone pebbles and	Damp	
15---	(16:46)	4		cobbles	No Odor	
---		6		12.0' - 14.0'	No Visual	
16---	SS-9	11	Rec: 1.5'	Brown to reddish brown		
---	16'-18'	9	PID: 0.0 ppm	silt and sand with some		
17---	(16:50)	9		clay, red shale and		
---		6		sandstone pebbles and		
18---	SS-10	12	Rec: 0.2'	cobbles		
---	18'-20'	10	PID: 0.0 ppm	18.0' - 20.0'	Damp	
19---	(17:30)	50 / .2		Sandstone fragments	No Odor	
---				Refusal at 19.0'	No Visual	



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Bros. Garage	Date Started: August 16, 2011
Client: Lewis Brothers	Date Finished: August 16, 2011
Purpose: Shallow Groundwater Monitoring Well Installation	
Contractor: Eichelbergers, Incorporated	Boring Number: MW-14s
Driller: Chris Chronister	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		9:05	15:00	20.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1		Rec: 3.7'	0.0' - 1.3'	Wet 0.0' - 1.3'	
1---	0'-5'		PID: 0.0 ppm	Mixed brown silty sandy clay	Dry 1.3' - 5.0'	
---	(09:08)		No odor / visual	with black shales and coal		
2---				finer		
---				1.3' - 1.9'		
3---				Brown silty sand with		
---				sandstone fragments		
4---				1.9' - 5.0'		
---				Brown to reddish brown silty		
5---	SS-2		Rec: 5.0'	sand with sandstone	Saturated Zones	
---	5'-10'		PID: 0.0 ppm	and red siltstone pebbles	7.3' - 8.0' & 9.2' - 9.6'	
6---	(09:13)		No odor / visual	and some clay to 11.5'		

7---						

8---						

9---						

10---	SS-3		Rec: 3.0'	11.5' - 12.5'	Damp to Moist	
---	10'-15'		PID: 0.0 ppm	Weathered sandstone in	10.0' - 11.5'	
11---	(09:35)		No odor / visual	medium brown sandy matrix		
---				12.5' - 13.4'		
12---				Red siltstone - weathered	Probe refusal @ 13.4'	
---					Auger to 20.0'	
13---						

14---						

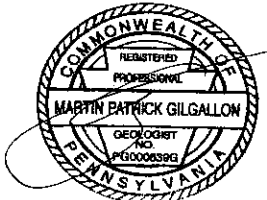
15---	SS-4		Rec: N/A	Red siltstone to 20.0'		
---	15'-20'		PID: N/A			
16---	(12:26)					

17---						

18---						

19---						

Log Approved By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Bros. Garage	Date Started: August 15, 2011
Client: Lewis Brothers	Date Finished: August 15, 2011
Purpose: Shallow Groundwater Monitoring Well Installation	
Contractor: Eichelbergers, Incorporated	Boring Number: MW-15s
Driller: Chris Chronister	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		12:25	16:20	20.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1		Rec: 3.8'	Grass and root zone to brown silty sandy clay to 1.2'; change to brown to reddish brown silty sand with some clay and abundant sandstone and red siltstone fragments	Moist Surface Layer to 0.7' Dry Below 0.7'	
1---	0'-5'		PID: 0.0 ppm			
---	(12:30)		No odor / visual			
2---						

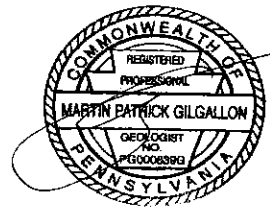
3---						
4---						
5---	SS-2		Rec: 5.0'	Brown to reddish brown silty sand with some clay and abundant sandstone and red siltstone fragments, change to brown silt and sand 7.5' - 8.5', change to brown and reddish brown silty sand with abundant sandstone and red shale fragments	Wet 8.0' Formation tight	
---	5'-10'		PID: 0.0 ppm			
6---	(12:42)		No odor / visual			
7---						

8---						
9---						
10---	SS-3		Rec: 4.8'	Cobbles 16.6' - 16.9', change to medium-grained sand 17.0' - 18.0', change to brown to reddish brown silty sandy clay with abundant sandstone and red siltstone pebbles and cobbles	Wet from Above Formation tight	
---	10'-15'		PID: 0.0 ppm			
11---	(12:47)		No odor / visual			

12---						
13---						
14---						
15---	SS-4		Rec: 5.0'	Cobbles 16.6' - 16.9', change to medium-grained sand 17.0' - 18.0', change to brown to reddish brown silty sandy clay with abundant sandstone and red siltstone pebbles and cobbles	Wet 16.9' - 18.0'	
---	15'-20'		PID: 0.0 ppm			
16---	(13:00)		No odor / visual			

17---						
18---						
19---						

Log Approved By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project:	Site Characterization / Lewis Bros. Garage	Date Started:	August 16, 2011
Client:	Lewis Brothers	Date Finished:	August 17, 2011
Purpose:	Shallow Groundwater Monitoring Well Installation		
Contractor:	Eichelbergers, Incorporated	Boring Number:	MW-16s
Driller:	Chris Chronister	Job Number:	27058
Inspector:	Dean Cruciani	Sheet:	1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1		Rec: 5.0'	0.0' - 0.3'	Dry 0.3' - 5.0'	
1---	0'-5'		PID: 0.0 ppm	Grass and root zone; brown		
---	(16:15)		No odor / visual	silty sandy clay		
2---				0.3' - 5.0'		
---				Brown silty sand with		
3---				some clay and sandstone		
---				and red siltstone pebbles		
4---						
5---	SS-2		Rec: 4.7'	5.0' - 10.0'	Dry	
---	5'-10'		PID: 0.0 ppm	Brown to reddish brown		
6---	(16:20)		No odor / visual	silty sand with some		
---				clay and abundant		
7---				sandstone and red		
---				siltstone pebbles	Brittle	
8---						
9---						
10---	SS-3		Rec: 4.3'	10.0' - 15.0'	Dry to Damp	
---	10'-15'		PID: 0.0 ppm	Brown to reddish brown		
11---	(16:28)		No odor / visual	silty sand with some		
---				clay and abundant		
12---				sandstone and red		
---				siltstone pebbles		
13---						
14---						
15---	SS-4		Rec: 4.0'	15.0' - 20.0'	Damp thru upper portion of soil column	
---	15'-20'		PID: 0.0 ppm	Brown to reddish brown silty		
16---	(16:36)		No odor / visual	sand with some clay		
---				and abundant sandstone and		
17---				red siltstone pebbles;		
---				sandstone cobbles 16.5' -		
18---				18.0', change to brown		
---				sandy clay with sandstone		
19---				pebbles 18.0' - 20.0'		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Bros. Garage	Date Started: August 16, 2011
Client: Lewis Brothers	Date Finished: August 17, 2011
Purpose: Shallow Groundwater Monitoring Well Installation	
Contractor: Eichelbergers, Incorporated	Boring Number: MW-16s
Driller: Chris Chronister	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---	SS-5 20'-25' (16:48)	16:12	Rec: 4.3'	20.0' - 25.0' Brown and reddish brown silty sandy clay with sandstone and red siltstone pebbles; cobbles 23.0' - 23.8'; brown medium grained sand 23.8'-24.4'	Soft Zones at 23.0' and 24.0'	
---		13:03	PID: 0.0 ppm			
21---		No odor / visual				

22---						

23---						

24---						

25---	SS-6 25'-30' (17:00)		Rec: 3.9'	25.0' - 30.0' Brown sand with clay films and abundant sandstone cobbles	Moist Thru Column Damp to Moist thru Column Running Auger (4 1/4") No distinct water bearing zones	
---			PID: 0.0 ppm			
26---		No odor / visual				

27---						

28---						

29---						

30---			30.0' - 38.0'	Static Water Level 28.5' at start of 8/17/11 Drilled HSA to 38.2'		
---			Gray sandstone cobble in			
31---			brown silty sand matrix;			
---			some clay present; sand			
32---			seam 31.0' - 32.2' (brown			
---			medium sand)			
33---						

34---						

35---						

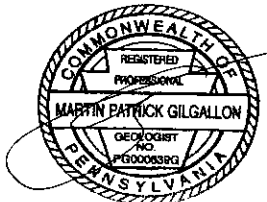
36---						

37---						

38---						

39---						

Log Approved By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project:	Site Characterization / Lewis Bros. Garage	Date Started:	August 17, 2011
Client:	Lewis Brothers	Date Finished:	August 17, 2011
Purpose:	Shallow Groundwater Monitoring Well Installation		
Contractor:	Eichelbergers, Incorporated	Boring Number:	MW-17s
Driller:	Chris Chronister	Job Number:	27058
Inspector:	Dean Cruciani	Sheet:	1 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		13:17	18:00	30.0'		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---	SS-1		Rec: 4.5'	0.0' - 5.0'	Dry	
1---	0'-5'		PID: 0.0 ppm	Grass and mixed brown		
---	(13:22)		No odor / visual	silty sand to 2.0',		
2---				change to brown silty sand		
---				with orange streaks		
3---				(mottled, brittle), change to		
---				reddish brown silty sand		
4---				with some clay and gray		
---				sandstone pebbles		
5---	SS-2		Rec: 5.0'	5.0' - 10.0'	Dry	
---	5'-10'		PID: 0.0 ppm	Brown to reddish brown		
6---	(13:25)		No odor / visual	silty sand with abundant		
---				red siltstone and sandstone		
7---				pebbles and cobbles		

8---						

9---						

10---	SS-3		Rec: 4.2'	10.0' - 15.0'	Dry	
---	10'-15'		PID: 0.0 ppm	Brown to reddish brown		
11---	(13:35)		No odor / visual	silty sand with abundant		
---				red siltstone and sandstone		
12---				pebbles and cobbles		

13---						

14---						

15---	SS-4		Rec: 5.0'	15.0' - 20.0'	Moist 19.0' - 19.5'	
---	15'-20'		PID: 0.0 ppm	Brown sand 20.0' - 21.3',		
16---	(13:47)		No odor / visual	change to brown silt and	Wet 20.0'	
---				sand with some clay and		
17---				abundant sandstone pebbles		
---				and cobbles; sandstone		
18---				cobbles 19.8' - 20.0'		

19---					HSA to 30.0'	

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Site Characterization / Lewis Bros. Garage	Date Started: August 17, 2011
Client: Lewis Brothers	Date Finished: August 17, 2011
Purpose: Shallow Groundwater Monitoring Well Installation	
Contractor: Eichelbergers, Incorporated	Boring Number: MW-17s
Driller: Chris Chronister	Job Number: 27058
Inspector: Dean Cruciani	Sheet: 2 of 2

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---				20.0' - 30.0' Brown silt and sand with abundant sandstone pebbles and cobbles		

21---						

22---						

23---						

24---						

25---						

26---						

27---						

28---						

29---						

30---						

31---						

32---						

33---						

34---						

35---						

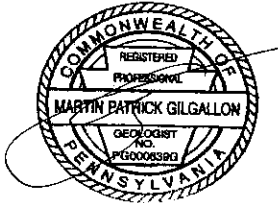
36---						

37---						

38---						

39---						

Log Approved By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 20, 2008
Client: Ruth Lewis	Date Finished: June 23, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-1D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	9:50	12:20	70.0'	Lithologic Description	Notes
---					0.0' - 3.0'	Broken Asphalt
1---					Broken asphalt / gravel with red shale fill	

2---						

3---					3.0' - 11.0'	Dry
---					PID: 0.0 ppm	
4---					No odors	

5---						

6---						

7---						

8---						

9---						

10---						Dry

11---					11.0' - 14.0'	Dry at rod change
---					PID: 0.0 ppm	
12---					No odors	

13---						

14---					14.0' - 20.0'	Moist

15---					Dark brown sand and silt with abundant sub-rounded sandstone cobbles and pebbles	

16---						

17---					PID: 0.0 ppm	Boulders
---					No odors	
18---						

19---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 20, 2008
Client: Ruth Lewis	Date Finished: June 23, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-1D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	9:50	12:20	70.0'	Lithologic Description	Notes
20---					20.0' - 21.0'	Moist
---					Sandstone boulders	
21---					21.0' - 28.0'	
---					Brown sand and silt with	
22---					abundant sandstone cobbles	
---					and pebbles	
23---						Wet

24---						

25---						Wet

26---						

27---						

28---					28.0' - 30.0'	
---					Weathered sandstone bedrock	
29---						

30---					30.0' - 32.0'	
---					Gray fine-grained sandstone	Competent bedrock
31---						Set 10" steel to 30.0'

32---					32.0' - 40.0'	
---					Red shale	Steady drilling in shale
33---						Dry in bedrock

34---						

35---						

36---						

37---						

38---						

39---						Set 6" steel to 40.0'

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 20, 2008
Client: Ruth Lewis	Date Finished: June 23, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-1D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	9:50	12:20	70.0'	Lithologic Description	Notes
40--			PID: 0.0 ppm No odors	40.0' - 42.0'	Red shale	Dry

41--						

42--				42.0' - 48.0'	Red shale	

43--						

44--						

45--			PID: 0.0 ppm No odors			Fracture 49.0'-50.5' No apparent water during drilling Steady drilling 50.5' to 60.0'

46--						

47--						

48--				48.0' - 53.0'	Red shale to reddish-gray fine-grained sandstone (weathered gray sandstone in fracture zone)	

49--						

50--						

51--						

52--			PID: 0.0 ppm No odors			

53--				53.0' - 57.0'	Red shale	

54--						

55--						

56--						

57--				57.0' - 59.0'	Dark red shale to very fine-grained sandstone	

58--			PID: 0.0 ppm No odors			

59--				59.0' - 60.0'	Gray fine-grained sandstone	

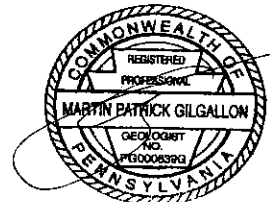
Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 20, 2008
Client: Ruth Lewis	Date Finished: June 23, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-1D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 4 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	9:50	12:20	70.0'	Lithologic Description	Notes
60---			PID: 0.0 ppm No odors		60.0' - 62.0' Gray fine-grained sandstone	
61---						
62---					62.0' - 70.0' Interbedded red shale and gray shale to fine-grained sandstone	Wait for water at 62.0' 1118-1144. Moist only continue drilling
63---						
64---						
65---			PID: 0.0 ppm No odors			
66---						
67---						
68---						
69---						
70---					End of boring at 70.0'	Wait for water at 70.0' 1153-1217. Observed 4.0' of water.
71---						
72---						
73---						
74---						
75---						
76---						
77---						
78---						
79---						

Log Prepared By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 16, 2008
Client: Ruth Lewis	Date Finished: June 18, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-2D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
		11:45	8:10	85.0'		
---			Distinct odors observed from 3.0' to 11.0'	0.0' - 11.0' Asphalt with gravel fill material change to brown sand, silt and clay with abundant sandstone cobbles and boulders	Asphalt surface	
1---						

2---						

3---						

4---						

5---						
---			PID: 92 ppm	11.0' - 20.0' Brown sand, silt and clay with abundant sandstone cobbles and pebbles	Dry	
6---						

7---						

8---						

9---						

10---						
---			PID: 0.0 ppm Slight odors		Dry	
11---						

12---						

13---						

14---						

15---						
---			PID: 65 ppm Odorous		Dry	
16---						

17---						

18---						

19---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 16, 2008
Client: Ruth Lewis	Date Finished: June 18, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-2D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---		11:45	8:10	85.0'	20.0' - 31.0'	
---			Odors observed	Reddish-brown to brown sand and silt with varying amounts of clay and abundant sub-rounded cobbles and pebbles		
21---			throughout			
---			overburden			
22---						

23---						

24---						

25---						

26---						

27---						

28---						

29---						

30---						

31---				31.0' - 31.5'		
---				Gray to reddish-gray fine-grained sandstone	Weathered	
32---				32.0' - 41.0'		
---				Gray medium-grained sandstone	Competent at 32.0'	
33---					Set 10" steel to 32.0'	

34---						

35---					Steady drilling 32.0'	
---					to 45.0'	
36---						

37---					Set 6" steel to 45.0'	

38---						

39---					Dry in bedrock	

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 16, 2008
Client: Ruth Lewis	Date Finished: June 18, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-2D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	11:45	8:10	85.0'	Lithologic Description	Notes
40--						

41--					41.0' - 45.0'	Steady 41.0' - 45.0'
---					Red shale to very fine-grained sandstone	
42--						

43--						

44--						

45--					45.0' - 54.0'	Steady drilling
---					PID: 0.0 ppm	
46--					Reddish-gray very fine-grained sandstone	
---					No odors	
47--						

48--						

49--						Dry

50--						

51--						

52--						

53--						

54--					54.0' - 55.0'	
---					PID: 0.0 ppm	
55--					Red shale	Steady
---					No odors	
56--					55.0' - 60.0'	
---					Red shale with reddish-gray fine-grained sandstone interbeds	
57--						Dry

58--						

59--						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 16, 2008
Client: Ruth Lewis	Date Finished: June 18, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-2D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 4 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
60---				60.0' - 62.5'		
---				Gray fine-grained sandstone		
61---						Dry at rod change

62---						
---			PID: 0.0 ppm	62.5' - 71.0'		
63---			No odors	Red shale with gray fine-		
---				grained sandstone interbeds		
64---						

65---						

66---						Choppy 66.0'-68.0'

67---						

68---						

69---						

70---						

71---			PID: 0.0 ppm	71.0' - 78.0'		
---			No odors	Gray fine-grained sandstone		
72---						

73---						

74---						

75---						Choppy at 75.0'

76---						Soft at 76.5'

77---				78.0' - 85.0'		
---				Red shale		
78---						Wait for water at 80.0'
---						0729-0750
79---						1.0' - 2.0' of water
---						Drill to 85.0'



Log Prepared By:
Martin Gilgallon, P.G.

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 19, 2008
Client: Ruth Lewis	Date Finished: June 20, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-6D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description		Lithologic Description	Notes
		13:00	8:45	85.0'		
---			PID: 0.0 ppm No odors		0.0' - 3.0'	Asphalt surface
1---					Asphalt with base change to brown sand and silt with cobbles and pebbles	
2---			PID: 0.0 ppm No odors		3.0' - 12.0'	Dry
3---					Brown to dark brown sand and silt with some clay and abundant sandstone cobbles and pebbles	
4---			PID: 0.0 ppm No odors		12.0' - 13.5'	Dry
5---					Gray sandstone boulder	
6---			PID: 0.0 ppm No odors		13.5' - 18.0'	
7---					Brown to dark brown sand and silt with some clay and abundant sandstone cobbles and pebbles	
8---			PID: 0.0 ppm No odors		18.0' -21.0'	Wet - water rose quickly in borehole
9---					Brown to dark brown sand and silt with some clay and abundant sandstone cobbles and pebbles	
10---			PID: 0.0 ppm No odors			
11---						
12---			PID: 0.0 ppm No odors			
13---						
14---			PID: 0.0 ppm No odors			
15---						
16---			PID: 0.0 ppm No odors			
17---						
18---			PID: 0.0 ppm No odors			
19---						
---			PID: 0.0 ppm No odors			

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 19, 2008
Client: Ruth Lewis	Date Finished: June 20, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-6D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	13:00	8:45	85.0'	Lithologic Description	Notes
20---						

21---					21.0' - 22.5'	
---					Gray sandstone boulders	
22---						

23---					22.5' - 32.0'	Wet
---					PID: 0.0 ppm	
24---					No odors	

25---						

26---						

27---						

28---						

29---						

30---						

31---						

32---					32.0' - 34.5'	Wet
---					Gray weathered sandstone	
33---						
---					PID: 0.0 ppm	
34---					No odors	

35---					34.5' - 38.0'	Competent bedrock
---					Gray fine to medium-grained sandstone	Set 10" steel to 34.5'
36---						

37---						

38---					38.0' - 40.0'	Steady / dry in shale
---					Red shale	
39---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 19, 2008
Client: Ruth Lewis	Date Finished: June 20, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-6D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface		
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes			
40--			PID: 0.0 ppm No odors	40.0' - 43.0'	Steady / dry in shale			
---				Red shale				
41--			Set 6" steel to 45.5'	43.0' - 45.5'				
---				Red to dark red shale to very fine-grained sandstone				
42--				45.0' - 48.0'			Red shale / very fine-grained sandstone change to gray sandstone	

43--				48.0' - 51.0'			Steady / dry to 60.0' No indications of fractures or water	

44--				51.0' - 56.0'				

45--				PID: 0.0 ppm No odors				

46--			56.0' - 60.0'	Gray medium-grained sandstone				

47--								

48--								

49--								

50--								

51--								

52--								

53--								

54--								

55--								

56--								

57--								

58--								

59--								

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: June 19, 2008
Client: Ruth Lewis	Date Finished: June 20, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-6D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 4 of 4

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
60---				60.0' - 67.5'		Small fracture at 60.0'
---				Gray medium-grained sandstone		Dry at rod change
61---						

62---			PID: 0.0 ppm			
---			No odors			
63---						

64---						

65---						

66---						

67---				67.5' - 69.0'		Possible fracture at 67.0' - 68.0'
---				Very dark gray to red shale		Pull tools and wait for water 0725 - 0750.
68---						

69---				69.0' - 70.0'		Hole dry, continue drilling
---				Gray fine to medium-grained sandstone		
70---						Steady / hard drilling 70.0' - 79.5'

71---						

72---						

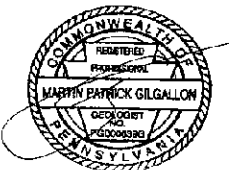
73---						

74---						

75---				79.5' - 85.0'		
---				Gray fine to medium-grained sandstone		
76---						

77---			PID: 0.0 ppm			Very soft 79.5'-82.0'
---			No odors			Sandstone brown and weathered in this zone
78---						

79---						



Log Prepared By:
Martin Gilgallon, P.G.

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: October 2, 2008
Client: Ruth Lewis	Date Finished: October 3, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-7D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 3

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	9:50	9:00	60.0'	Lithologic Description	Notes
---					0.0' - 9.0'	Asphalt surface
1---					Asphalt with gravel base	
---					change to brown sand and	
2---					silt with abundant sub-angular	
---					sandstone boulders	
3---						

4---						

5---						

6---						

7---						

8---						

9---					PID: 0.0 ppm	
---					No odors	
10---					9.0' - 21.0'	Dry
---					Brown sand with abundant	
11---					sub-rounded sandstone	
---					cobbles, boulders, pebbles	
12---						

13---						

14---						

15---						

16---						

17---						

18---						

19---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: October 2, 2008
Client: Ruth Lewis	Date Finished: October 3, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-7D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 3

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	9:50	9:00	60.0'	Lithologic Description	Notes
20---			PID: 40.0 ppm Odorous			
21---				21.0' - 24.0'	Sandstone boulders (gray medium-grained)	Very hard drilling
22---						
23---						
24---				24.0' - 33.0'	Brown sand and silt with some clay and abundant sandstone cobbles and pebbles	Very Wet at 24.0'
25---						
26---						
27---						
28---						
29---						
30---						
31---						
32---						
33---				33.0' - 35.0'	Weathered gray sandstone	Weathered bedrock
34---						
35---				35.0' - 40.0'	Gray fine to medium-grained sandstone	Competent bedrock
36---						Set 10" steel to 38.0'
37---						
38---						
39---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: October 2, 2008
Client: Ruth Lewis	Date Finished: October 3, 2008
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-7D
Driller: Troy Toland	Job Number: 27058
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 3

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	9:50	9:00	60.0'	Lithologic Description	Notes
40--					40.0' - 41.0'	
---					Red shale	
41--						
---					41.0' - 45.0'	
42--					Gray fine to medium-grained	
---					sandstone	
43--						

44--						

45--					45.0' - 49.0'	Set 6" steel to 45.0'
---					Gray medium-grained	
46--					sandstone	

47--						

48--						

49--					49.0' - 50.0'	Soft / weathered
---					Brown sandstone	
50--					50.0' - 54.0'	
---					Gray medium-grained	
51--					sandstone	

52--						

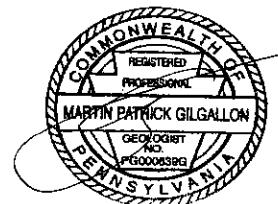
53--						

54--					54.0' - 57.0'	
---					Red shale	
55--						Wait for water at 60.0'
---						Possible yield 3 gpm
56--						Strong petroleum odor

57--					57.0' - 60.0'	
---					Red shale with fine-grained	
58--					gray sandstone interbeds	

59--						

					Log Prepared By: Martin Gilgallon, P.G.	



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: March 30, 2010
Client: Mrs. Ruth Lewis	Date Finished: March 31, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-8D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 5

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	12:30	14:30	100.0'	Lithologic Description	Notes
---					0.0' - 10.0'	Drill 10" diameter roller bit 0' - 50'
1---					Brown silt and sand with sub-rounded red shale and sandstone pebbles	Asphalt surface

2---						

3---						

4---						

5---				PID: 0.0 ppm		

6---					10.0' - 20.0'	Wet @ 13.0'

7---						

8---						

9---						

10---				PID: 0.0 ppm		

11---					Brown silt and sand with some clay and red sandstone and shale pebbles and cobbles	Wet

12---						

13---						

14---						

15---				PID: 0.0 ppm		

16---						

17---						

18---						

19---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: March 30, 2010
Client: Mrs. Ruth Lewis	Date Finished: March 31, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-8D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 5

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	12:30	14:30	100.0'	Lithologic Description	Notes
20---					20.0' - 23.5'	
---					Brown silt and sand with some	
21---					clay and red sandstone and	
---					shale pebbles and cobbles	
22---						

23---					PID: 0.0 ppm	Wet

24---					23.5' - 24.5'	
---					Sandstone boulder	
25---						
---					24.5' - 40.0'	
26---					Brown to reddish-brown silt	
---					and sand with some clay,	
27---					sandstone and shale pebbles	
---					and cobbles	
28---						

29---						

30---						

31---						

32---					PID: 0.0 ppm	Wet

33---						

34---						

35---						

36---						

37---						

38---						

39---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: March 30, 2010
Client: Mrs. Ruth Lewis	Date Finished: March 31, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-8D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 5

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	12:30	14:30	100.0'	Lithologic Description	Notes
40---					40.0' - 41.0'	
---					Weathered gray sandstone	
41---						
---					PID: 0.0 ppm	Competent bedrock
42---					41.0' - 50.0'	
---					Interbedded gray sandstone to shale	
43---						

44---						

45---						

46---						

47---						

48---						47.5' - Possible fracture No apparent water

49---						

50---					PID: 0.0 ppm	End 10" roller bit Start 7.5" air hammer
---					50.0' - 52.0'	
51---					Interbedded gray sandstone and shale	

52---					52.0' - 55.0'	
---					Yellowish-gray very fine sandstone to shale	
53---						

54---						

55---					55.0' - 58.0'	Dry
---					Red shale	
56---						

57---						

58---					PID: 0.0 ppm	Dry
---					58.0' - 60.0'	
59---					Very dark red shale	

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: March 30, 2010
Client: Mrs. Ruth Lewis	Date Finished: March 31, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-8D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 4 of 5

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	12:30	14:30	100.0'	Lithologic Description	Notes
60---					60.0' - 62.0'	
---					Grayish-red fine sandstone	
61---						

62---			PID: 0.0 ppm		62.0' - 66.0'	Dry @ rod change (62')
---					Gray fine to medium sandstone	
63---						Soft @ 62' - Dry

64---						Choppy @ 64' - Dry

65---						

66---			PID: 0.0 ppm		66.0' - 73.0'	
---					Red shale	
67---						

68---						

69---						

70---						

71---						

72---						

73---					73.0' - 74.5'	Choppy, large frags @
---					Gray very fine sandstone to	73.5' - 74.0'
74---					shale	

75---			PID: 0.0 ppm		74.5' - 75.0'	Wait for water @ 75.0'
---					Red shale	1206-1230 - Dry
76---						

77---					75.0' - 82.0'	
---					Reddish-gray fine sandstone	
78---						

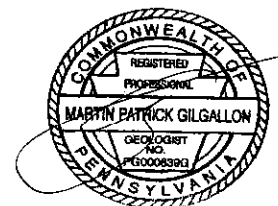
79---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: March 30, 2010
Client: Mrs. Ruth Lewis	Date Finished: March 31, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-8D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 5 of 5

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	12:30	14:30	100.0'	Lithologic Description	Notes
80---						
81---						
82---					PID: 0.0 ppm 82.0' - 87.0' Red shale	Dry @ rod change (82')
83---						
84---						
85---						
86---						
87---					87.0' - 89.0' Soft gray sandstone	
88---						
89---					PID: 0.0 ppm 89.0' - 95.0' Olive fine to medium grained sandstone	Very soft / weathered
90---						Assume water bearing zone @ 90.0'
91---						
92---						
93---						
94---						
95---					PID: 0.0 ppm 95.0' - 100.0' Dark olive-gray medium to fine sandstone	Wait for water @ 95.0' 1242-1257 - 2' present
96---						
97---						
98---					End of boring @ 100.0'	
99---					Log Prepared By: Martin Gilgallon, P.G.	
100---						



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 5, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 6, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 9

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description		Lithologic Description	Notes
---		11:40	14:30	172.0'		
1---			PID: 0.0 ppm		0.0' - 15.0' Reddish-brown to dark brown sand and silt with abundant gray sandstone cobbles, pebbles and boulders	Drill 10" diameter roller bit 0' - 60' Asphalt surface Dry
2---						
3---						
4---						
5---						
6---						
7---						
8---						
9---						
10---						
11---						
12---						
13---						
14---						
15---						
16---						
17---						
18---						
19---						
---			PID: 0.0 ppm		15.0' - 18.0' Weathered red shale to sandstone	Hard
---			PID: 0.0 ppm		18.0' - 19.5' Gray fine to medium sandstone	Dry Very choppy drilling

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 5, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 6, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 9

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---			PID: 0.0 ppm	19.5' - 30.0'	Soft to 30.0'	
---				Reddish-brown sand and silt with trace clay and abundant sandstone pebbles		
21---						

22---						

23---						

24---						
---					Dry	
25---						

26---						

27---			PID: 0.0 ppm		Wet near 27.0'	

28---						

29---						

30---			PID: 0.0 ppm	30.0' - 37.0'	Hard at 30.0'	
---				Reddish-brown to dark reddish-brown sand and silt with trace clay and abundant sub-rounded pebbles, cobbles and boulders		
31---						

32---						

33---						

34---						

35---					Wet	

36---						

37---			PID: 0.0 ppm	37.0' - 40.0'		
---				Reddish-brown sand and silt with trace clay and abundant sub-rounded pebbles, cobbles and boulders		
38---						

39---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 5, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 6, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 9

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
40---			PID: 0.0 ppm	40.0' - 52.0'	Wet	
---				Reddish-brown to dark		
41---				reddish-brown sand and silt		
---				with trace clay and abundant		
42---				sub-rounded pebbles,		
---				cobbles and boulders		
43---						

44---						

45---					Wet	

46---						

47---						

48---						

49---						

50---						

51---						

52---			PID: 0.0 ppm	52.0' - 60.0'	Top of competent	
---				Gray fine to medium-grained	bedrock @ 52.0'	
53---				sandstone		

54---						

55---					Dry in bedrock	

56---						

57---						

58---						

59---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 5, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 6, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 4 of 9

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description		Lithologic Description	Notes
60---			PID: 0.0 ppm		60.0' - 67.0'	End 10" roller bit
---					Gray fine to medium-grained	Start 7.5" air hammer
61---					micaceous sandstone	

62---						Dry

63---						

64---						

65---						

66---						

67---					67.0' - 70.0'	Soft @ 67.0' - dry
---					Brown sandstone change to	
68---					red shale	

69---						

70---			PID: 0.0 ppm		70.0' - 73.0'	
---					Red shale to very fine-grained	
71---					sandstone	Dry

72---						

73---					73.0' - 83.5'	
---					Red shale to very fine-grained	
74---					sandstone	

75---						Soft @ 75.0'

76---						

77---						

78---			PID: 0.0 ppm			Wait for water @ 81.0'
---						1532-1600 - dry
79---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 5, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 6, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 5 of 9

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
80---						

81---						

82---						

83---						
---			PID: 0.0 ppm	83.5' - 87.0'		
84---				Gray sandstone		Soft

85---						

86---						Soft / weathered - dry

87---						
---				87.0' - 94.0'		
88---				Red shale grade into red shale to fine sandstone near 94'		

89---						Soft @ 89.0'

90---						

91---						

92---						

93---						

94---			PID: 0.0 ppm	94.0' - 101.0'		
---				Brown sandstone		Soft 94.0' - 101.0'
95---						

96---						

97---						

98---						

99---						Wait for water @ 101.0'
---						1615-1640 - dry

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 5, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 6, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 6 of 9

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
100---						

101---			PID: 0.0 ppm	101.0' - 106.5' Gray fine to medium-grained sandstone		Hard

102---						

103---						

104---						

105---						

106---						Possible fracture 106'

107---				106.5' - 110.0' Dark olive fine to medium- grained sandstone		Soft

108---						

109---						

110---			PID: 0.0 ppm	110.0' - 111.0' Gray medium-grained micaceous sandstone		Soft

111---						

112---				111.0' - 115.0' Dark olive fine to medium- grained sandstone		Wait for water overnite at 111.0' - dry

113---						

114---						

115---				115.0' - 116.0' Gray fine-grained sandstone		

116---						

117---				116.0' - 121.0' Weathered olive sandstone		Soft / powdery Wait for water @121' 0900-0915 - dry

118---						

119---						
---			PID: 0.0 ppm			

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 5, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 6, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 7 of 9

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description		Lithologic Description	Notes
120---						
121---					121.0' - 123.0'	
122---					Weathered olive sandstone	
123---			PID: 0.0 ppm		123.0' - 123.5'	
124---					Chocolate brown sandstone	Very soft
125---					123.5' - 127.0'	
126---					Olive-gray sandstone change to brown sandstone @ 127.0'	
127---						
128---					127.5' - 143.0'	
129---					Red shale change to red shale to fine sandstone near 131.0'	
130---						
131---			PID: 0.0 ppm			Wait for water @ 131' 0930 - 0955 - dry
132---						
133---						
134---						
135---						
136---						
137---						
138---						
139---						Wait for water @ 141' 1003-1027 - dry

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 5, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 6, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 8 of 9

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
140---						

141---						Dry

142---						

143---			PID: 0.0 ppm	143.0' - 146.0' Olive to gray sandstone		Hard

144---						

145---						

146---				146.0' - 151.0' Red shale		

147---						

148---						Dry

149---						

150---						

151---			PID: 0.0 ppm	151.0' - 159.0' Red shale to very fine-grained sandstone		

152---						

153---						

154---						

155---						Soft 155' - 157'

156---						

157---						

158---						

159---			PID: 0.0 ppm	159.0' - 161.0' Gray fine-grained sandstone		Wait for water @ 161 1045-1112 - dry

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 5, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 6, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-9D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 9 of 9

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description		Lithologic Description	Notes
160---						
161---			PID: 0.0 ppm		161.0' - 172.0'	Possible water bearing zone at 162.0' No fracture, water observed entering borehole.
162---					Gray to brown medium-grained micaceous sandstone	
163---						
164---						
165---						
166---						
167---						
168---						
169---						
170---						
171---						
172---					End of boring @ 172.0'	
173---						
174---						
175---						
176---						
177---						
178---						
179---						

Log Prepared By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 10, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 13, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-10D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	10:00	8:25	186.0'	Lithologic Description	Notes
20---						Wet

21---				PID: 800 ppm Odors detected		

22---						

23---				PID: 200 ppm Odors detected	23.0' - 24.0' Brown clay with pebbles	Wet

24---						

25---					24.0' - 34.0' Interbedded gray sandstone and red shale	Competent bedrock

26---						

27---						

28---				PID: 0.0 ppm in bedrock		

29---						

30---						

31---						

32---						

33---						

34---					34.0' - 38.0' Red shale to very fine-grained sandstone	End 10" roller bit Start 7.5" air hammer

35---						

36---						

37---						

38---				PID: 0.0 ppm	38.0' - 39.0' Gray sandstone	Dry

39---					39.0' - 39.3' Soft olive sandstone	

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 10, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 13, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-10D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	10:00	8:25	186.0'	Lithologic Description	Notes
40---			PID: 0.0 ppm		40.0' - 54.0'	Steady / dry
---					Gray medium-grained micaceous sandstone	
41---						

42---						

43---						

44---						

45---						Steady / dry

46---						Soft 46.5' - 46.8'

47---						

48---						

49---						Steady / dry

50---						

51---						

52---						

53---						

54---			PID: 0.0 ppm		54.0' - 55.0'	Soft
---					Soft brown sandstone	
55---					55.0' - 57.0'	
---					Chocolate brown sandstone	Very soft
56---						

57---			PID: 0.0 ppm		57.0' - 65.0'	
---					Gray medium-grained micaceous sandstone or quartzite	
58---						

59---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 10, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 13, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-10D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 4 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	10:00	8:25	186.0'	Lithologic Description	Notes
60---			PID: 0.0 ppm			

61---						

62---						Wait for water @ 62.0'
---						1310-1335 - dry
63---						

64---						

65---					65.0' - 68.0'	
---					Gray fine to medium-grained	
66---					sandstone change to red	
---					shale to sandstone ~ 67.5'	
67---						

68---			PID: 0.0 ppm		68.0' - 81.0'	Steady / dry
---					Red shale	
69---						

70---						

71---						

72---						

73---						

74---						

75---						

76---						

77---						Steady / dry
---			PID: 0.0 ppm			
78---						

79---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 10, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 13, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-10D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 5 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	10:00	8:25	186.0'	Lithologic Description	Notes
80---						
81---				PID: 0.0 ppm	81.0' - 82.0' Olive fine-grained sandstone	Soft / steady
82---					82.0' - 83.0' Gray fine-grained sandstone	Hard
83---					83.0' - 97.0' Red shale to very fine-grained sandstone	Steady drilling
84---						
85---						
86---						
87---						
88---						
89---						
90---						
91---						
92---						
93---						Steady drilling
94---						
95---						
96---						
97---				PID: 0.0 ppm	97.0' - 105.0' Gray fine to medium-grained sandstone	Steady / hard
98---						
99---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 10, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 13, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-10D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 7 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	10:00	8:25	186.0'	Lithologic Description	Notes
120---			PID: 0.0 ppm			Dry

121---						

122---						

123---						

124---						

125---						Steady / dry

126---						

127---						

128---			PID: 0.0 ppm	128.0' - 134.0'	Red shale	

129---						

130---						

131---						

132---						

133---						Steady / dry

134---				134.0' - 135.0'	Reddish-gray fine-grained micaceous sandstone	Wait for water @ 135.0'
---						1508-1530 - dry
135---						

136---			PID: 0.0 ppm	135.0' - 138.0'	Reddish-gray fine-grained sandstone grade into red shale	

137---						

138---				138.0' - 150.0	Red shale	Dry

139---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 10, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 13, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-10D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 8 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	10:00	8:25	186.0'	Lithologic Description	Notes
140---						

141---						Steady / dry

142---						

143---						

144---						

145---						

146---						

147---						

148---						

149---						

150---						

151---					150.0' - 153.0' Grayish-red, fine-grained micaceous sandstone	Steady / dry

152---						

153---					153.0' - 159.0' Red shale	

154---						

155---						

156---						

157---						

158---						Steady / dry

159---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 10, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 13, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-10D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 9 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	10:00	8:25	186.0'	Lithologic Description	Notes
160---					159.0' - 162.0'	Choppy @ 159' Wait for water @ 162' 1551-1620 - dry
---					Gray, medium-grained micaceous sandstone	
161---						

162---					PID: 0.0 ppm	

163---					162.0' - 172.0'	
---					Gray, medium-grained micaceous sandstone	
164---						

165---						

166---						

167---						

168---						

169---						

170---					PID: 0.0 ppm	

171---					170.0' - Thin bed brown sandstone	

172---					PID: 0.0 ppm	

173---					172.0' - 180.0'	
---					Red shale	
174---						

175---						175'-177' - Rapid / soft

176---						

177---						

178---						

179---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 10, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 13, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-10D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 10 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	10:00	8:25	186.0'	Lithologic Description	Notes
180---					180.0' - 182.0'	Wait for water @ 182' 1639-1700 Water in hole
---					Red shale	
181---						

182---					182.0' - 185.0'	
---					Red shale to gray shale	
183---						

184---						

185---					End of boring @ 185'	

186---						

187---						

188---						

189---						

190---						

191---						

192---						

193---						

194---						

195---						

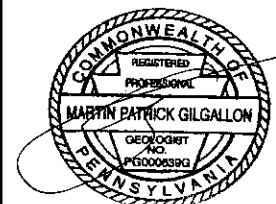
196---						

197---						

198---						

199---						

Log Prepared By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 7, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 8, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-11D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 7

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description		Lithologic Description	Notes
		11:45	10:30	128.0'		
---					0.0' - 6.0'	Drill 10" diameter roller bit 0' - 34'
1---					Topsoil, change to strong brown sand and silt with abundant sub-rounded to sub-angular pebbles and cobbles	
---						Dry
2---						

3---						

4---						

5---						

6---				PID: 0.0 ppm	6.0' - 6.5'	Dry to damp
---					Gray sandstone boulder	
7---						

8---					6.5' - 9.0'	
---					Reddish-brown sand, silt and clay with abundant pebbles and cobbles	
9---						

10---				PID: 0.0 ppm	9.0' - 10.0'	
---					Gray sandstone boulder	
11---					10.0' - 13.0'	Damp to moist
---					Reddish-brown sand, silt and clay with abundant pebbles and cobbles	
12---						

13---					13.0' - 17.0'	
---					Dark brown sand and silt with abundant sub-rounded pebbles and cobbles	
14---						

15---						Wet @ 15.0'

16---						

17---				PID: 0.0 ppm	17.0' - 23.0'	
---					Dark brown sand and silt with abundant sub-rounded pebbles and cobbles	
18---						

19---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 7, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 8, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-11D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 7

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
20---						

21---						

22---						

23---				23.0' - 24.0'		Wet
---				Dark reddish-brown sandy /		
24---				silty clay with sub-angular		
---				pebbles and cobbles		
25---						
---			PID: 0.0 ppm	24.0' - 34.0'		Competent bedrock
26---				Gray sandstone interbedded		
---				with red sandstone and shale		
27---						

28---						Dry in bedrock

29---						

30---						

31---						

32---						

33---						

34---				34.0' - 37.0'		End 10" roller bit
---				Gray sandstone interbedded		Start 7.5" air hammer
35---				with red sandstone and shale		

36---						

37---			PID: 0.0 ppm	37.0' - 39.0'		Dry
---				Reddish-gray shale to fine-		
38---				grained sandstone, grade into		
---				olive sandstone near 39.0'		
39---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 7, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 8, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-11D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 7

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
40---			PID: 0.0 ppm	39.0' - 45.0'	Steady / dry	
---				Gray to slightly olive gray		
41---				medium-grained micaceous		
---				sandstone		
42---						

43---						

44---						

45---			PID: 0.0 ppm	45.0' - 48.0'	Steady / dry	
---				Gray to slightly olive gray		
46---				medium-grained micaceous		
---				sandstone		
47---						

48---				48.0' - 49.0'	Soft	
---				Chocolate brown sandstone		
49---						

50---			PID: 0.0 ppm	49.0' - 58.0'		
---				Gray medium-grained		
51---				micaceous sandstone		

52---						

53---					53.5' - soft	

54---						

55---						

56---						

57---						

58---			PID: 0.0 ppm	58.0' - 58.5'	Soft in shale	
---				Gray shale		
59---				58.5' - 60.0'		
---				Red to reddish-gray, fine-	Soft in shale	
---				grained sandstone to shale		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 7, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 8, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-11D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 4 of 7

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
60---			PID: 0.0 ppm	60.0' - 65.0'		
---				Red to reddish-gray, fine-grained sandstone to shale		Wait for water @ 62.0'
61---						1700-1715 - dry

62---						

63---						

64---						

65---				65.0' - 68.0'		Steady / dry
---				Dark reddish-gray shale to very fine sandstone		
66---						

67---						

68---			PID: 0.0 ppm	68.0' - 77.0'		Steady / dry
---				Dark grayish-red, fine-grained micaceous sandstone		
69---						

70---						

71---						

72---						

73---						

74---						

75---						

76---						

77---			PID: 0.0 ppm	77.0' - 79.0'		
---				Gray very fine sandstone to shale		
78---						

79---				79.0' - 82.0'		Steady / dry
---				Gray medium-grained micaceous sandstone		

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 7, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 8, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-11D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 5 of 7

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
80---						
81---						
82---			PID: 0.0 ppm	82.0' - 91.0' Red shale to very fine sandstone		Let well sit overnite at 82.0'. Dry next day.
83---						
84---						
85---						
86---						
87---						
88---						
89---						
90---						
91---			PID: 0.0 ppm	91.0' - 96.0' Light red to gray shale to very fine sandstone		Steady / dry
92---						
93---						
94---						
95---						
96---				96.0' - 99.0' Red very fine sandstone		Steady / dry
97---						
98---						
99---			PID: 0.0 ppm	99.0' - 100.0' Red very fine sandstone		Soft

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 7, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 8, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-11D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 6 of 7

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
100---				100.0' - 112.0'		
---				Gray fine-grained sandstone		
101---						

102---						

103---						

104---						

105---						

106---						

107---						

108---						

109---						

110---						

111---						

112---				112.0' - 116.0'		
---				Greenish-gray fine-grained sandstone	Soft / moist	
113---						

114---						

115---						

116---				116.0' - 120.0'		
---				Light brown to tan, medium-grained sandstone	Soft / moist	
117---						

118---						

119---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 7, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 8, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-11D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 7 of 7

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
120---				120.0' - 121.0'		Moist - probable water bearing zone
---				Brown medium-grained sandstone		
121---				121.0' - 128.0'		End of boring @ 128.0'
---				Red very fine-grained sandstone to shale		
122---						

123---						

124---						

125---						

126---						

127---						

128---						

129---						

130---						

131---						

132---						

133---						

134---						

135---						

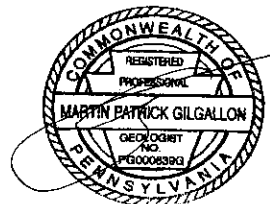
136---						

137---						

138---						

139---						

Log Prepared By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
---					0.0' - 2.0'	Drill 10" diameter roller bit 0' - 32'
1---					Top soil	
---						Grass surface
2---					2.0' - 3.0'	
---					Gray sandstone boulder	
3---						
---					3.0' - 8.0'	
4---					Light to strong brown sand and silt with pebbles and cobbles	

5---						

6---						

7---						

8---					8.0' - 8.5'	Dry
---					Gray sandstone boulder	
9---						
---					8.5' - 13.0'	
10---					Dark reddish-brown sand with abundant pebbles, cobbles and boulders	

11---						

12---						

13---					13.0' - 17.0'	Hard / choppy
---					Gray sandstone boulders and cobbles	
14---						Wet near 14.0'

15---						

16---						

17---					17.0' - 20.0'	Wet
---					Dark brown clayey sand with pebbles and cobbles	
18---						

19---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
20---					20.0' - 23.0'	
---					Dark reddish-brown clayey sand w/ abundant sub-rounded pebbles and cobbles	
21---						

22---						

23---					PID: 0.0 ppm 23.0' - 30.5'	Competent bedrock
---					Gray fine to medium-grained sandstone	
24---						

25---						

26---						

27---						

28---						

29---						

30---						

31---					30.5' - 31.0'	
---					Red shale	
32---						

33---					31.0' - 34.0'	End 10" roller bit Start 7.5" air hammer
---					Gray fine to medium-grained micaceous sandstone	
34---					PID: 0.0 ppm 34.0' - 35.0'	
---					Red shale	
35---						

36---					35.0' - 38.0'	
---					Gray fine to medium-grained micaceous sandstone	
37---						

38---					PID: 0.0 ppm 38.0' - 40.0'	Dry
---					Red shale	
39---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
40---					40.0' - 43.5'	
---					Red shale to very fine-grained sandstone	
41---						

42---						

43---						
---					PID: 0.0 ppm	
44---					43.5' - 46.0'	Steady / dry
---					Very dark red fine to medium-grained sandstone	
45---						

46---					46.0' - 53.0'	Steady / dry
---					Red shale to very fine-grained sandstone	
47---						

48---						

49---						

50---						

51---						

52---						

53---					PID: 0.0 ppm	
---					53.0' - 58.0'	Steady / dry
54---					Interbedded gray fine to medium-grained sandstone	

55---						

56---						

57---						

58---					58.0' - 59.0'	Soft
---					Dark brownish-red shale	
59---						
---					PID: 0.0 ppm	
					59.0' - 61.0'	Steady
					Gray fine to medium sandstone	

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 4 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
60---						
61---			PID: 0.0 ppm		61.0' - 66.0' Gray fine to medium-grained micaceous sandstone	Steady / dry
62---						
63---						
64---						
65---						
66---			PID: 0.0 ppm		66.0' - 70.0' Olive medium-grained sandstone interbedded with very fine gray sandstone	Soft 66.0' - 66.3'
67---						
68---						
69---						
70---					70.0' - 73.0' Gray to slightly olive-gray medium-grained sandstone	Steady / dry
71---						
72---						
73---			PID: 0.0 ppm		73.0' - 74.0' Gray medium-grained sandstone	
74---					74.0' - 76.0' Chocolate brown sandstone	Soft / dry
75---					76.0' - 77.5' Olive medium-grained sandstone	
76---						
77---			PID: 0.0 ppm		77.5' - 78.0' Brown sandstone	Soft
78---					78.0' - 80.0' Chocolate brown sandstone	Soft
79---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 5 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
80---			PID: 0.0 ppm	80.0' -81.0'	Gray to dark gray fine-grained sandstone	Wait for water @ 81.0' 1137-1230 - Dry

81---				81.0' - 84.0'		

82---				Gray to blue-gray fine-grained sandstone		

83---						

84---				84.0' - 90.0'		

85---				Gray fine to medium-grained micaceous sandstone	Steady / dry	

86---						

87---						

88---						

89---						

90---			PID: 0.0 ppm	90.0' - 93.5'	Steady / dry	

91---				Gray fine to medium-grained micaceous sandstone grade into dark red-gray sandstone		

92---						

93---						

94---				93.5' - 104.0'		
---				Red shale to very fine sandstone		
95---						

96---						

97---						

98---						

99---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 6 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
100---						

101---						

102---						

103---						

104---					104.0' - 105.0'	Steady / dry
---					Very dark reddish-gray fine	
105---					to medium sandstone	
---					105.0' - 108.0'	
106---					Gray fine to medium-grained	
---					sandstone	
107---						

108---					108.0' - 112.0'	Steady
---					Red shale	
109---						

110---						

111---						

112---					112.0' - 117.0'	Steady / dry
---					Dark grayish-red fine to	
113---					medium-grained sandstone	

114---						

115---						

116---						

117---					117.0' - 120.0'	Drilling somewhat
---					Dark gray fine to medium-	choppy 112.0' - 121.0'
118---					grained micaceous	
---					sandstone	
119---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 7 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
120---					120.0' - 127.0'	Wait for water @ 121'
---					Dark red shale	1256-1317 - Dry
121---						

122---						

123---						

124---						

125---						

126---						

127---			PID: 0.0 ppm		127.0' - 133.0'	Steady / hard
---					Dark gray fine-grained micaceous sandstone	
128---						

129---						

130---						

131---						Soft @ 131'

132---						

133---					133.0' - 144.0'	Steady / dry
---					Gray fine-grained micaceous sandstone	
134---						

135---						

136---						

137---						

138---						

139---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 8 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
140---						

141---						

142---						

143---						

144---				PID: 0.0 ppm	144.0' - 145.5'	Steady / hard
---					Gray to blue medium-grained micaceous sandstone	
145---					145.5' - 148.5'	
---					Olive gray medium sandstone interbedded with blue-gray sandstone at 147.0'	
146---						

147---						

148---					148.5' - 151.0'	
---					Olive-gray fine sandstone	
149---						

150---						

151---				PID: 0.0 ppm	151.0' - 156.0'	Steady / dry
---					Dark red fine to medium-grained sandstone	
152---						

153---						

154---						

155---						

156---				PID: 0.0 ppm	156.0' - 158.0'	
---					Gray fine-grained micaceous sandstone	
157---						

158---				PID: 0.0 ppm	158.0' - 160.0'	Steady
---					Dark red shale	
159---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 9 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
160---					160.0' - 172.0' Interbedded red shale and dark grayish-red fine sandstone	Wait for water @ 161' 1349-1415 - Dry

161---						

162---						

163---						

164---						

165---					172.0' - 176.0' Reddish-gray fine-grained micaceous sandstone	Hard

166---						

167---						

168---				PID: 0.0 ppm		

169---						

170---					176.0' - 180.0' Dark red shale to very fine-grained sandstone	Choppy 174'-174.5'

171---						

172---						

173---						

174---						

175---					176.0' - 180.0' Dark red shale to very fine-grained sandstone	

176---				PID: 0.0 ppm		

177---						

178---						

179---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 10 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	8:25	13:10	201.0'	Lithologic Description	Notes
180---			PID: 0.0 ppm	180.0' - 192.0'	Dark gray to gray medium-grained micaceous sandstone	Wait for water @ 181' 1434-1452 - Dry

181---						

182---						

183---						

184---						

185---						Steady / hard

186---						

187---						

188---						Choppy @ 188'

189---						

190---						

191---						

192---			PID: 0.0 ppm	192.0' - 200.0'	Brown sandstone	Soft, rapid drilling Water observed entering borehole Driller estimate 8-10 gpm Probable water bearing zone @ 192.0'

193---						

194---						

195---						

196---						

197---						

198---						

199---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 14, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 14, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-12D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 11 of 11

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
200---		8:25	13:10	201.0'	200.0' - 201.0'	
---					Brown sandstone	
201---					End of boring @ 201'.	

202---						

203---						

204---						

205---						

206---						

207---						

208---						

209---						

210---						

211---						

212---						

213---						

214---						

215---						

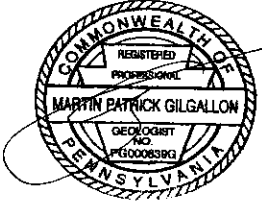
216---						

217---						

218---						

219---						

Log Prepared By:
Martin Gilgallon, P.G.



Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 1 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
---		11:50	16:00	182.0'		
1---			PID: 0.0 ppm	0.0' - 19.0' Brown to strong brown sand and silt with some clay and abundant sub-rounded to sub-angular pebbles, cobbles and boulders	Drill 10" diameter roller bit 0' - 32'	
2---						
3---						
4---						
5---						
6---						
7---						
8---						
9---						
10---						
11---						
12---						
13---						
14---						
15---						PID: 0.0 ppm
16---						
17---						
18---						
19---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 2 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	11:50	16:00	182.0'	Lithologic Description	Notes
20---			PID: 0.0 ppm		20.0' - 29.0'	
---					Interbedded gray and red	
21---					fine-grained sandstone and	
---					red shale	
22---						

23---						

24---						

25---						

26---						

27---						

28---						

29---			PID: 0.0 ppm		29.0' - 31.0'	End 10" roller bit
---					Gray fine-grained sandstone	Start 7.5" air hammer
30---						

31---					31.0' - 37.0'	
---					Red shale to very fine-grained	
32---					sandstone	

33---						

34---						

35---						

36---						

37---			PID: 0.0 ppm		37.0' - 39.0'	Steady / dry
---					Grayish-red fine-grained	
38---					sandstone	

39---					39.0' - 41.0'	
---					Red shale	

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 3 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	11:50	16:00	182.0'	Lithologic Description	Notes
40---						
41---				PID: 0.0 ppm	41.0' - 48.0' Red to dark red shale	
42---						
43---						
44---						Choppy 44' - 44.3' Dry
45---						
46---						
47---						
48---					48.0' - 50.0' Dark reddish-gray fine-grained sandstone	
49---						
50---				PID: 0.0 ppm	50.0' - 54.0' Gray to reddish-gray fine- grained sandstone	
51---						
52---						
53---						
54---					54.0' - 57.0' Dark gray fine to medium- grained micaceous sandstone	Soft 54' - 57'
55---						
56---						
57---				PID: 0.0 ppm	57.0' - 60.0' Olive-gray medium-grained sandstone	
58---						
59---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 4 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
60---			PID: 0.0 ppm	60.0' - 62.0'	Soft	
---				Chocolate brown sandstone		
61---						

62---				62.0' - 67.0'	Steady / dry	
---				Olive gray fine to medium-		
63---				grained sandstone		

64---						

65---						

66---						

67---			PID: 0.0 ppm	67.0' - 78.0'	Steady / dry	
---				Gray fine-grained micaceous		
68---				sandstone		

69---						

70---					Hard / steady	

71---						

72---						

73---						

74---						

75---						

76---					Choppy 76.5' - 77.0'	
---					Dry	
77---						

78---			PID: 0.0 ppm	78.0' - 80.0'	Rapid drilling in shale	
---				Gray shale		
79---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 5 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	11:50	16:00	182.0'	Lithologic Description	Notes
80---					80.0' - 82.0'	Soft
---					Brown sand	
81---						

82---			PID: 0.0 ppm		82.0' - 83.0'	Soft / steady drilling
---					Reddish-gray fine-grained sandstone	
83---						
---					83.0' - 89.0'	
84---					Red shale	

85---						

86---						

87---						

88---						

89---			PID: 0.0 ppm		89.0' - 96.0'	Hard
---					Interbedded reddish-gray fine-grained sandstone and shale	
90---						

91---						

92---						

93---						

94---						

95---						

96---					96.0' - 98.0'	Hard / steady
---					Dark gray to gray fine-grained micaceous sandstone	
97---						

98---			PID: 0.0 ppm		98.0' - 102.0'	
---					Red shale	
99---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 6 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	11:50	16:00	182.0'	Lithologic Description	Notes
100---						

101---						

102---					102.0' - 104.0'	
---					Dark reddish-gray fine-grained	
103---					sandstone	

104---					104.0' - 108.0'	
---					Very dark red shale	
105---						

106---						Choppy 106'

107---						

108---					PID: 0.0 ppm	Choppy 107.5

109---					108.0' - 120.0'	
---					Interbedded red shale and	
110---					dark grayish-red fine-grained	Soft 108'-109'
---					sandstone	
111---						

112---						

113---						

114---						

115---						

116---						

117---						

118---						

119---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 7 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
120---			PID: 0.0 ppm	120.0' -127.0'	Wait for water @ 122' 1600-1618 - Dry	
---				Gray medium-grained micaceous sandstone		
121---						

122---						

123---						

124---						

125---					Soft / shippy 127' - 131.5'	
126---						
127---			PID: 0.0 ppm	127.0' - 131.0'		
---				Gray fine-medium sandstone		
128---						
129---					Choppy @ 134' Hard steady 134'-137'	

130---						

131---			PID: 0.0 ppm	131.0' - 138.0		
---				Olive medium-grained sandstone		
132---						

133---						

134---					Choppy @ 134' Hard steady 134'-137'	

135---						

136---						

137---					Hard steady 134'-137'	

138---			PID: 0.0 ppm	138.0' - 142.0'		
---				Gray fine to medium-grained micaceous sandstone		
139---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 8 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	11:50	16:00	182.0'	Lithologic Description	Notes
140---						

141---						

142---			PID: 0.0 ppm		142.0' - 148.0'	Wait for water @ 142'
---					Red shale to very fine-grained	1635-1646 - Dry
143---					sandstone	

144---						

145---						

146---						

147---						

148---			PID: 0.0 ppm		148.0' - 160.0'	Steady / soft in shale
---					Dark red shale	
149---						

150---						

151---						

152---						

153---						

154---						

155---						

156---						

157---						

158---						

159---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 9 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	11:50	16:00	182.0'	Lithologic Description	Notes
160---					160.0' - 165.0'	
---					Dark red to grayish-red shale	
161---						

162---						

163---						

164---						

165---					165.0' - 167.0'	
---					Gray medium sandstone	Soft
166---						

167---					167.0' - 171.0'	
---					Red shale	
168---						

169---						

170---						

171---					171.0' - 174.0'	
---					Dark grayish-red fine-grained sandstone	Soft / water @ 172'
172---						

173---						

174---					174.0' - 180.0'	
---					Gray fine-grained micaceous sandstone	Soft @ 174'
175---						

176---						

177---						

178---						

179---						

Pennsylvania Tectonics, Inc.

TEST BORING LOG

Project: Lewis Brothers Garage	Date Started: April 19, 2010
Client: Mrs. Ruth Lewis	Date Finished: April 19, 2010
Purpose: Bedrock Monitoring Well Installation	
Contractor: Eichelbergers, Inc.	Boring Number: MW-13D
Driller: Chris Kurtz	Job Number: 27058.08
Geologist: Martin Gilgallon, P.G.	Sheet: 10 of 10

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Dept (feet)	Sample No's	Blow Counts	Visual Log Description		Lithologic Description	Notes
180---				182.0'		

181---						

182---					180.0' - 182.0'	
---					Dark brown to red shale	
183---						

184---						

185---						

186---						

187---						

188---						

189---						

190---						

191---						

192---						

193---						

194---						

195---						

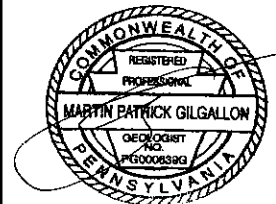
196---						

197---						

198---						

199---						

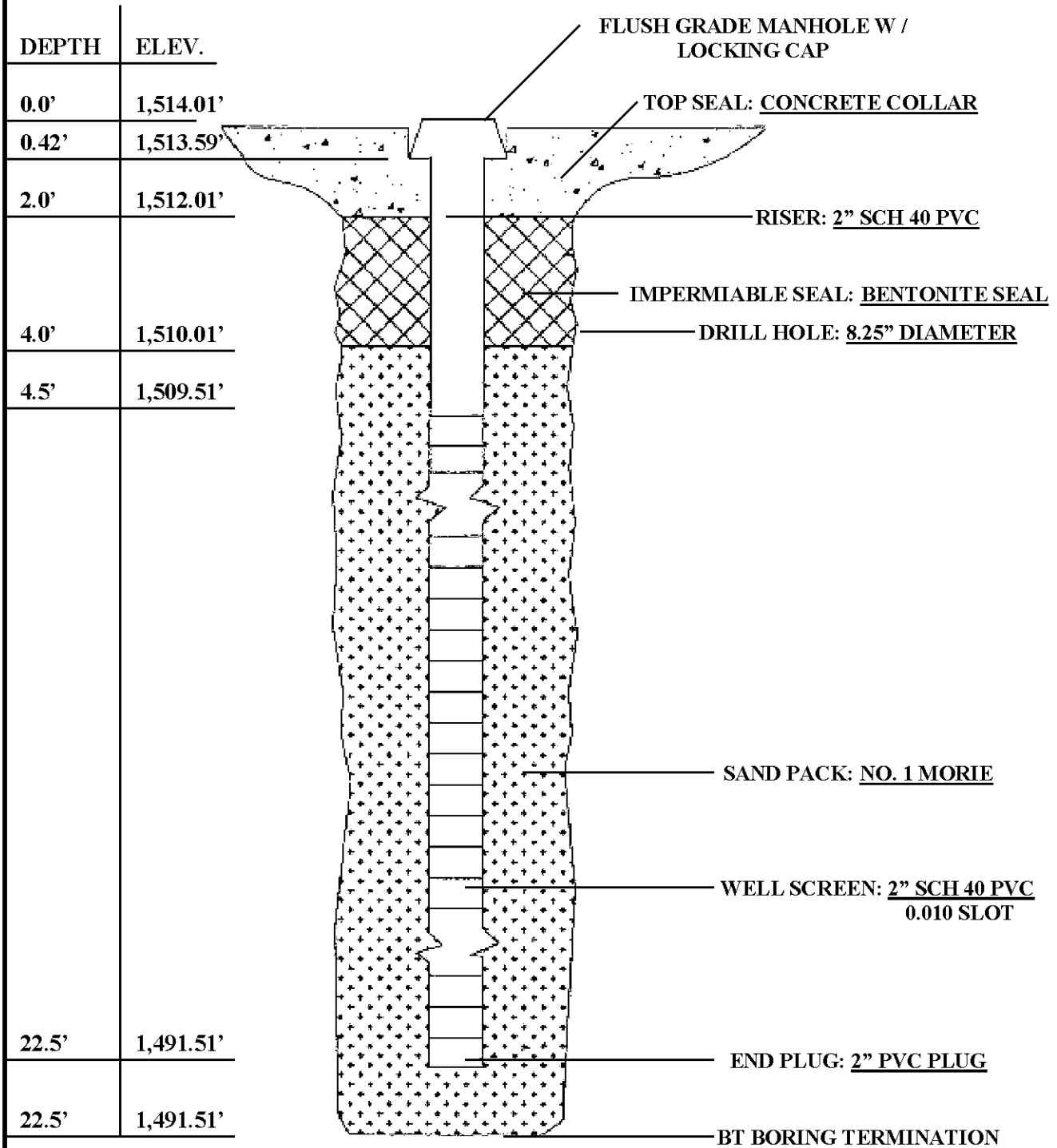
Log Prepared By:
Martin Gilgallon, P.G.



APPENDIX N

Monitoring Well Construction Details

MONITORING WELL CONSTRUCTION DETAIL

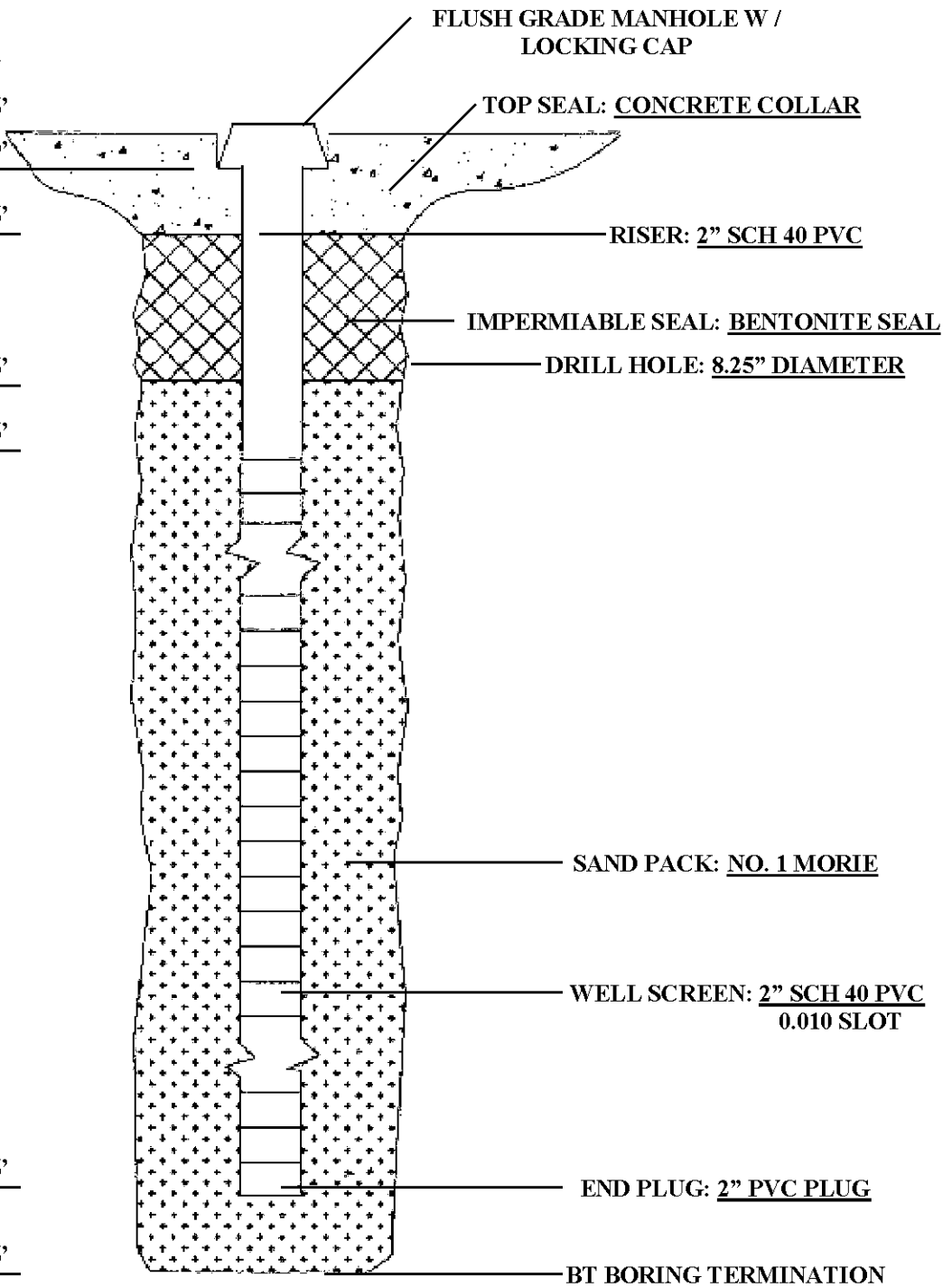


NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 1S**

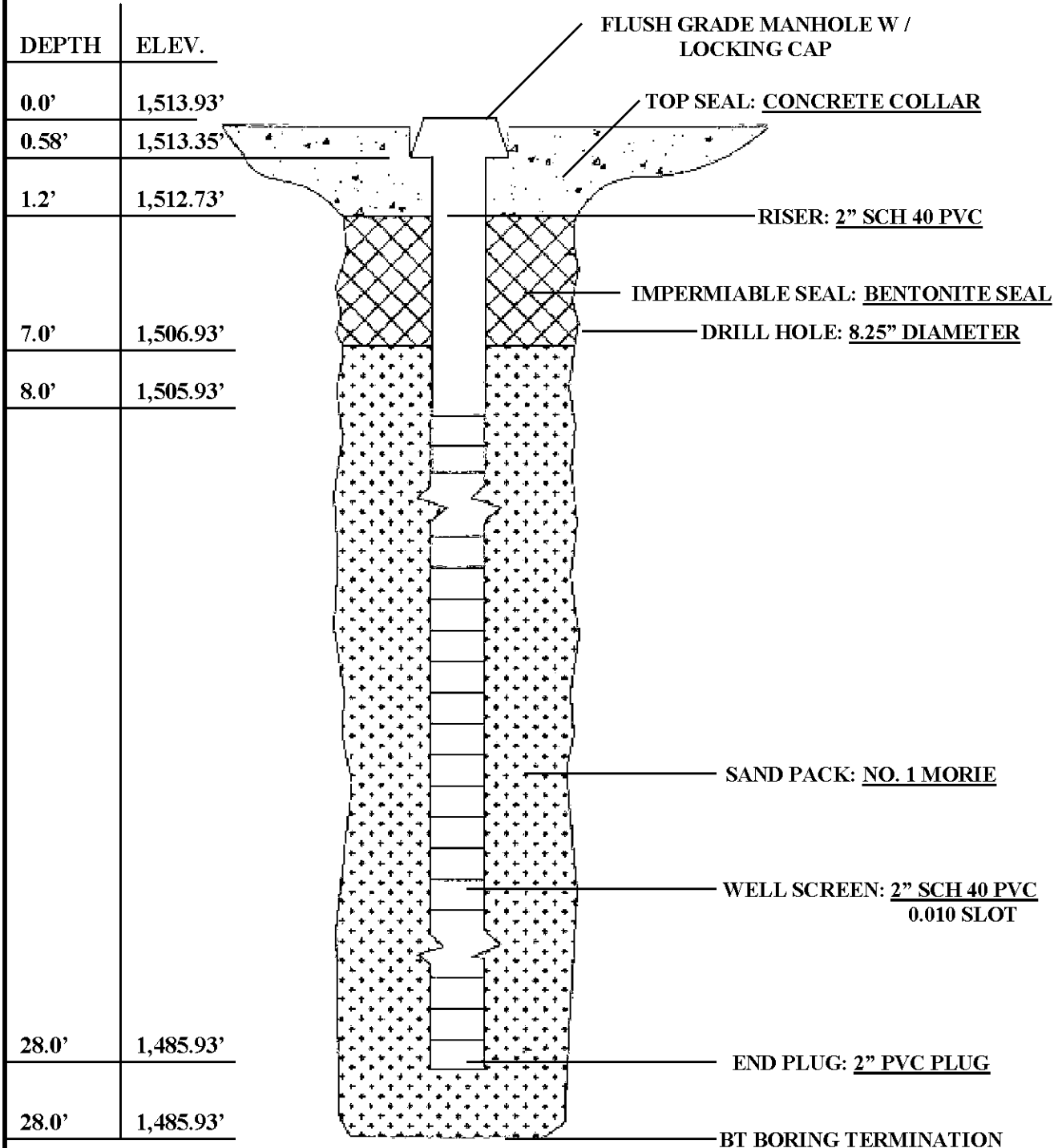
MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.0'	1,514.06'
0.37'	1,513.69'
1.5'	1,512.56'
9.8'	1,504.26'
10.0'	1,504.06'
30.0'	1,484.06'
30.0'	1,484.06'



**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 2S**

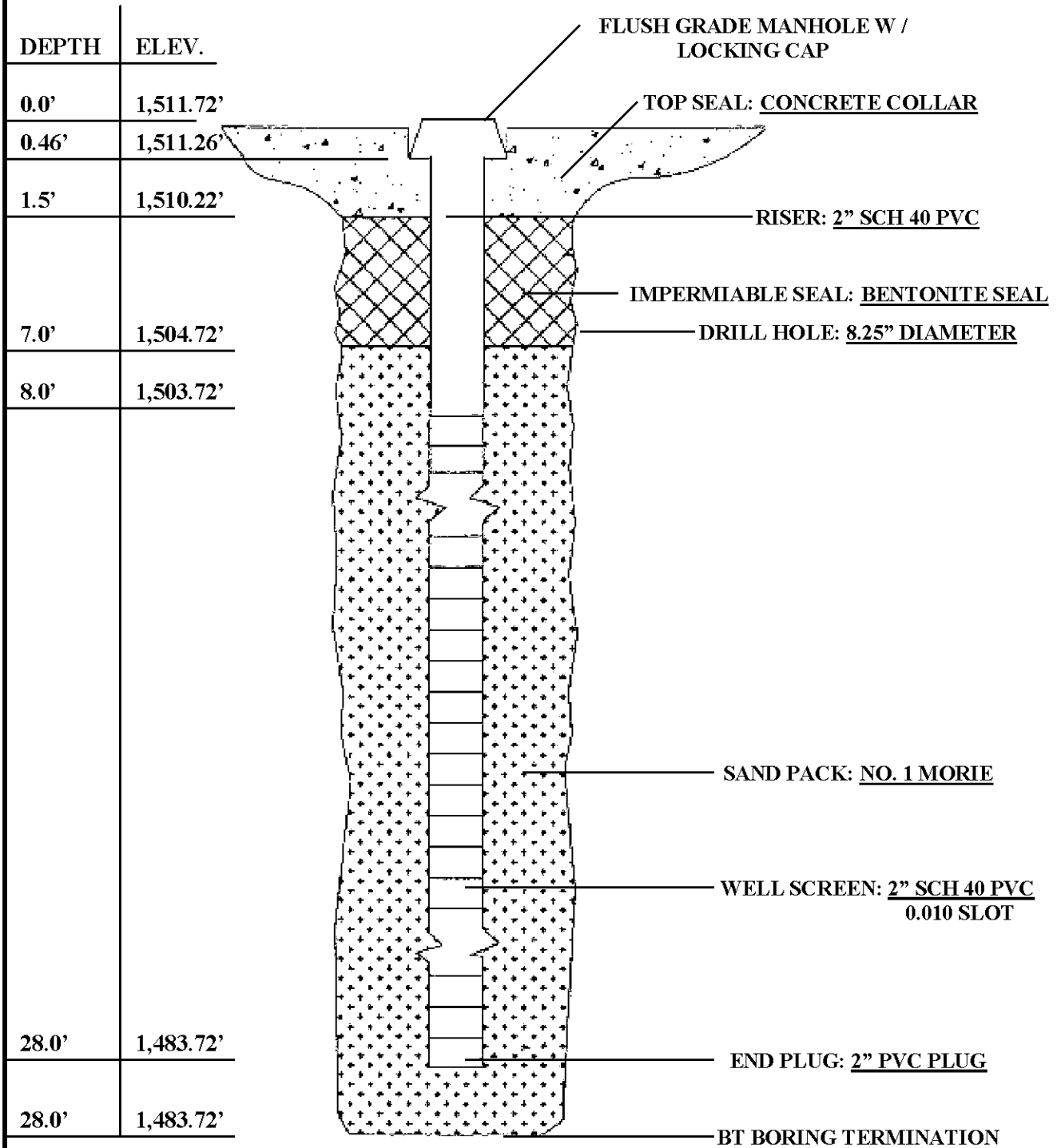
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 3S**

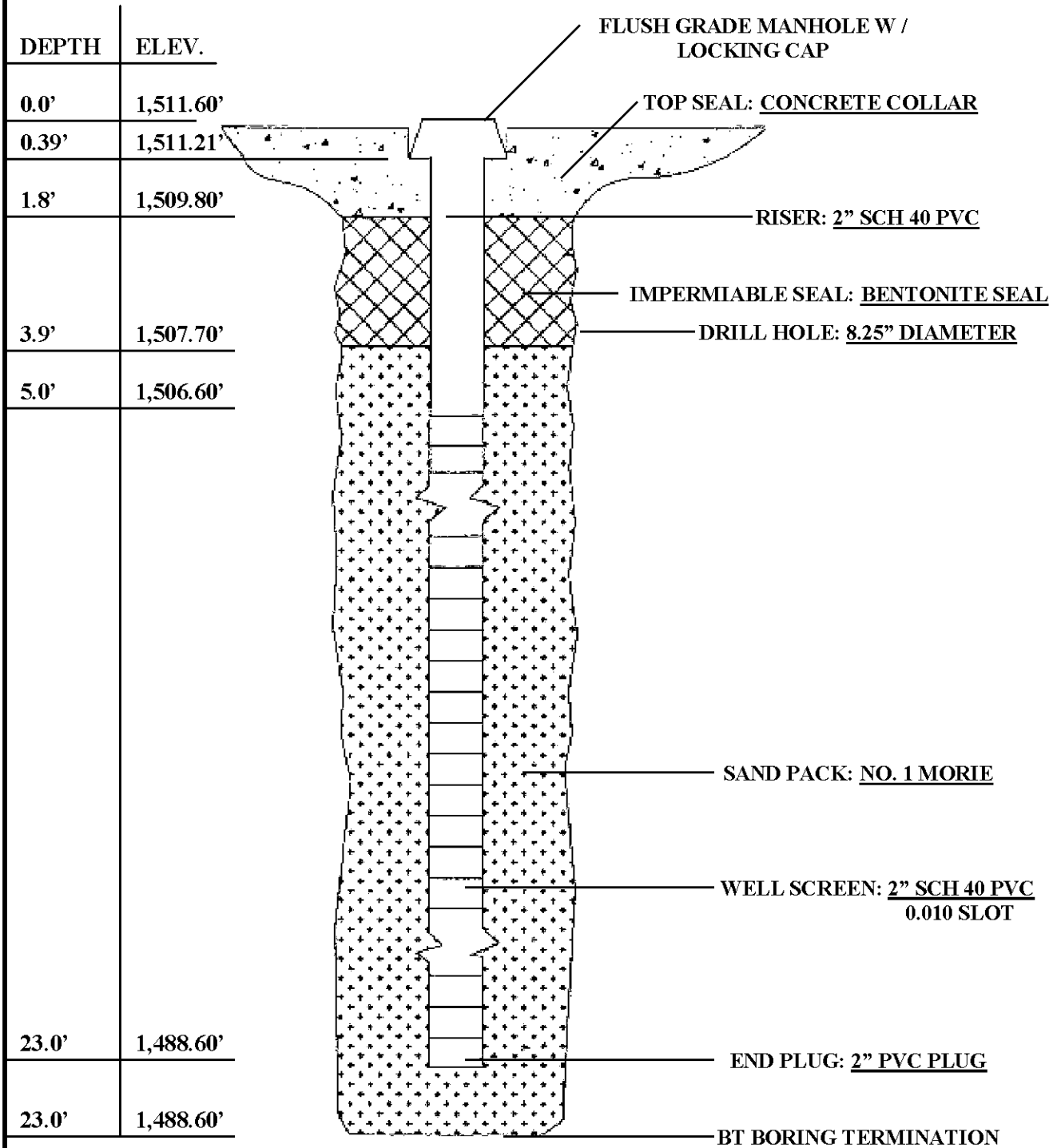
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 4S**

MONITORING WELL CONSTRUCTION DETAIL

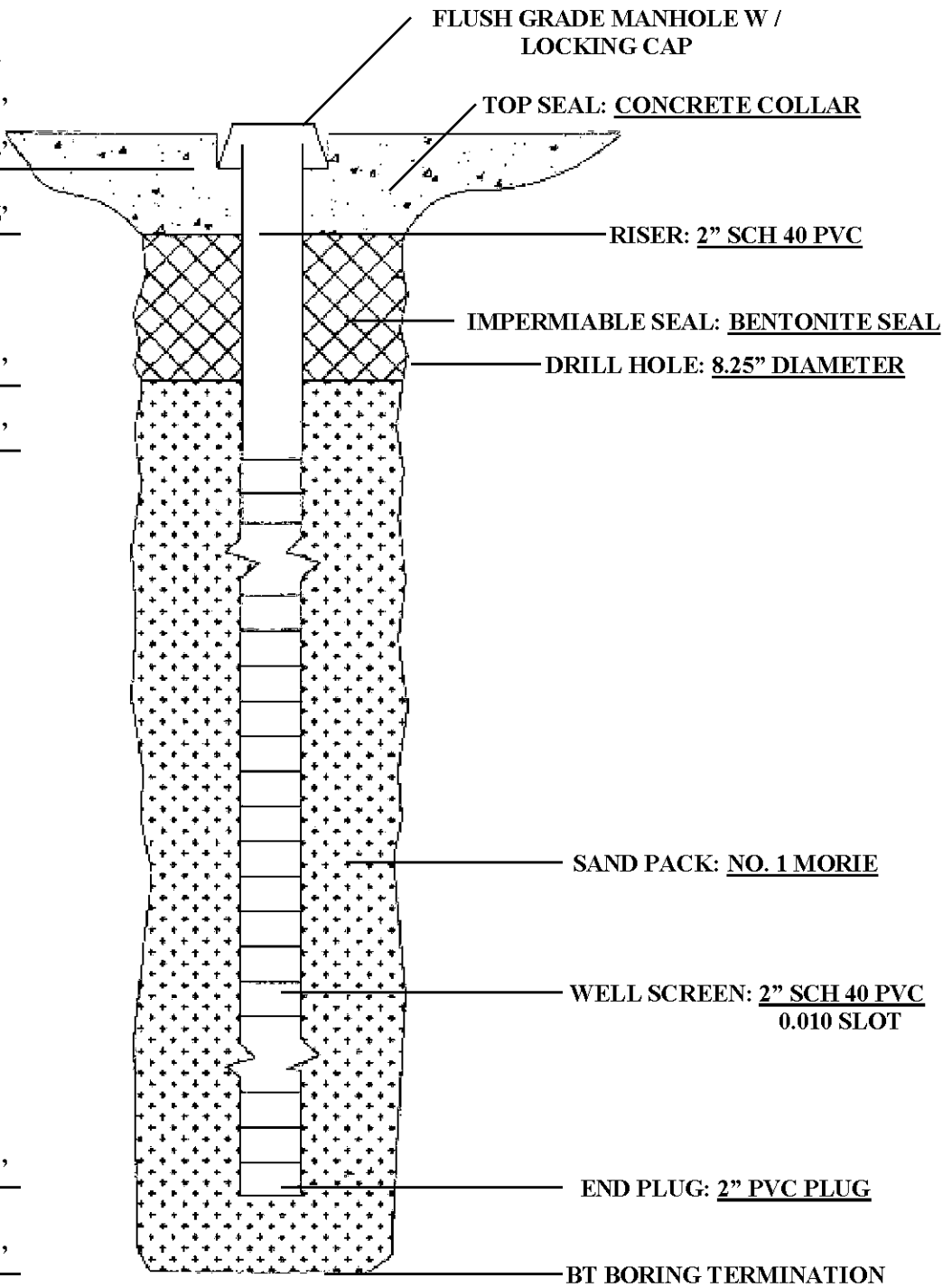


NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 5S**

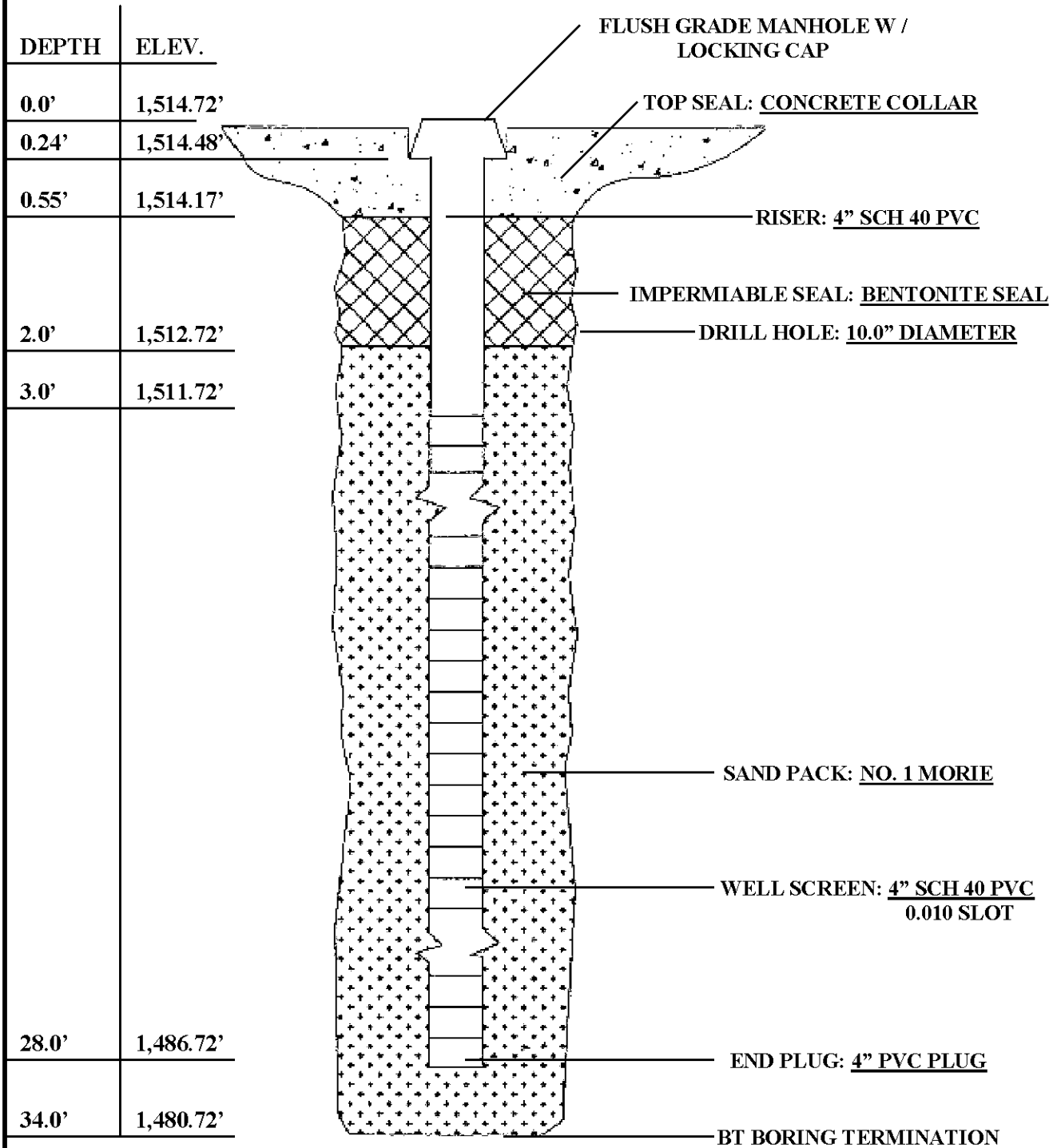
MONITORING WELL CONSTRUCTION DETAIL

DEPTH	ELEV.
0.0'	1,515.91'
0.47'	1,515.44'
0.55'	1,515.36'
1.0'	1,514.91'
2.0'	1,513.91'
17.0'	1,498.91'
25.0'	1,490.91'



**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 6S**

MONITORING WELL CONSTRUCTION DETAIL

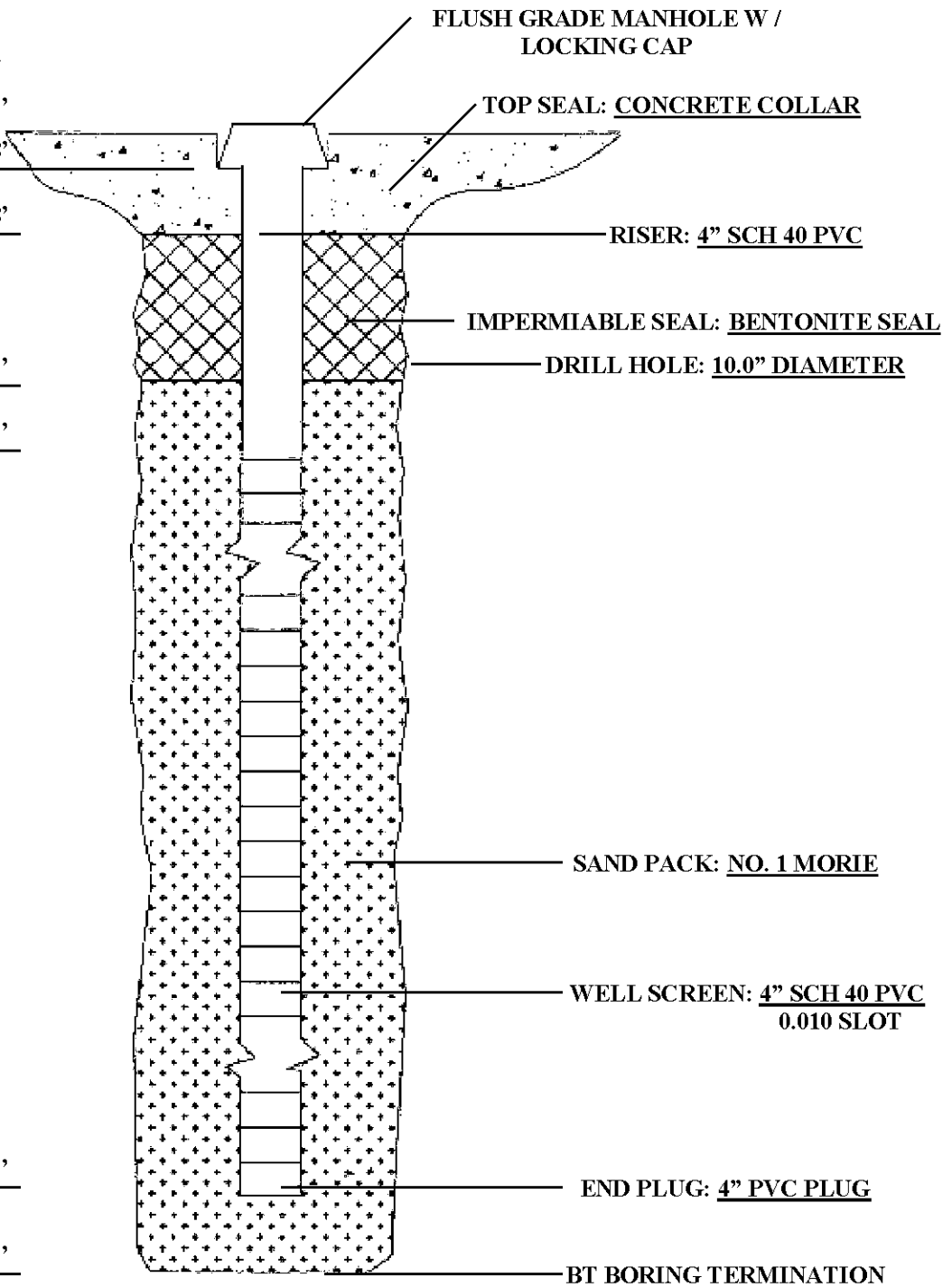


NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 7S**

MONITORING WELL CONSTRUCTION DETAIL

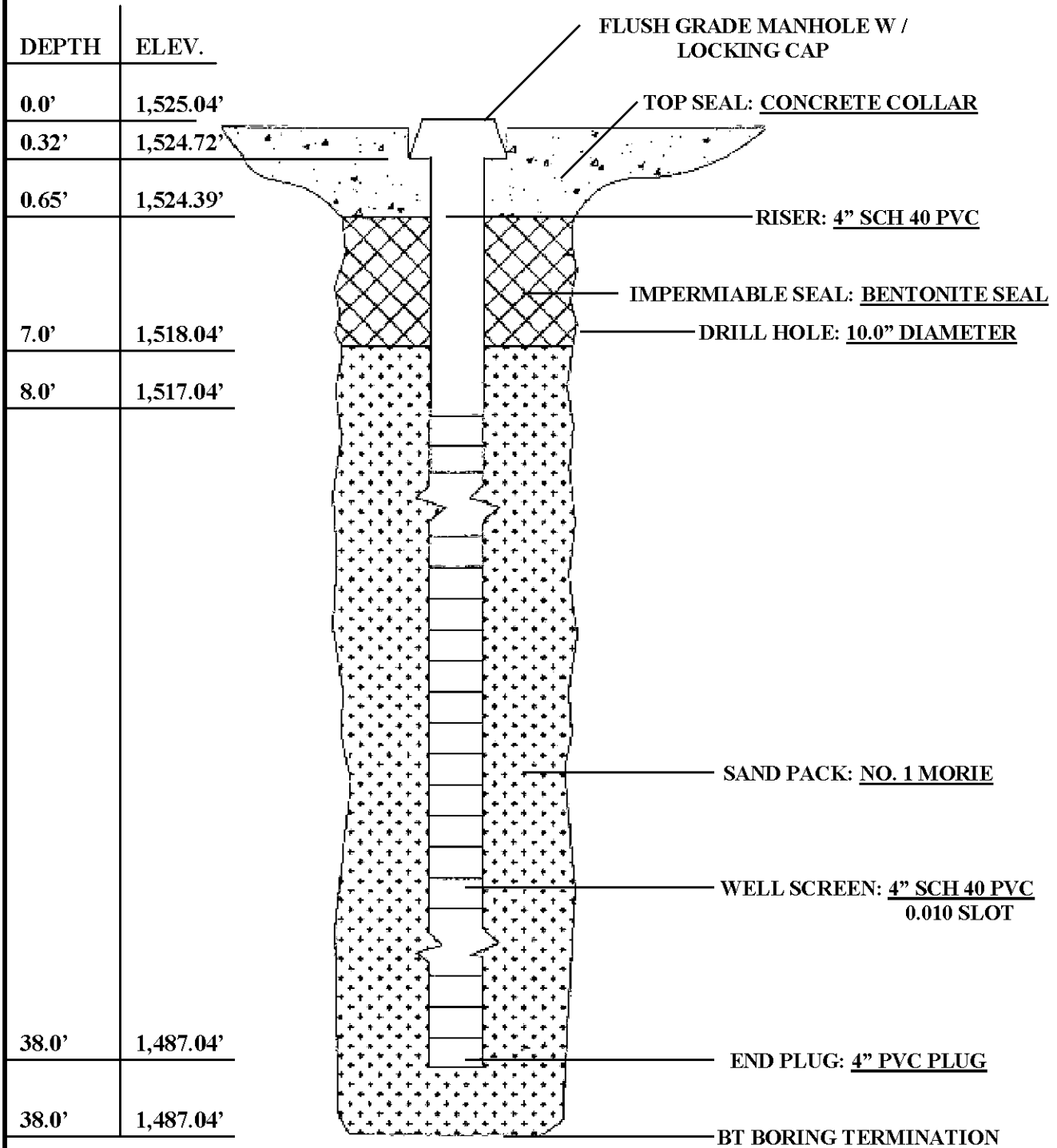
DEPTH	ELEV.
0.0'	1,526.83'
0.45'	1,526.38'
0.55'	1,526.28'
2.0'	1,524.83'
3.0'	1,523.83'
23.0'	1,503.83'
24.0'	1,502.83'



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 8S**

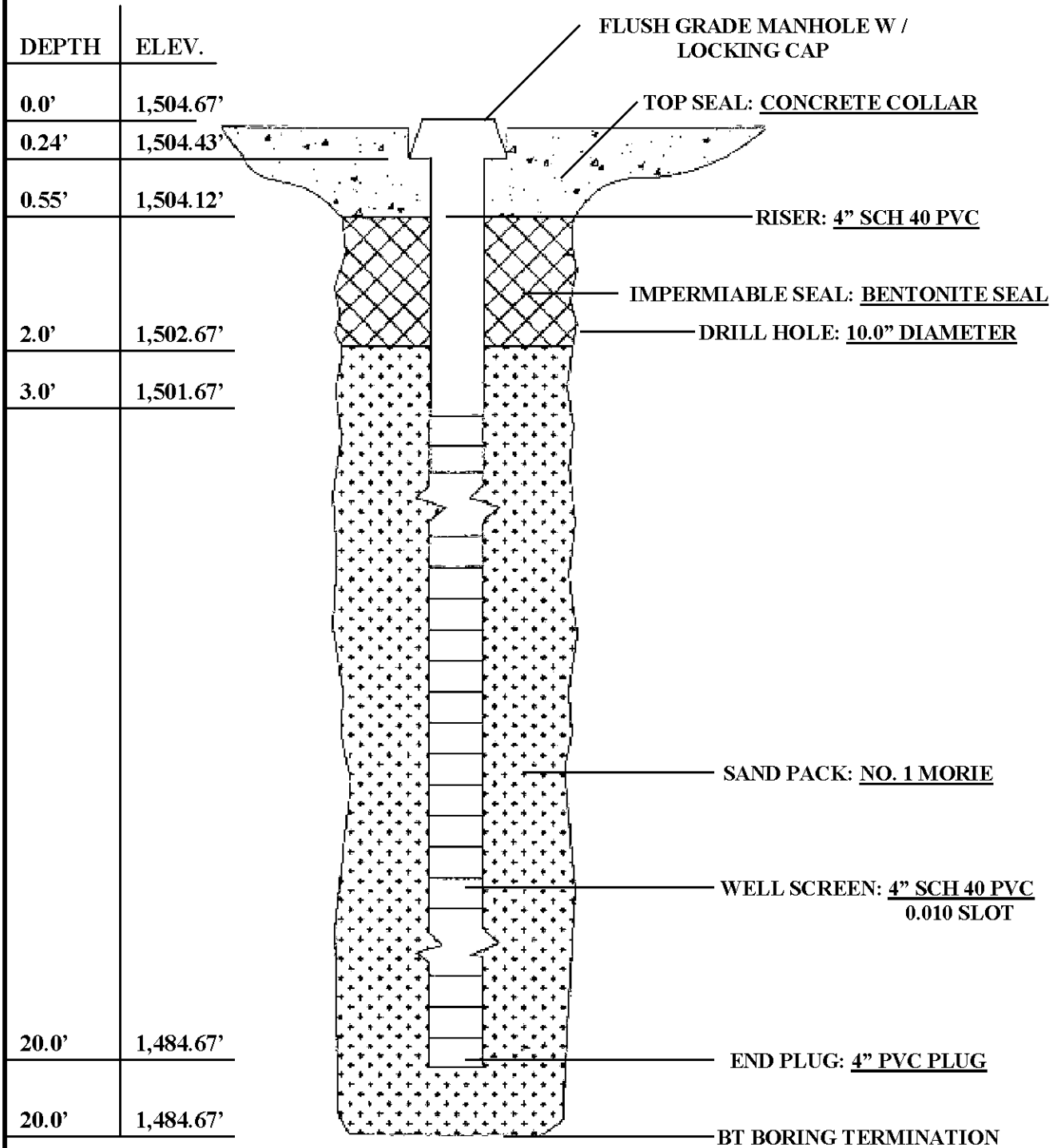
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 9S**

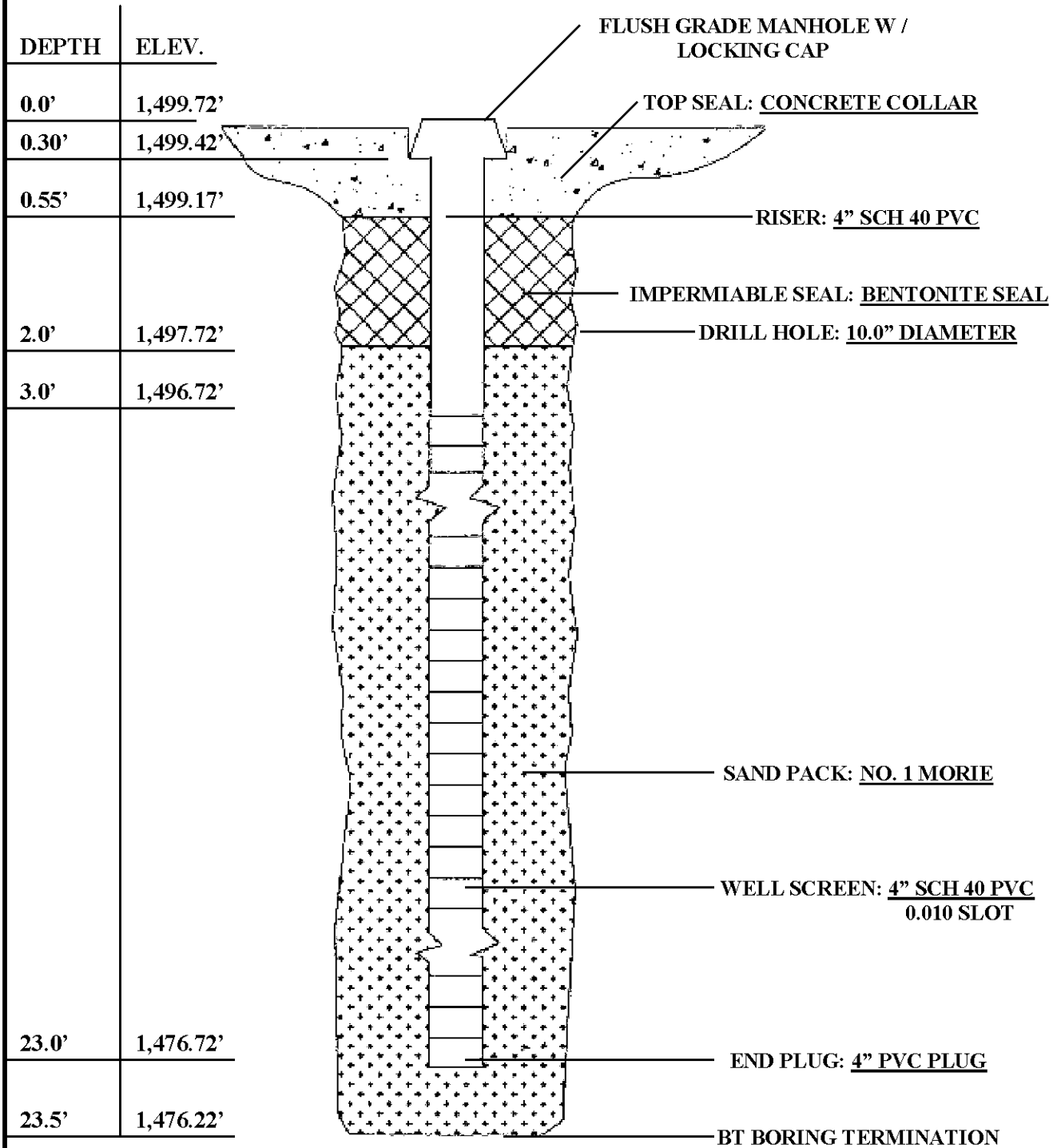
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 10S**

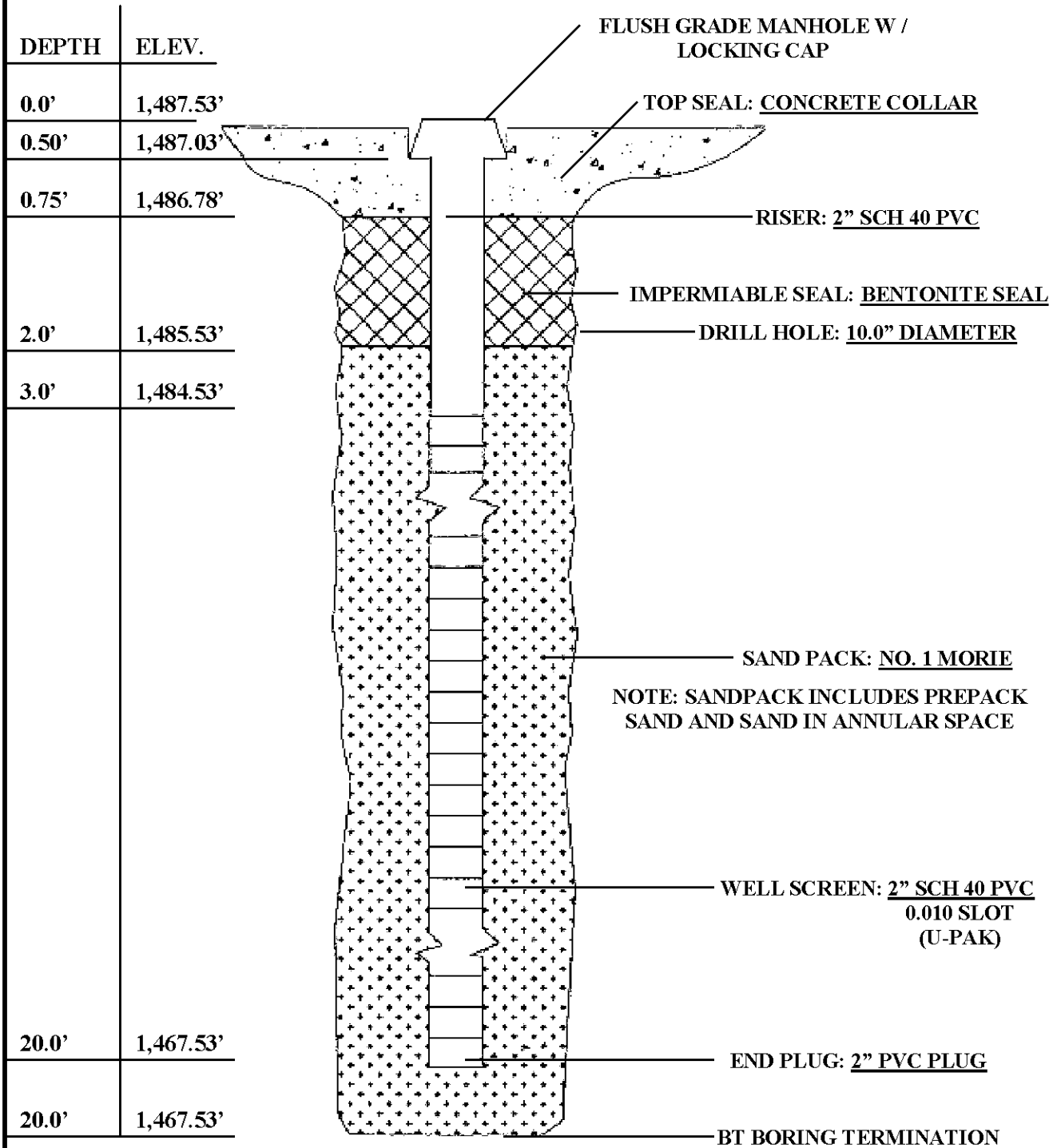
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 11S**

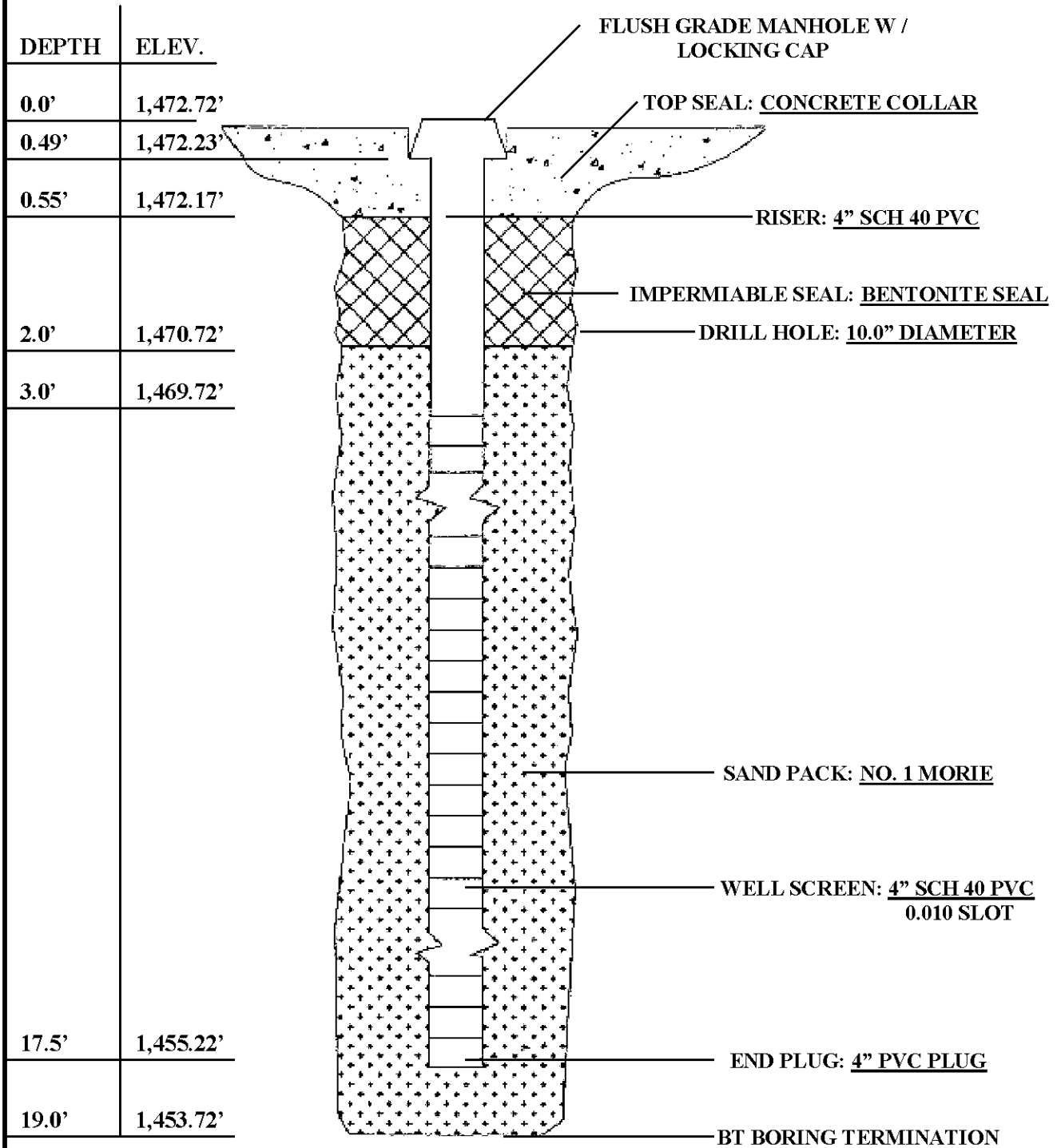
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 12S**

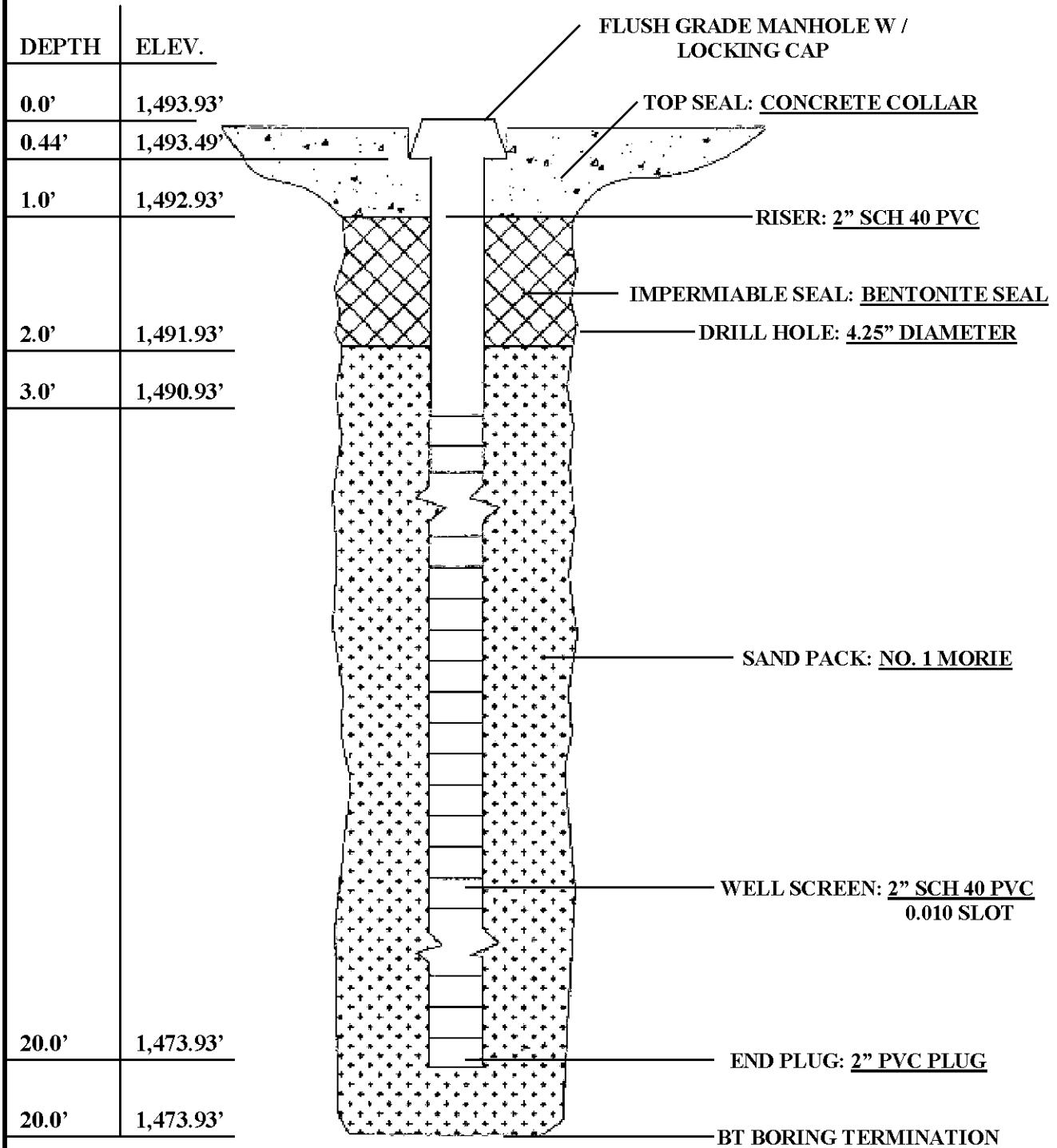
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 13S**

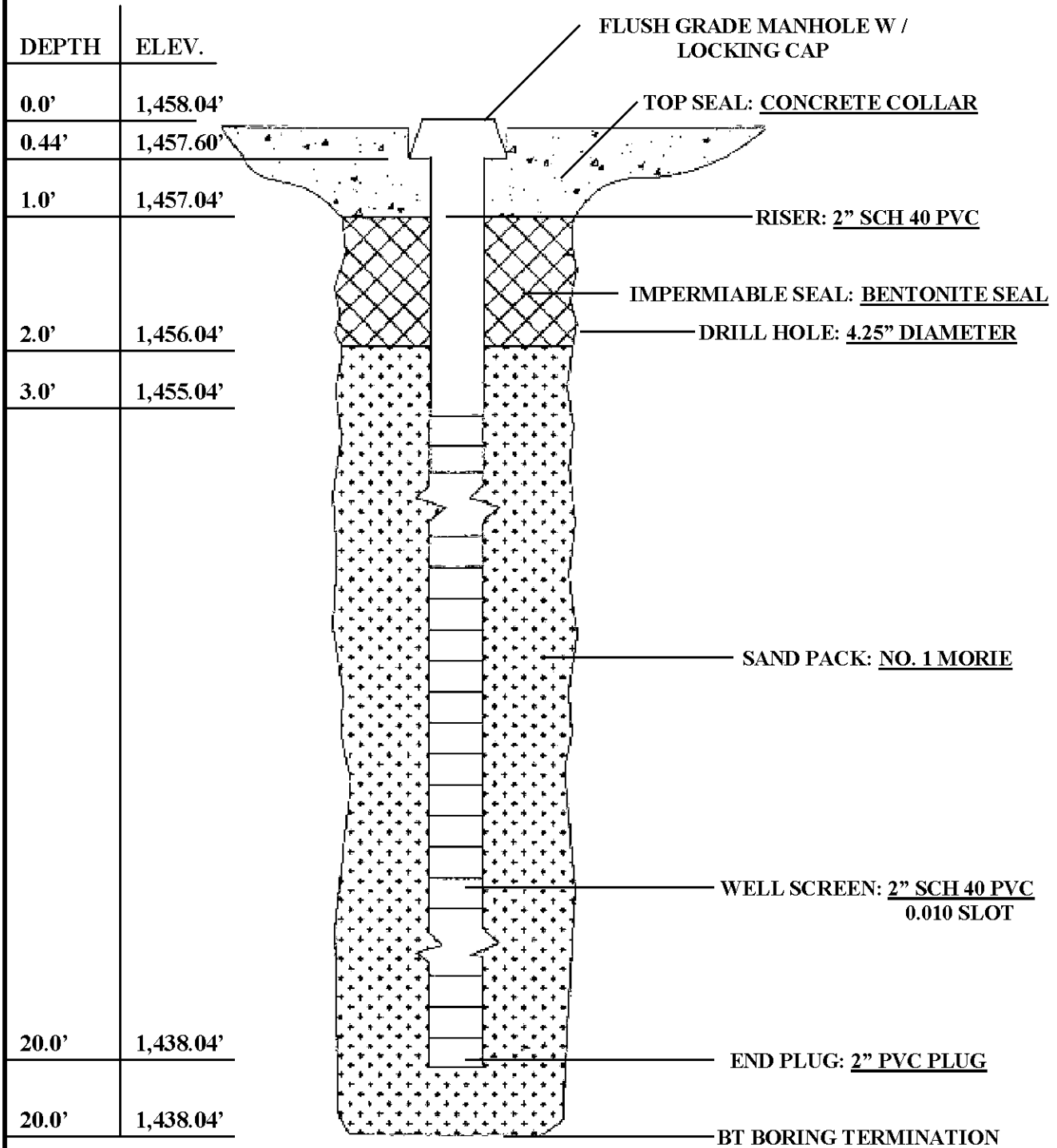
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 14S**

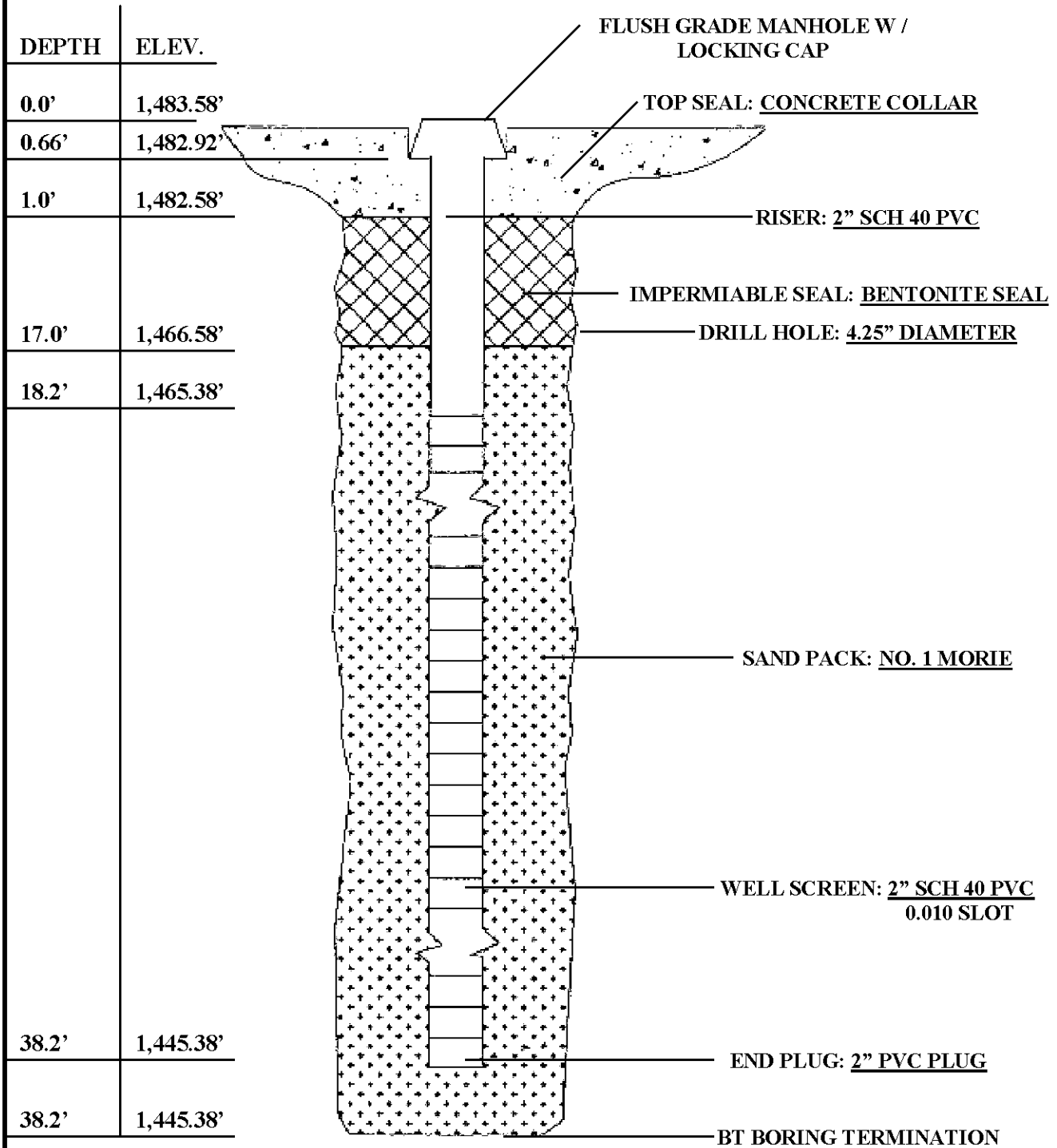
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 15S**

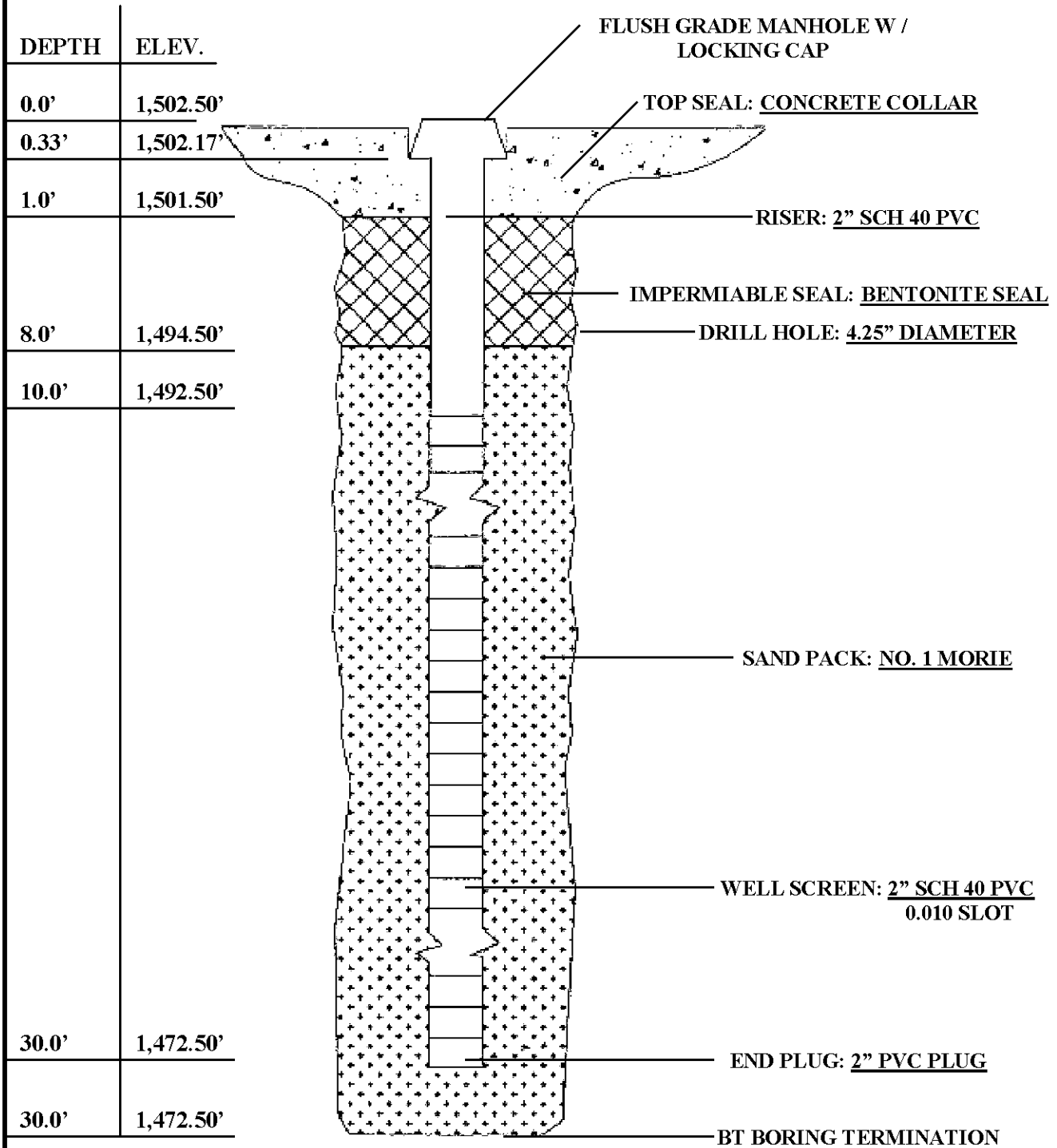
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 16S**

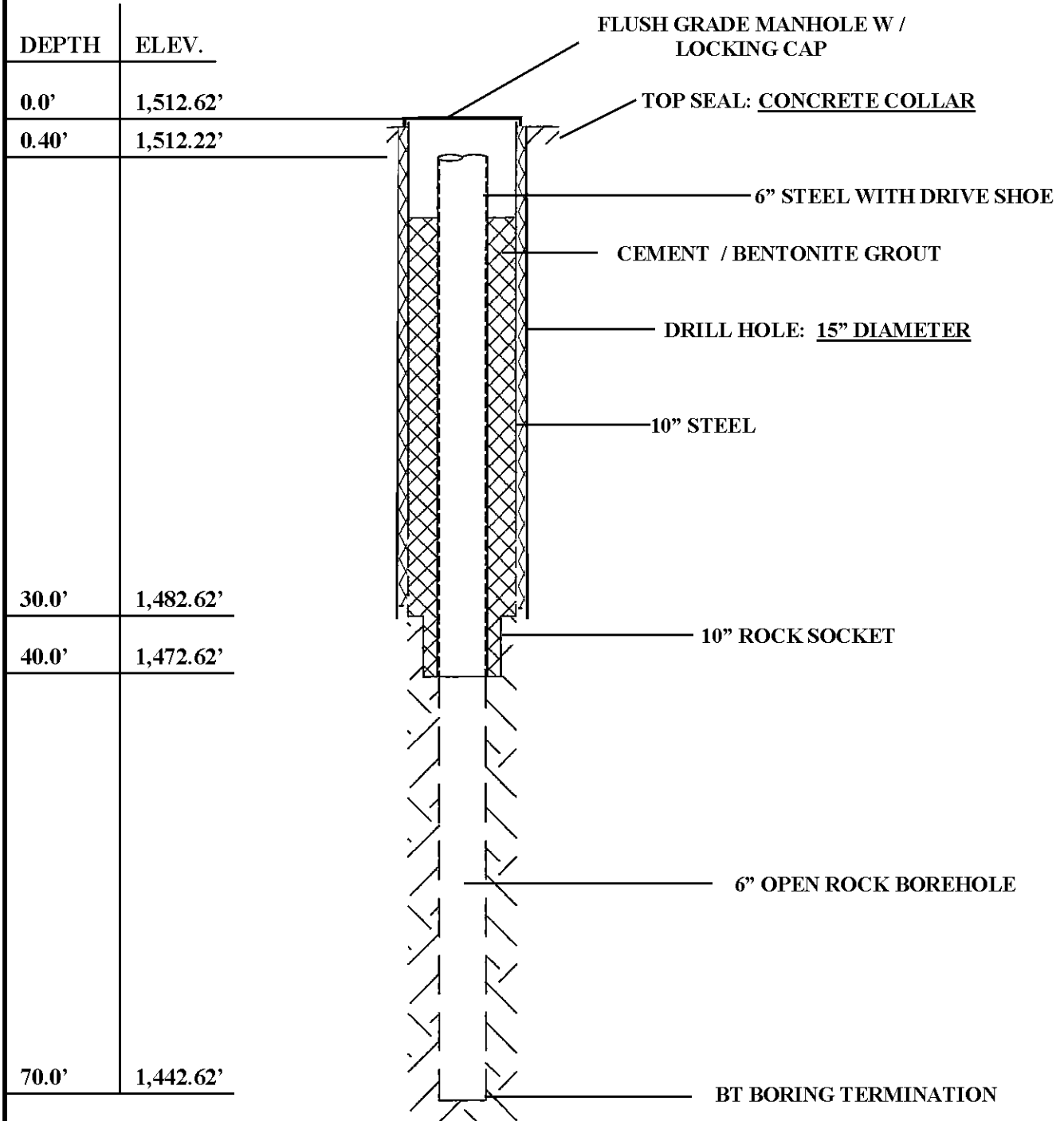
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

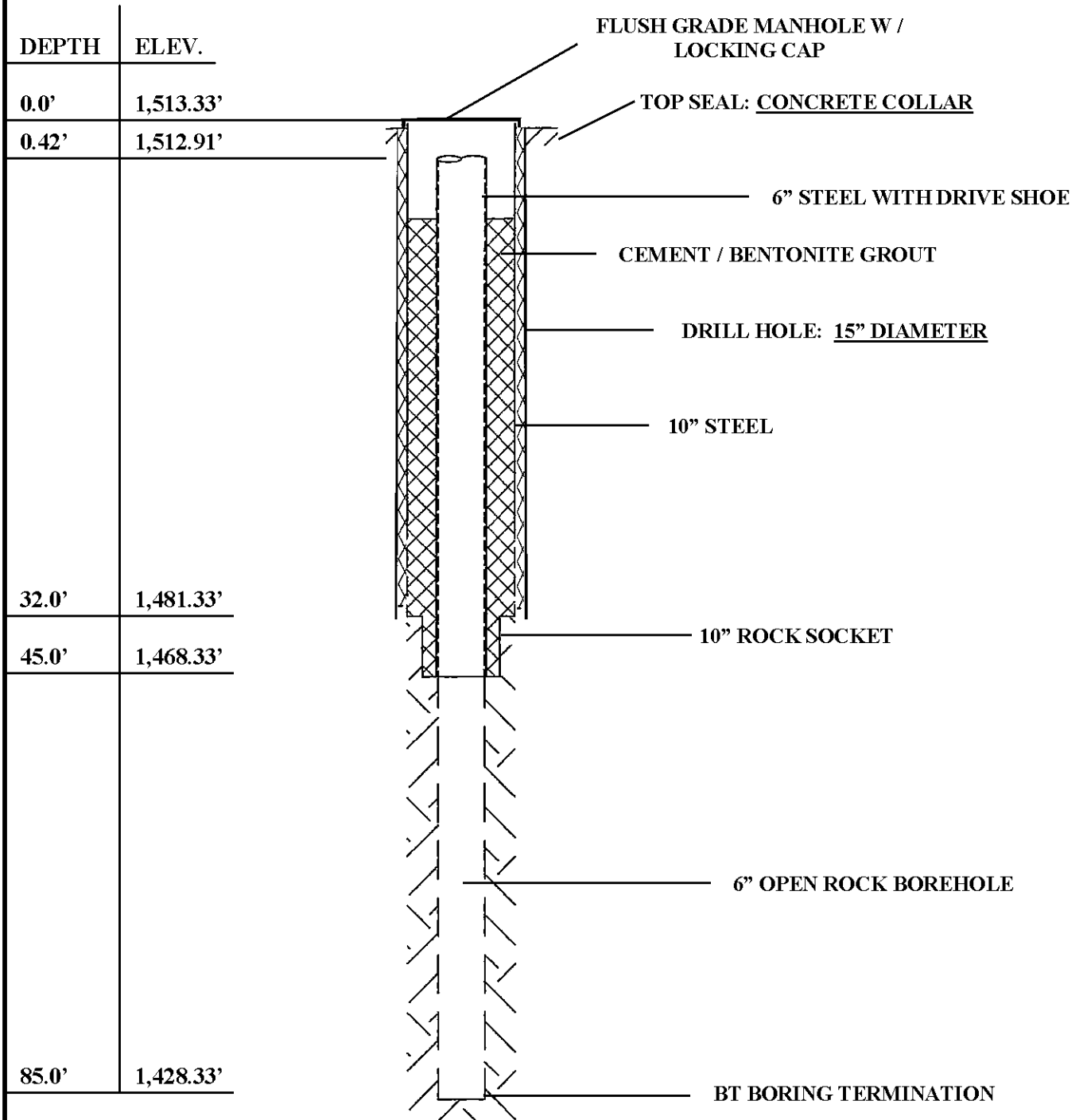
**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 17S**

MONITORING WELL CONSTRUCTION DETAIL



**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 1D**

MONITORING WELL CONSTRUCTION DETAIL

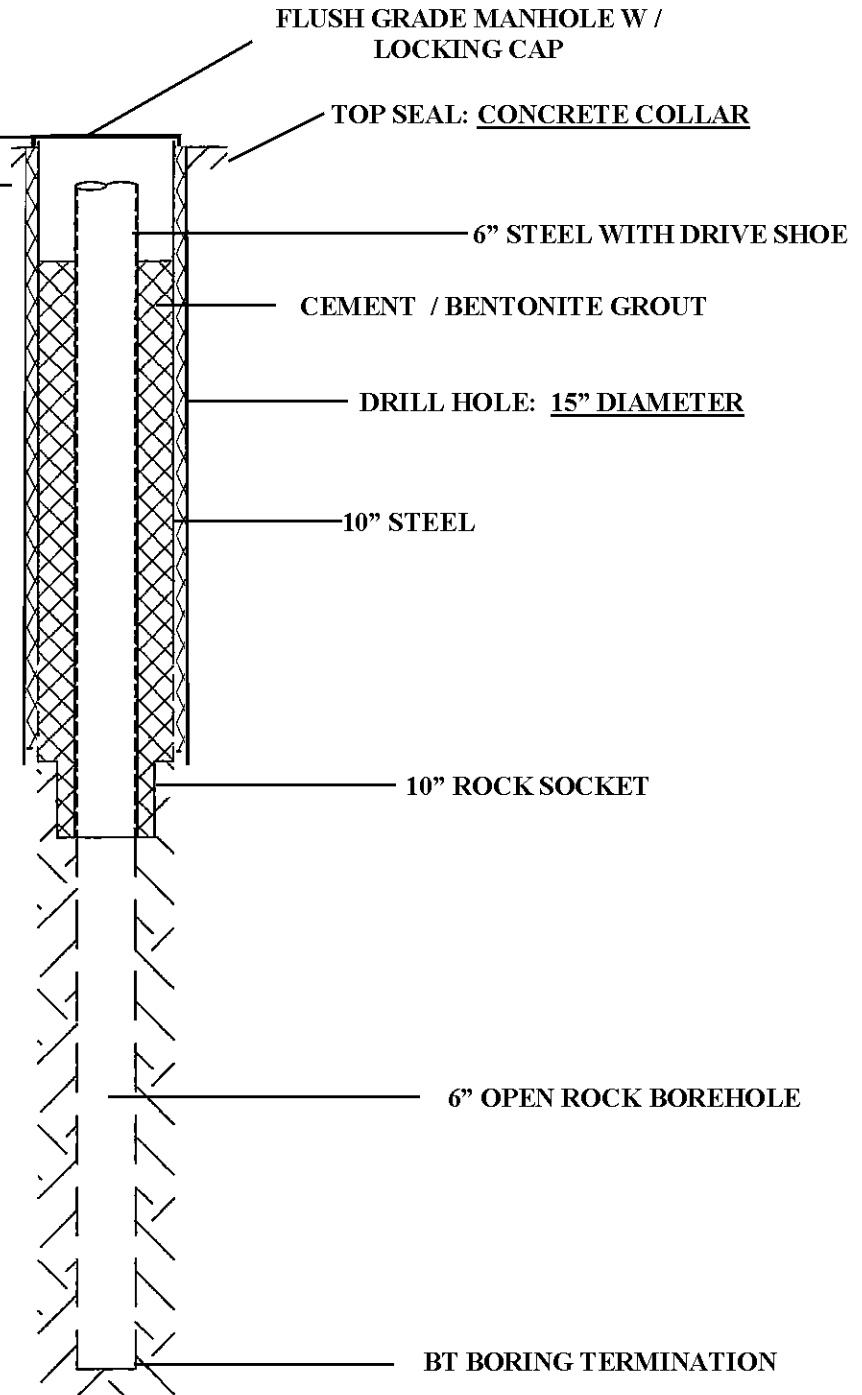


NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 2D**

MONITORING WELL CONSTRUCTION DETAIL

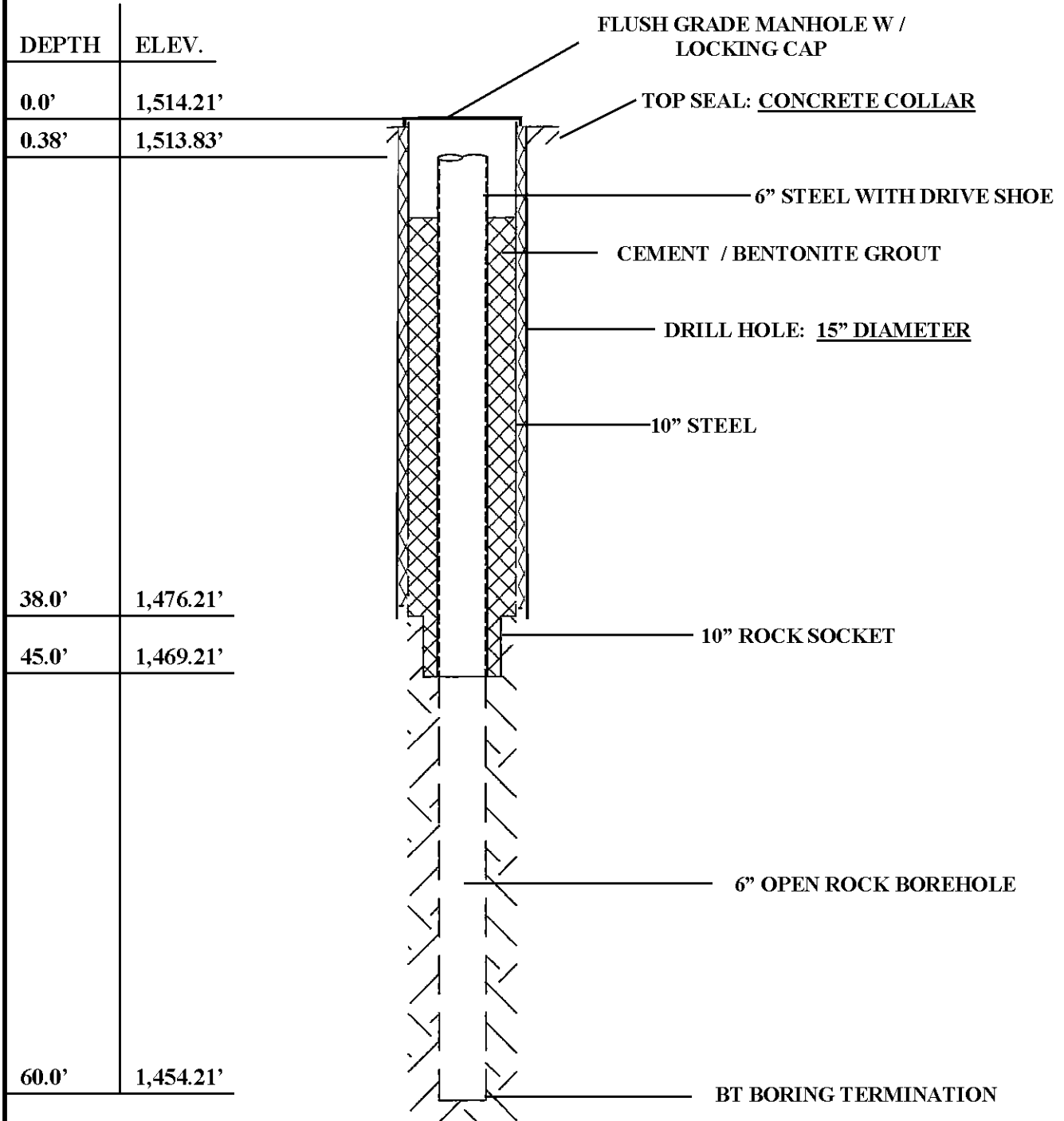
DEPTH	ELEV.
0.0'	1,515.78'
0.55'	1,515.23'
34.5'	1,481.28'
45.5'	1,470.28'
85.0'	1,430.78'



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 6D**

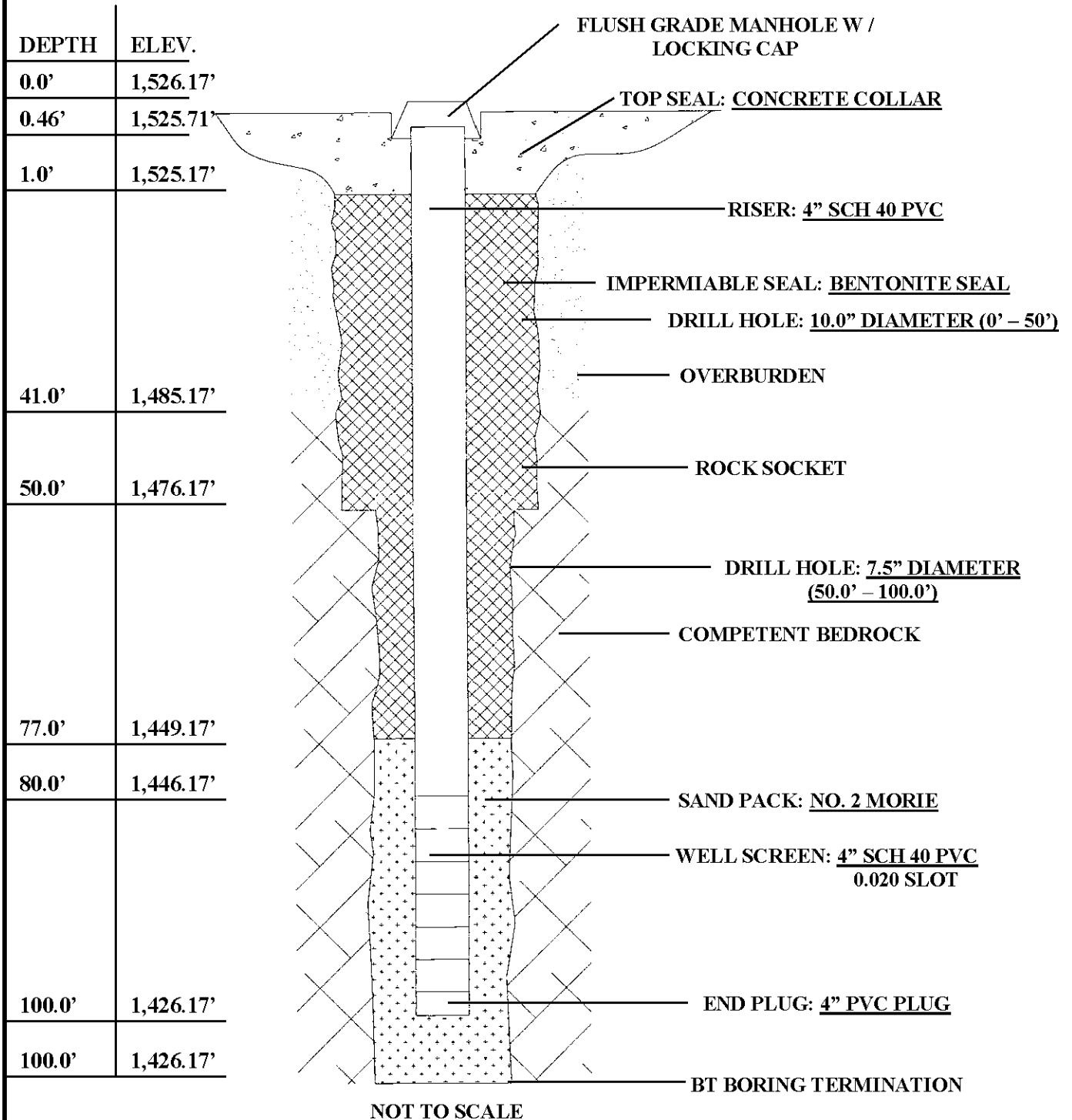
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

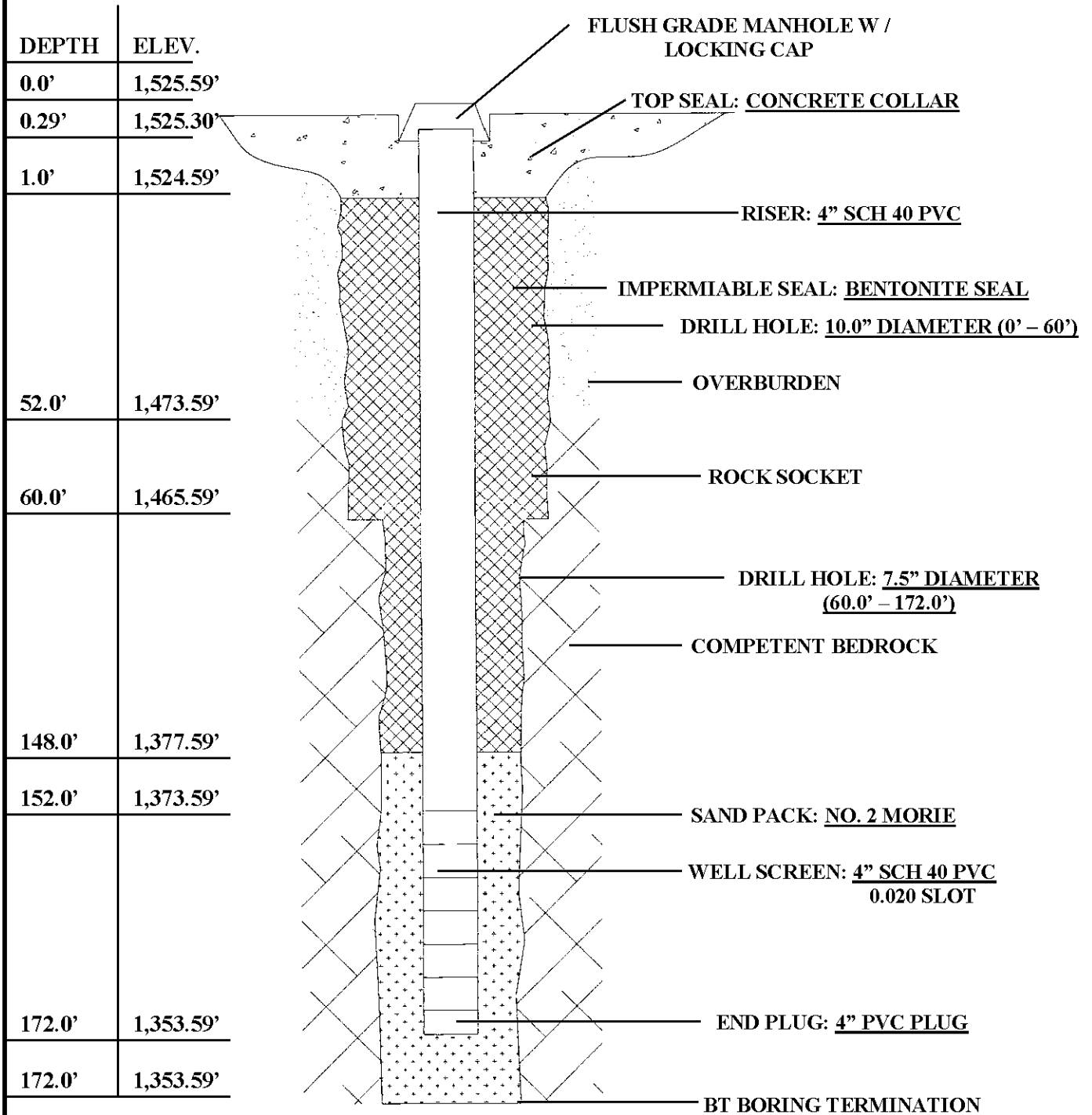
SITE CHARACTERIZATION ACTIVITIES
LEWIS BROTHERS GARAGE PROPERTY
MONITORING WELL 7D

MONITORING WELL CONSTRUCTION DETAIL



**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 8D**

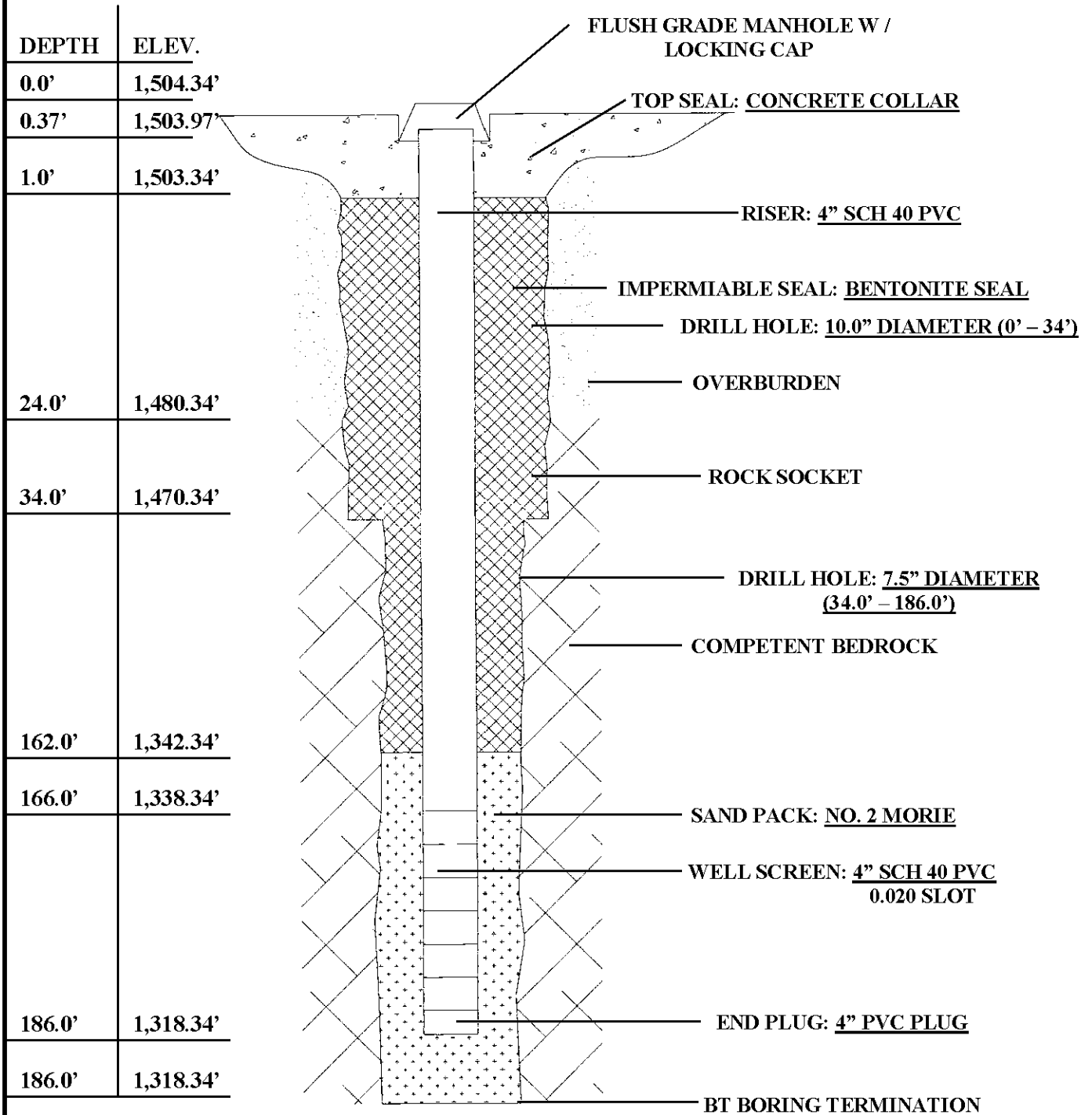
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 9D**

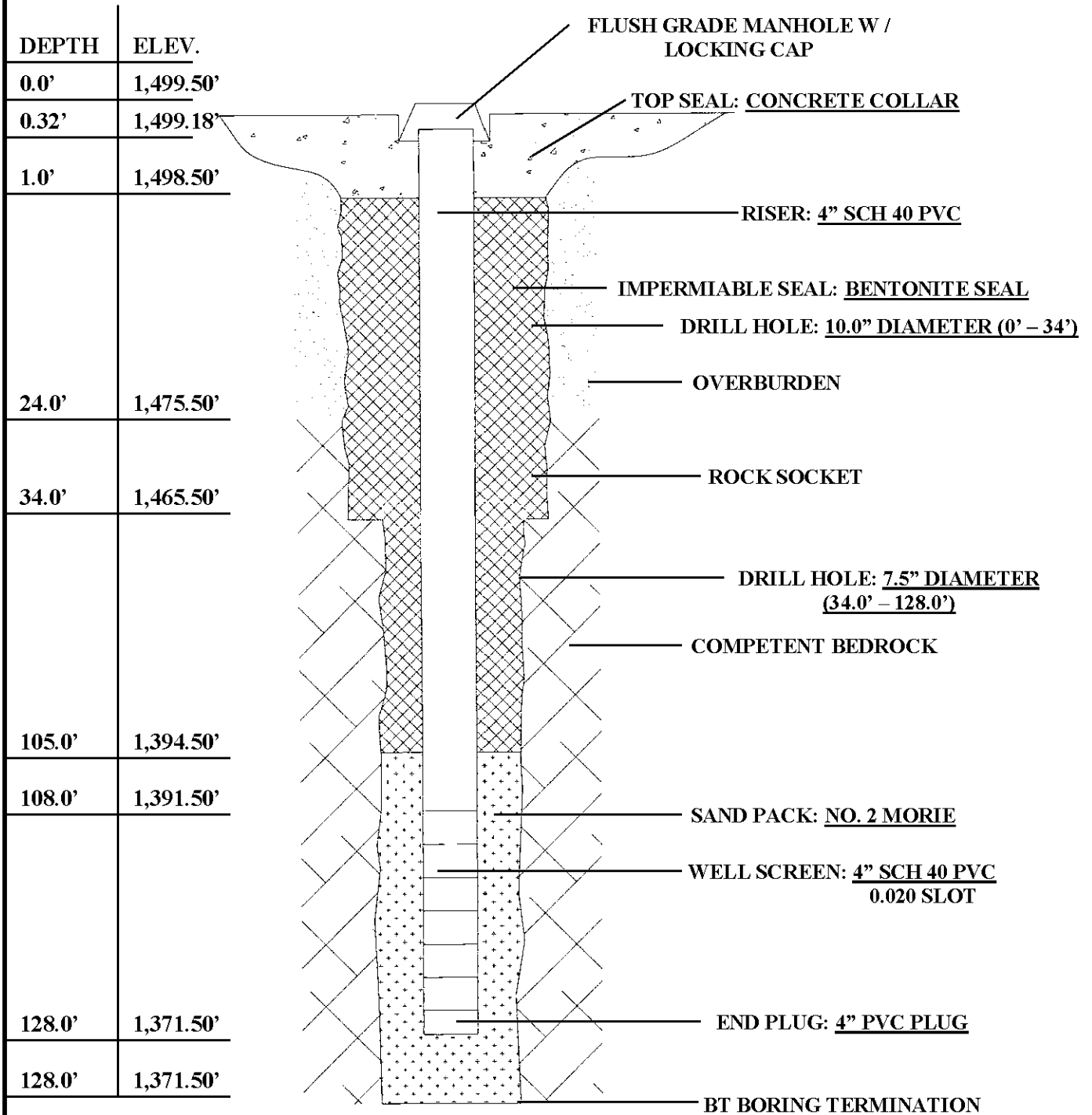
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 10D**

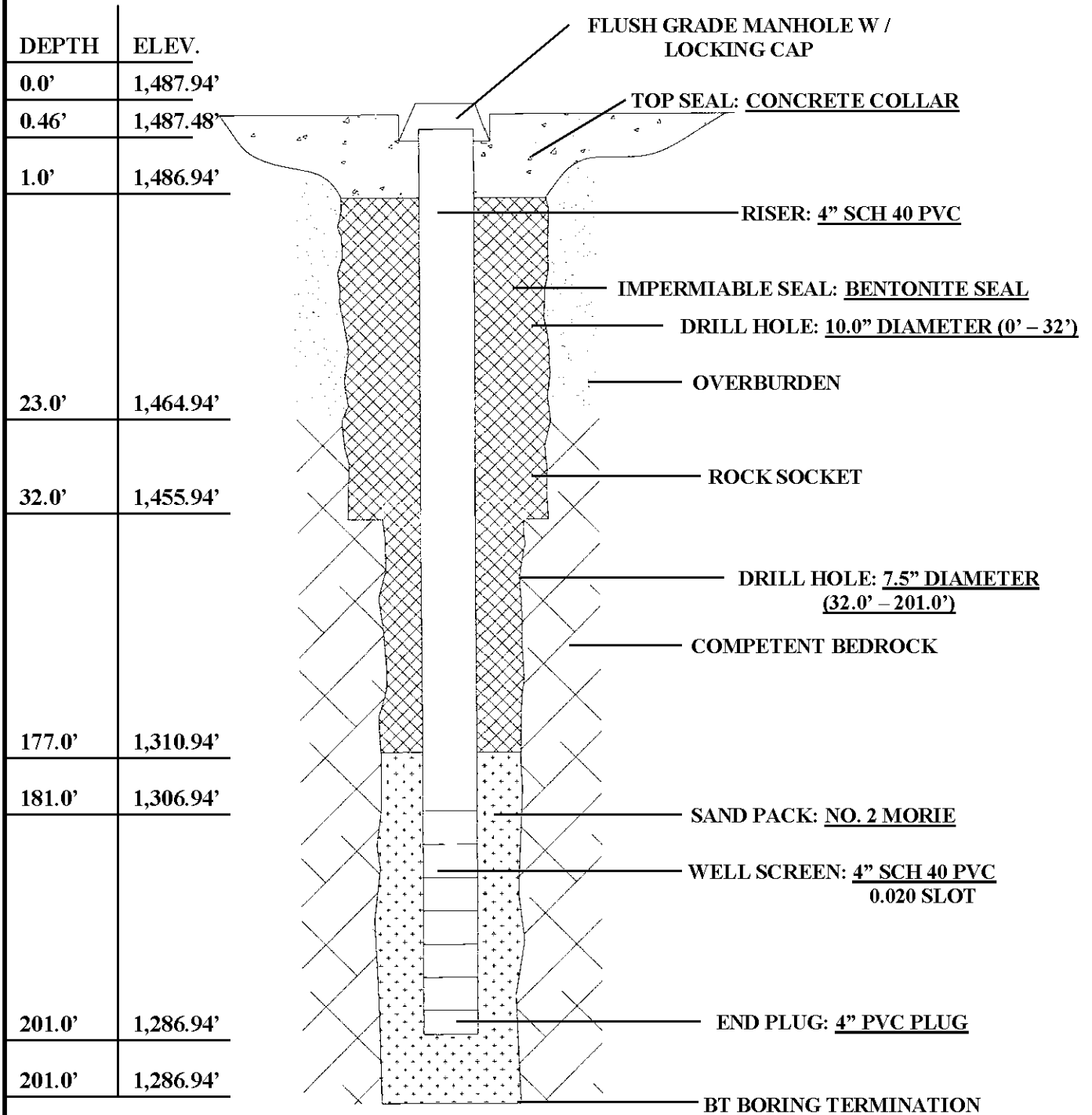
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 11D**

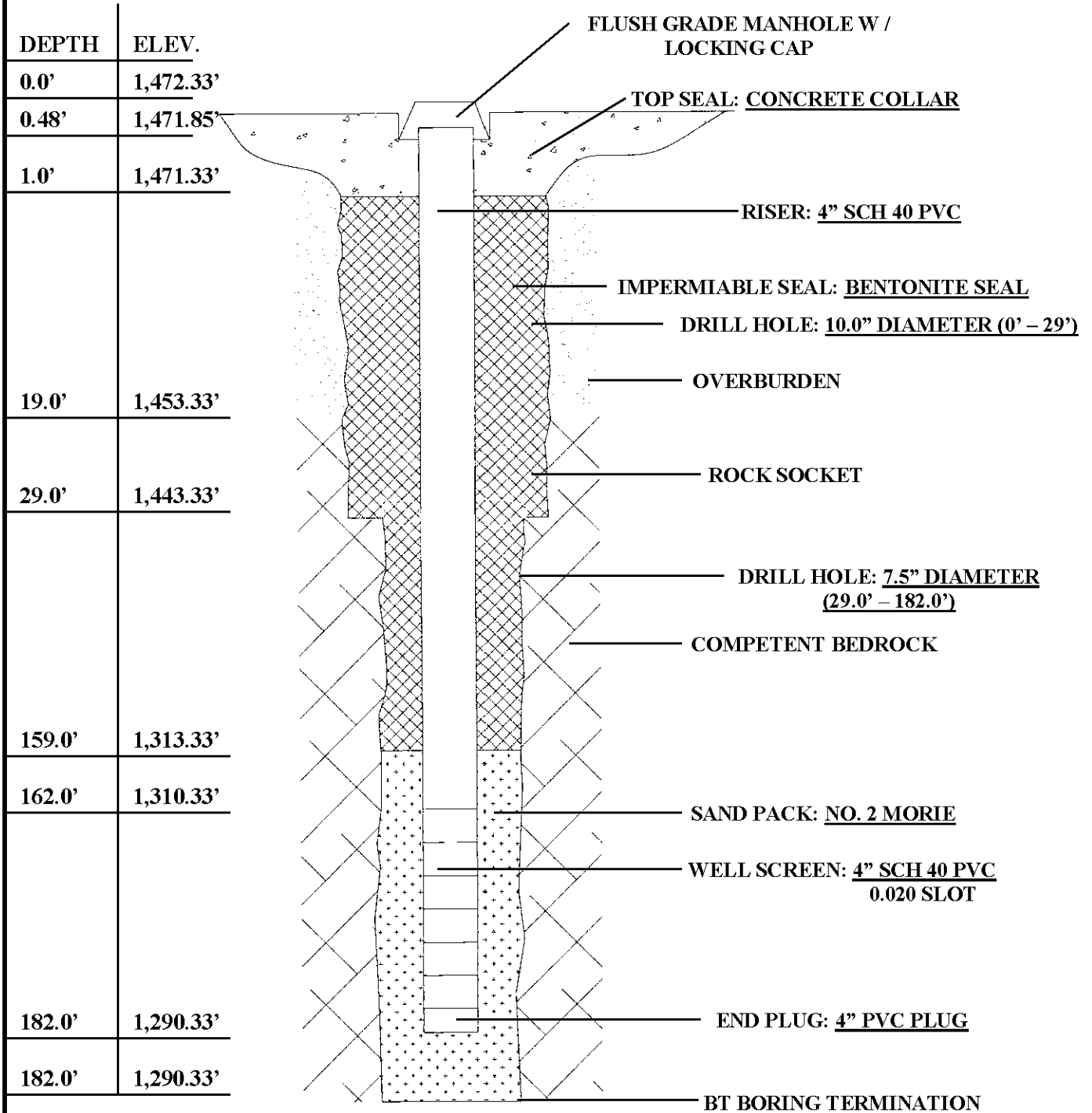
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 12D**

MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

**SITE CHARACTERIZATION ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 MONITORING WELL 13D**

APPENDIX O

Monitoring Well Development / Well Purging Records

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL PURGING RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Ms. Ruth Lewis

Date: March 22, 2008

GENERAL WELL INFORMATION

Well No.	S.W.L. (TOC)	Total Depth (TOC)	Amount Purged (Gallon)
MW-1s	10.08'	21.95'	25.0 gallons
MW-2s	12.68'	29.60'	50.0 gallons
MW-3s	--	--	8.4 gallons
MW-4s	6.37	24.90'	32.0 gallons
MW-5s	7.60	21.31'	34.0 gallons

PRODUCT THICKNESS

Well No.	Depth to Water	Depth to Product	Product Thickness
MW-1s	10.08'	NA	0.00'
MW-2s	12.68'	NA	0.00'
MW-3s	20.10'	8.57'	11.53'
MW-4s	6.37	NA	0.00'
MW-5s	7.60	NA	0.00'

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Ms. Ruth Lewis

Date: March 22, 2008

Well No.	Time	pH	Temp °C	Conductivity mS/cm	Gallon	Comment
MW-1s	0915	--	--	--	0.0	Start
	0916	7.64	8.78	1.12	2.0	Silty
	0917	7.17	9.44	0.983	5.0	Silty
	0918	6.69	9.73	0.962	7.0	Silty
	0921	5.68	9.49	1.031	9.0	Silty
	0922	6.47	9.52	0.996	10.0	Silty
	0924	6.41	9.75	0.979	12.0	Silty
	0941	6.44	9.61	0.926	15.0	Silty
	0944	6.50	9.67	0.952	17.0	Silty
	0958	6.53	9.88	0.899	20.0	Cloudy
	1009	6.56	9.30	0.904	22.0	Cloudy
	1013	6.56	9.51	0.912	24.0	Cloudy
	1015	6.57	9.60	0.908	25.0	Cloudy
					--	--
MW-2s	1252	--	--	--	0	Start
	1254	6.98	10.95	1.285	1.0	Cloudy
	1256	7.01	11.08	1.211	6.0	Cloudy
	1258	7.03	11.43	1.111	10.0	Cloudy
	1259	7.05	11.51	1.099	15.0	Cloudy
	1301	7.07	11.72	1.076	20.0	Cloudy
	1303	7.10	11.89	1.032	25.0	Cloudy
	1305	7.08	11.99	1.001	30.0	Cloudy
	1307	7.08	12.10	0.981	35.0	Cloudy
	1309	7.09	12.10	0.943	40.0	Cloudy
	1312	7.04	12.20	0.923	45.0	Cloudy
	1315	7.04	12.25	0.919	50.0	Cloudy

MW-1s: No odorous or visual indications of contamination were observed during the development of MW-1.

MW-2s: A minor amount of free product was observed during the development of MW-2s. Strong odorous and visual indications of contamination were also observed.

MW-3s: Due to the presence of free product, MW-3s was not developed. A total of 8.4 gallons of product and water was removed from the well via a hand bailer.

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Ms. Ruth Lewis

Date: March 22, 2008

Well No.	Time	pH	Temp °C	Conductivity mS/cm	Gallon	Comment
MW-4s	1055	--	--	--	0	Start
	1101	--	--	--	5.0	V. Silty
	1124	--	--	--	10.0	V. Silty
	1148	7.37	8.89	1.045	12.0	V. Silty
	1151	7.24	9.89	1.006	15.0	V. Silty
	1155	7.12	9.43	1.056	17.0	V. Silty
	1159	7.12	9.43	1.065	19.0	V. Silty
	1201	7.07	9.60	1.060	20.0	Silty
	1209	7.03	9.28	1.055	23.0	Cloudy
	1211	7.00	9.17	1.051	25.0	Cloudy
	1223	7.00	9.32	1.038	28.0	Cloudy
	1235	6.97	9.19	1.024	32.0	Cloudy
MW-5s	0928	--			0	Start
	0936	--			5.0	V. Silty
	0954	--			10.0	V. Silty
	1008	--			15.0	V. Silty
	1040	7.84	9.08	0.326	16.0	V. Silty
	1043	7.67	9.49	0.409	18.0	V. Silty
	1044	7.50	10.00	0.487	22.0	V. Silty
	1048	7.12	9.67	0.560	24.0	V. Silty
	1050	7.12	9.64	0.578	25.0	V. Silty
	1106	6.93	9.43	0.582	27.0	Silty
	1111	6.93	9.78	0.539	29.0	Silty
	1114	6.91	9.89	0.505	30.0	Silty
	1125	6.83	9.61	0.560	32.0	Cloudy
	1128	6.83	9.78	0.553	34.0	Cloudy

MW-4s: Strong odorous and visual indications of contamination were observed during the development of MW-4s. Good recharge.

MW-5s: Odorous indications of contamination were observed during the development of MW-5s. Good recharge.

Field Notes

TO: File
FROM: Kevin Cucura
DATE: April 5, 2008
PROJECT: Lewis Brother's / Site Characterization
PROJECT NUMBER: 27058
SUBJECT: Groundwater Sampling Activities

0710: Arrived onsite and initiated site activities with the collection of static water levels from the five (5) groundwater monitoring wells located onsite. The well volumes were calculated for each well. The purpose of the field activities was to sample the five (5) groundwater monitoring wells. The general well information is as follows:

Table 1
General Well Information

Well #	SWL	Depth	1 Volume	3 Volumes	Purged
MW-1s	10.32'	21.95'	2.0 gallons	6.0 gallons	10.0 gallons
MW-2s	NA	29.60'	--	--	--
MW-3s	NA	28.00'	--	--	--
MW-4s	9.36'	24.90'	2.6 gallons	7.8 gallons	10.0 gallons
MW-5s	8.29'	21.31'	2.2 gallons	6.6 gallons	10.0 gallons

Note: 15.40' of free product was observed in MW-2. 8.34' of free product was observed in MW-3. No free product was observed in the remaining monitoring wells.

MW-1s: MW-1s was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during the purging activities.

Table 2
Well Purging Data –MW-1s

Time	Temp. (°C)	pH (SU)	Conductivity (uS/cm)	Amount (Gallons)	Comment
0741	9.7	5.83	1089	0.25	Very Silty
0744	9.6	5.88	1162	1.0	Very Silty
0748	8.9	5.86	1115	2.0	Very Silty
0749	8.6	5.88	1169	3.0	Very Silty
0751	8.8	5.89	1180	4.0	Very Silty
0752	8.8	5.92	1166	5.0	Very Silty
0754	8.8	6.00	1145	6.0	Very Silty
0755	8.9	6.03	1126	7.0	Very Silty
0756	8.9	6.07	1157	8.0	Very Silty
0758	9.0	6.12	1119	9.0	Very Silty
0759	9.0	6.17	1113	10.0	Very Silty

MW-2s: 15.40' of free product was observed in MW-2s. 7.5 gallons of product was removed from the well utilizing a hand bailer. No sample was collected for laboratory analysis.

MW-3s: 8.34' of free product was observed in MW-3s. 6.5 gallons of product was removed from the well utilizing a hand bailer. No sample was collected for laboratory analysis.

MW-4s: MW-4s was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well. Odorous and visual indications of contamination were observed during the purging activities.

Table 3
Well Purging Data –MW-4s

Time	Temp. (°C)	pH (SU)	Conductivity (uS/cm)	Amount (Gallons)	Comment
0902	8.5	6.35	1106	0.25	Silty
0903	8.1	6.53	1100	1.0	Silty
0904	8.2	6.54	1024	2.0	Very Silty
0905	8.3	6.55	1053	3.0	Very Silty
0907	8.7	6.57	1139	5.0	Very Silty
0908	8.7	6.65	1096	6.0	Very Silty
0910	8.8	6.67	1131	7.0	Very Silty
0911	8.9	6.69	1125	8.0	Very Silty
0912	8.9	6.71	1130	9.0	Very Silty
0913	9.1	6.72	1145	10.0	Very Silty

MW-5s: MW-5s was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during the purging activities.

Table 4
Well Purging Data –MW-5s

Time	Temp. (°C)	pH (SU)	Conductivity (uS/cm)	Amount (Gallons)	Comment
0824	8.5	6.58	656	0.25	Silty
0825	8.2	6.67	686	1.0	Very Silty
0827	8.1	6.64	702	2.0	Very Silty
0828	8.1	6.61	714	3.0	Very Silty
0829	7.9	6.61	736	4.0	Very Silty
0830	8.7	6.62	590	5.0	Very Silty
0833	8.7	6.63	618	7.0	Very Silty
0835	8.8	6.63	600	8.0	Very Silty
0836	8.9	6.63	598	9.0	Very Silty
0837	8.8	6.65	639	10.0	Very Silty

Table 5
Final Sample Data Summary

Well #	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	D.O. (mg/L)	Sample Depth (Feet)
MW-1s	9.0	6.39	-23.2	960	--	2.12	15.49'
MW-2s	--	--	--	--	--	--	--
MW-3s	--	--	--	--	--	--	--
MW-4s	8.9	6.84	-31.6	1155	--	3.50	11.63'
MW-5s	8.9	6.72	17.3	457	--	2.18	11.17'

Table 6
Sample Log

Sample ID	Description	Date	Time
058-0405-MW1s	MW-1s	04.05.08	0805
058-0405-MW4s	MW-4s	04.05.08	0940
058-0405-MW5s	MW-5s	04.05.08	0845
058-0405-FB1	QA/QC Field Blank	04.05.08	0950

Offsite: 1100

SN/kc

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL PURGING RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Mrs. Ruth Lewis

Date: July 3, 2008

WELL GENERAL

Well No.	S.W.L. (TOC)*	Total Depth (TOC)	1 Volume (Gallon)	3 Volumes (Gallon)	Amount Purged (Gallon)
MW-1d	44.69	68.60	38.5	115.5	71.0
MW-2d	15.17	78.70	105.0	315.0	255.0
MW-6s	9.63	15.20	1.0	3.0	22.0
MW-6d	56.57	85.20	47.2	141.6	79.0

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Mrs. Ruth Lewis

Date: July 3 and 7,
2008

Well No.	Time	pH	Temp °C	Conductivity uS/cm	Gallons Purged	Comments
MW-6s	1252	7.28	14.8	1521	0.25	Cloudy
	1313	6.62	15.0	1603	1.00	Very Silty
	1319	6.50	13.9	1580	2.00	Very Silty
	1325	6.46	13.7	0801	3.00	Very Silty
	1409	6.81	14.1	2388	4.00	Very Silty
	1418	6.46	13.3	2305	5.00	Very Silty
7/7/08	1028	6.75	14.5	1783	5.25	Very Silty
	1030	6.53	13.9	1804	6.00	Very Silty
	1032	6.35	13.5	1872	7.00	Very Silty
	1056	6.42	16.5	1461	8.00	Very Silty
	1106	6.29	15.7	1868	9.00	Very Silty
	1142	6.45	15.3	1995	10.00	Very Silty
	1353	6.50	13.3	2471	18.00	Silty
	1409	6.55	13.4	2479	20.00	Silty
	1435	6.60	13.7	2519	21.00	Silty
	1449	6.55	13.3	2472	22.00	Silty
MW-1d	1200	--	--	--	--	Pump On
	1207	7.76	13.1	316	10.0	Cloudy
	1216	7.89	13.3	312	20.0	Cloudy
	1224	7.99	13.6	309	30.0	Cloudy
	1232	--	--	--	40.0	Well Evacuated
7/7/08	0745	--	--	--	--	Pump On
	0751	8.10	12.7	308	45.0	Very Cloudy
	0755	7.96	12.8	307	50.0	Very Cloudy
	0804	7.98	13.4	309	60.0	Very Cloudy
	0814	--	--	--	70.0	Well Evacuated
	1153	--	--	--	71.0	Well Evacuated

No odor or visual observed in MW-6s or MW-1d.

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL PURGING RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Mrs. Ruth Lewis

Date: July 3 and 7,
2008

Well No.	Time	pH	Temp °C	Conductivity uS/cm	Gallons Purged	Comments
MW-2d	0942	--	--	--	--	Pump On
	0949	7.30	14.4	888	5.0	Silty
	0953	7.19	14.7	898	10.0	Silty
	1004	7.15	15.3	902	20.0	Very Cloudy
	1014	7.06	15.4	895	30.0	Very Cloudy
	1025	7.03	16.2	893	40.0	Very Cloudy
	1035	6.98	14.9	876	50.0	Very Cloudy
	1041	6.96	14.9	848	60.0	Very Cloudy
	1046	7.01	14.3	828	70.0	Very Cloudy
	1052	6.97	15.9	818	80.0	Very Cloudy
	1100	7.03	15.5	804	90.0	Very Cloudy
	1109	7.04	15.3	782	100.0	Very Cloudy
	1118	7.04	15.4	781	110.0	Cloudy
	1124	--	--	--	117.0	Well Evacuated
7/7/08	0824	--	--	--	--	Pump On
	0830	7.54	14.6	874	122.0	Silty
	0840	7.26	15.6	879	127.0	Cloudy
	0850	7.22	15.3	888	137.0	Cloudy
	0857	7.14	15.1	891	147.0	Cloudy
	0908	7.06	15.6	896	157.0	Cloudy
	0921	7.01	15.5	901	167.0	Cloudy
	0930	6.98	15.2	902	177.0	Cloudy
	0938	6.95	14.6	903	187.0	Cloudy
	0945	6.91	14.4	898	197.0	Cloudy
	0951	6.90	14.5	891	207.0	Cloudy
	1000	6.90	15.3	881	217.0	Cloudy
	1009	6.98	15.3	875	227.0	Cloudy
	1012	--	--	--	230.0	Well Evacuated
	1310	--	--	--	--	Pump On
	1320	7.43	15.3	837	242.0	Very Cloudy
	1329	7.43	14.9	844	252.0	Very Cloudy
	1331	--	--	--	255.0	Well Evacuated

Distinct odor observed throughout pumping. No visual. Poor recharge.

Field Notes

TO: File
FROM: Kevin Cucura
DATE: July 10, 2008
PROJECT: Lewis Brothers Garage Property
PROJECT NUMBER: 27058
SUBJECT: Groundwater Sampling Activities

0630: Arrived onsite and initiated site activities with the collection of static water levels from the ten (10) groundwater monitoring wells and four (4) observations wells located on the subject property. The purpose of the field activities was to sample the ten (10) groundwater monitoring wells and four (4) observations wells. The general well information is as follows:

Table 1
General Well Information

Well #	S.W.L	T.D.	Pump Depth	Pump Rate L/min	Amount Purged
MW-1s	12.77'	21.95'	20.0'	0.15	1.5 gallons
MW-4s	11.23'	24.90'	14.0'	0.15	1.5 gallons
MW-5s	11.70'	21.31'	16.5'	0.15	1.5 gallons
MW-6s	15.00'	15.20'	15.0'	0.15	1.5 gallons
MW-1d	54.61'	68.60'	60.0	0.10	1.5 gallons
MW-2d	17.53'	78.70'	66.0	0.15	1.5 gallons
MW-6d	62.17'	85.20'	67.0	0.15	1.5 gallons

Table 2
General Well Information (cont.)

Well #	S.W.L	T.D.	1 Volume	3 Volumes	Amount Purged
OW-1	3.85'	11.58'	5.02 gallons	15.07 gallons	17.5 gallons
OW-2	3.15'	10.98'	5.09 gallons	15.27 gallons	20.0 gallons
OW-3	2.96'	90.92'	5.17 gallons	15.52 gallons	20.0 gallons
OW-4	2.29'	9.95'	4.98 gallons	14.94 gallons	20.0 gallons

Table 3
Product Thickness

Well #	TD	Depth to Water	Depth to Product	Product Thickness
MW-2s	29.60'	15.52'	14.80'	0.72'
MW-3s	28.00'	13.04'	12.98'	0.06'

Note: No free product was observed in the remaining monitoring wells.

MW-1s: MW-1s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 20.0'. The well was purged and sampled at 150 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.5 gallons was extracted from the well.

Table 4
Well Purging Data – MW-1s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
0812	14.75	5.81	135	0.120	924	0.80
0815	15.20	5.94	127	0.119	--	0.75
0818	15.35	5.98	123	0.119	--	0.64

MW-2s: Free product was observed in MW-2s. Free product was removed via hand bailing methods and a grab sample was collected for laboratory analysis.

MW-3s: Free product was observed in MW-3s. Free product was removed via hand bailing methods and a grab sample was collected for laboratory analysis.

MW-4s: MW-4s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 14.0'. The well was purged and sampled at 150 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.5 gallons was extracted from the well.

Table 5
Well Purging Data – MW-4s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
1050	14.31	6.24	-32	0.100	216	0.00
1053	14.63	6.29	-44	0.101	157	0.00
1056	15.12	6.46	-63	0.101	116	0.00

MW-5s: MW-5s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 16.5'. The well was purged and sampled at 150 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.5 gallons was extracted from the well.

Table 6
Well Purging Data – MW-5s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
0844	13.68	5.96	238	49.0	0.0	2.36
0847	13.70	5.94	235	49.7	0.0	2.08
0850	13.81	5.94	228	50.2	0.0	1.81

MW-6s: MW-6s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.0'. The well was purged and sampled at 150 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.5 gallons was extracted from the well.

Table 7
Well Purging Data – MW-6s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
0943	16.89	6.12	216	0.222	0.0	0.30
0946	17.11	6.12	198	0.240	830	0.27
0949	16.17	6.09	198	0.241	492	0.24

MW-1d: MW-1d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 60.0'. The well was purged and sampled at 150 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.5 gallons was extracted from the well.

Table 8
Well Purging Data – MW-1d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
0911	14.94	7.26	307	34.6	77.4	9.89
0914	15.30	7.37	308	34.5	86.5	9.97
0917	15.45	7.39	309	34.5	89.6	9.99

MW-2d: MW-2d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 66.0'. The well was purged and sampled at 150 ml / min. A total of 1.5 gallons was extracted from the well.

Table 9
Well Purging Data – MW-2d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
1131	14.89	6.39	-10	0.092	96.6	0.47
1134	15.06	6.47	-18	0.092	92.2	0.45
1137	15.14	6.48	-2	0.092	92.1	0.43

MW-6d: MW-6d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 67.0'. The well was purged and sampled at 150 ml / min. The well maintained a steady recharge throughout purging activities. A total of 1.5 gallons was extracted from the well.

Table 10
Well Purging Data – MW-6d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
1016	16.07	6.70	282	39.7	31.0	2.00
1019	16.63	6.89	268	39.1	26.7	2.01
1022	16.58	6.99	260	39.1	25.2	2.03

OW-1: OW-1 was purged and sampled utilizing hand bailing techniques. A total of 17.5 gallons was purged from OW-1. No odorous or visual indications of contamination were observed during the purging activities.

Table 11
Well Purging Data – OW-1

Time	pH (SU)	Temp (°C)	Conductivity (mS/cm)	Gallons Purged	Comments
1304	6.38	16.8	0.425	1.0	Clear
1306	6.49	15.5	0.436	5.0	Clear
1307	6.49	15.5	0.422	7.5	Clear
1308	6.51	15.4	0.421	10.0	Clear
1309	6.50	15.4	0.409	15.0	Clear
1310	6.55	15.3	0.422	17.5	Clear

OW-2: OW-2 was purged and sampled utilizing hand bailing techniques. A total of 20.0 gallons was purged from OW-2. No odorous or visual indications of contamination were observed during the purging activities.

Table 12
Well Purging Data – OW-2

Time	pH (SU)	Temp (°C)	Conductivity (mS/cm)	Gallons Purged	Comments
1330	7.25	18.2	0.533	1.0	Clear
1331	7.11	18.2	0.525	5.0	Cloudy
1332	7.11	17.5	0.537	10.0	Cloudy
1334	7.03	17.5	0.536	12.5	Cloudy
1335	7.07	17.3	0.537	15.0	Cloudy
1336	7.03	17.3	0.537	17.5	Cloudy
1337	7.03	17.4	0.536	20.0	Cloudy

OW-3: OW-3 was purged and sampled utilizing hand bailing techniques. A total of 20.0 gallons was purged from OW-3. No odorous or visual indications of contamination were observed during the purging activities.

Table 13
Well Purging Data – OW-3

Time	pH (SU)	Temp (°C)	Conductivity (mS/cm)	Gallons Purged	Comments
1356	7.34	17.0	0.380	1.0	Clear
1358	7.36	15.4	0.414	1.5	Clear
1359	7.34	15.2	0.409	10.0	Clear
1400	7.37	15.1	0.408	12.5	Clear
1401	7.34	15.0	0.407	15.0	Clear
1402	7.35	15.0	0.407	17.0	Clear
1403	7.36	15.0	0.407	20.0	Clear

OW-4: OW-4 was purged and sampled utilizing hand bailing techniques. A total of 20.0 gallons was purged from OW-4. No odorous or visual indications of contamination were observed during the purging activities.

Table 14
Well Purging Data – OW-4

Time	pH (SU)	Temp (°C)	Conductivity (mS/cm)	Gallons Purged	Comments
1419	7.68	17.4	0.449	1.0	Cloudy
1420	7.58	17.2	0.472	5.0	Cloudy
1421	7.50	16.9	0.479	7.5	Cloudy
1422	7.51	16.3	0.487	10.0	Cloudy
1423	7.49	15.9	0.498	15.0	Cloudy
1424	7.43	16.0	0.499	17.5	Cloudy
1425	7.43	16.0	0.494	20.0	Cloudy

Table 15
Final Sample Data Summary

Well #	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Sample Depth
MW-1s	15.35	5.98	135	0.120	--	0.64	NA
MW-2s	--	--	--	--	--	--	--
MW-3s	--	--	--	--	--	--	--
MW-4s	15.12	6.46	-63.0	0.101	116.0	0.00	NA
MW-5s	13.81	5.94	228	0.050	--	1.81	NA
MW-6s	16.17	6.09	198	0.241	492	0.24	NA
MW-1d	15.45	7.39	309	0.035	89.6	9.99	NA
MW-2d	15.14	6.48	-2.0	0.092	92.1	0.43	NA
MW-6d	16.58	6.99	260	0.039	25.2	2.03	NA
OW-1	15.3	6.55	78.6	0.422	--	1.75	3.96'
OW-2	17.4	7.08	64.3	0.536	--	1.41	3.20'
OW-3	15.0	7.36	50.3	0.406	--	1.15	3.00'
OW-4	16.0	7.43	42.6	0.495	--	1.39	2.35'

Table 16
Metals Data

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)
MW-1s	3.4	0.38	20	0.0
MW-2s	1.9	0.16	10	0.0
MW-3s	1.8	0.08	20	>35.0
MW-4s	6.0	0.37	0	0.0
MW-5s	3.2	0.08	10	>35.0
MW-6s	19.7	0.17	57	0.0
MW-1d	0.9	0.05	5	0.0
MW-2d	3.9	2.19	8	0.0
MW-6d	0.0	0.01	6	0.4
OW-1	--	--	--	--
OW-2	--	--	--	--
OW-3	--	--	--	--
OW-4	--	--	--	--

Table 17
Sample Log

Sample ID	Date	Time
058-0710-MW1s	07/10/2008	0827
058-0710-MW2s	07/10/2008	1205
058-0710-MW3s	07/10/2008	1216
058-0710-MW4s	07/10/2008	1057
058-0710-MW5s	07/10/2008	0858
058-0710-MW6s	07/10/2008	0950
058-0710-MW1d	07/10/2008	0926
058-0710-MW2d	07/10/2008	1138
058-0710-MW6d	07/10/2008	1023
058-0710-OW1	07/10/2008	1313
058-0710-OW2	07/10/2008	1340
058-0710-OW3	07/10/2008	1405
058-0710-MW4	07/10/2008	1430
058-0710-FB1	07/10/2008	1115

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL PURGING RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Ms. Ruth Lewis

Date: October 8, 2008

GENERAL WELL INFORMATION

Well No.	S.W.L. (TOC)	Total Depth (TOC)	Amount Purged (Gallon)
MW-7d	19.59	60.40'	70.0 gallons

Well No.	Time	pH	Temp °C	Conductivity mS/cm	Gallon	Comment
MW-7d	1250	--	--	--	--	Start
	1256	7.04	15.6	1.166	10.0	Cloudy
	1312	6.99	16.7	1.153	20.0	S. Cloudy
	1329	6.98	15.8	1.135	40.0	S. Cloudy
	1344	6.95	16.1	1.115	50.0	S. Cloudy
	1351	--	--	--	70.0	Evacuated

MW-7d: Strong odorous indications of contamination were observed during the development of MW-7d. Poor recharge.

Field Notes

TO: File
 FROM: Kevin Cucura
 DATE: April 6, 2009
 PROJECT: Lewis Brother's / Site Characterization
 PROJECT NUMBER: 27058
 SUBJECT: Groundwater Sampling Activities

0700: Arrived onsite and initiated site activities with the collection of static water levels from the ten (10) groundwater monitoring wells and four (4) observation wells located at the subject property and surrounding properties. The purpose of the field activities was to sample the ten (10) groundwater monitoring wells and four (4) observation wells. The general well information is as follows:

**Table 1
General Well Information**

Well #	SWL	TD	Pump Depth	Pump Rate L/min	Amount Purged
MW-1s	11.87'	21.95'	16.9'	0.20	2.0
MW-4s	9.85'	24.90'	17.4'	0.25	2.5
MW-5s	10.00'	21.31'	15.7'	0.20	2.0
MW-6s	9.41'	15.20'	12.3'	0.15	1.0
MW-1d	42.90'	68.60'	60.0'	0.22	2.5
MW-2d	14.64'	78.70'	66.0'	0.15	2.0
MW-6d	54.87'	85.20'	67.0'	0.15	2.0
MW-7d	26.84'	60.40'	52.0'	0.20	2.5

**Table 2
General Well Information (cont.)**

Well #	SWL	TD	1 Volume	3 Volumes	Amount Purged
OW-1	4.39	11.58	5.0	15.0	15.0
OW-2	3.65	10.98	5.0	15.0	15.0
OW-3	3.48	10.92	5.0	15.0	15.0
OW-4	2.82	9.95	4.8	14.4	15.0

**Table 3
Product Thickness**

Well #	TD	Depth to Water	Depth to Product	Product Thickness
MW-2s	29.60'	13.40'	13.34'	0.06'
MW-3s	28.00'	11.97'	11.95'	0.02'

Note: No free product was observed in the remaining monitoring wells.

MW-1s: MW-1s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 16.9'. The well was purged and sampled at 200 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. A slight odor was observed during purging activities.

Table 4
Well Purging Data – MW-1s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water
0743	10.10	6.29	-95	0.969	499	11.16	12.02'
0746	10.69	6.28	-102	0.960	381	10.09	12.10'
0748	10.67	6.45	-151	0.002	218	15.67	12.42'
0751	10.56	6.44	-101	0.968	304	9.49	12.50'
0754	12.01	6.32	-109	0.952	208	8.16	12.58'
0757	12.09	6.34	-116	0.949	149	7.81	12.62'
0800	12.07	6.37	-121	0.943	133	7.55	12.65'
0803	12.17	6.37	-125	0.936	112	7.27	12.62'
0806	12.22	6.37	-127	0.930	85	7.04	12.62'
0809	12.24	6.38	-131	0.918	79.8	6.82	12.62'
0812	12.10	6.39	-135	0.911	69.6	6.69	12.62'
0815	11.77	6.39	-139	0.903	58.9	6.62	12.62'
0818	11.49	6.40	-140	0.903	42.5	6.53	12.62'

MW-2s: Free product was noted in MW-2s. This product was bailed off and a groundwater sample was collected for laboratory analysis.

MW-3s: Free product was noted in MW-3s. This product was bailed off and a groundwater sample was collected for laboratory analysis.

MW-4s: MW-4s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 17.4'. The well was purged and sampled at 250 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.5 gallons was extracted from the well. A strong odor was observed during purging activities

Table 5
Well Purging Data – MW-4s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water
1151	8.52	6.93	-212	1.09	210	2.68	10.05'
1154	8.55	7.04	-233	1.08	174	1.70	10.25'
1157	8.60	7.08	-243	1.06	153	1.39	10.31'
1200	9.01	7.08	-250	1.06	179	1.20	10.35'
1203	9.26	7.10	-257	1.06	173	1.10	10.39'
1206	9.51	7.10	-262	1.06	142	1.01	10.39'
1209	9.80	7.11	-267	1.07	122	0.94	10.42'
1212	10.04	7.11	-271	1.09	77.9	0.90	10.45'
1215	10.13	7.11	-275	1.08	69.7	0.86	10.45'
1218	10.37	7.12	-279	1.08	52.5	0.83	10.45'
1221	10.50	7.12	-282	1.07	49.5	0.81	10.46'
1224	10.50	7.12	-284	1.07	36.9	0.81	10.46'
1227	10.61	7.12	-286	1.07	32	0.79	10.47'
1230	10.63	7.13	-288	1.07	30.5	0.79	10.47'

MW-5s: MW-5s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.7'. The well was purged and sampled at 200 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 6
Well Purging Data – MW-5s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water
1018	10.26	6.25	17	0.539	755	3.29	10.07'
1021	10.28	6.26	14	0.536	616	3.25	10.07'
1024	10.19	6.27	9	0.529	592	3.22	10.06'
1027	10.54	6.27	6	0.524	487	3.07	10.07'
1030	10.53	6.27	3	0.524	481	3.07	10.07'
1033	10.42	6.29	1	0.518	464	3.00	10.07'
1036	12.12	6.25	0	0.523	340	2.76	10.07'
1039	12.03	6.27	1	0.522	297	2.73	10.07'
1042	11.11	6.31	0	0.510	207	2.76	10.07'

MW-6s: MW-6s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.3'. The well was purged and sampled at 150 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.0 gallon was extracted from the well. No odorous or visual indications of contamination were observed.

Table 7
Well Purging Data – MW-6s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water
1258	8.73	6.02	-134	1.85	235	1.73	9.98'
1301	8.78	5.95	-117	1.98	269	1.33	10.00'
1304	9.27	6.00	-115	2.02	425	1.28	10.05'
1307	9.95	6.01	-117	2.01	501	1.23	10.07'
1310	9.99	6.02	-109	2.02	486	1.31	10.05'
1313	9.95	6.04	-108	2.05	414	1.37	10.05'
1316	9.84	6.06	-108	2.07	349	1.95	10.05'
1319	9.69	6.06	-106	2.08	342	1.81	10.05'
1322	9.70	6.08	-106	2.08	377	2.05	10.05'
1325	9.62	6.07	-105	2.09	374	2.26	10.05'

MW-1d: MW-1d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 60.0'. The well was purged and sampled at 220 ml / min. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 8
Well Purging Data – MW-1d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water
0854	10.74	9.75	-137	0.207	15.7	6.24	43.55'
0857	10.19	9.79	-128	0.206	15.7	6.21	43.69'
0900	9.86	9.81	-122	0.205	16.9	6.18	43.79'
0903	9.52	9.83	-116	0.205	15.0	6.06	43.90'
0906	9.49	9.88	-114	0.205	14.3	5.92	44.00'
0909	9.49	9.84	-107	0.205	14.0	5.90	44.10'
0912	9.29	9.85	-104	0.204	13.8	5.81	44.18'
0915	9.18	9.85	-102	0.205	14.7	5.73	44.25'
0918	9.14	9.86	-100	0.204	13.9	5.64	44.35'
0921	9.24	9.85	-95	0.204	13.1	5.53	44.50'

MW-2d: MW-2d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 66.0'. The well was purged and sampled at 150 ml / min. A total of 2.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 9
Well Purging Data – MW-2d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water
1551	10.36	7.13	-254	0.952	34.7	1.29	13.96'
1554	10.32	7.12	-256	0.950	37.5	1.27	14.06'
1557	10.15	7.12	-259	0.949	40.6	1.25	14.13'
1600	10.15	7.12	-261	0.948	38.4	1.24	14.29'
1603	10.18	7.12	-262	0.948	50.4	1.23	14.40'
1606	10.01	7.12	-264	0.945	48.7	1.20	14.50'
1609	10.06	7.12	-264	0.947	45.0	1.22	14.60'

MW-6d: MW-6d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 67.0'. The well was purged and sampled at 150 ml / min. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 10
Well Purging Data – MW-6d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water
1405	11.81	7.79	-87	0.435	46.3	2.65	55.90'
1408	11.61	7.80	-83	0.433	48.8	2.64	56.05'
1411	11.52	7.80	-81	0.433	48.8	2.65	56.10'
1414	11.42	7.80	-75	0.433	49.8	2.66	56.18'
1417	11.01	7.80	-70	0.431	47.9	2.67	56.26'
1420	10.89	7.80	-68	0.431	46.7	2.68	56.30'

MW-7d: MW-7d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 52.0The well was purged and sampled at 200 / min. A total of 2.5gallons was extracted from the well. Slight odorous indications of contamination observed.

Table 11
Well Purging Data – MW-7d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1456	10.98	7.79	-262	12.5	91.0	7.05	27.04'
1459	10.98	7.80	-263	12.6	64.9	6.71	27.24'
1502	11.08	7.80	-270	12.5	55.3	6.37	27.45'
1505	11.28	7.82	-276	12.4	54.9	6.06	27.55'
1508	11.33	7.82	-278	12.3	52.0	6.08	27.75'
1511	11.20	7.82	-283	12.2	51.8	5.53	27.90'
1514	11.25	7.82	-287	12.0	53.7	5.23	28.00'
1517	11.41	7.83	-291	11.8	54.8	5.01	28.10'
1520	11.42	7.83	-297	11.7	54.9	4.76	28.25'

Table 12
Final Sample Data Summary

Time	pH	Temp °C	Conductivity mS/cm	DO	ORP
MW-1s	6.40	11.49	0.903	6.53	-140
MW-2s	--	--	--	--	--
MW-3s	--	--	--	--	--
MW-4s	7.13	10.63	1.07	0.79	-288
MW-5s	6.31	11.11	0.501	2.76	0
MW-6s	6.07	9.62	2.09	2.26	-105
MW-1d	9.85	9.24	0.204	5.53	-95
MW-2d	7.12	10.06	0.947	1.22	-264
MW-6d	7.80	10.89	0.431	2.68	-68
MW-7d	7.83	11.42	11.7	4.76	-297

Table 13
Metals Data

Well #	Mn	Fe	Nitrate	Sulfate
MW-1s	5.4	1.66	2.0	24
MW-2s	--	--	--	--
MW-3s	--	--	--	--
MW-4s	7.3	0.62	3.1	1
MW-5s	1.7	0.25	>80	28
MW-6s	20.7	1.12	>80	41
MW-1d	0.0	0.60	1.2	3
MW-2d	4.7	1.96	0.0	--
MW-6d	0.0	0.07	>80	7
MW-7d	1.4	1.80	>80	80

Field Notes

TO: File
 FROM: Ray Hanley
 DATE: March 8, 2010
 PROJECT: Lewis Brothers Garage Property
 PROJECT NUMBER: 27058
 SUBJECT: Groundwater Sampling Activities

0815: Arrived onsite and initiated site activities with the collection of static water levels from the ten (10) groundwater monitoring wells and four (4) observations wells located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the ten (10) groundwater monitoring wells and two (2) of the four (4) observations wells. The general well information is as follows:

**Table 1
General Well Information**

Well #	SWL	TD	Depth	Rate	Purged
MW-1s	14.90'	21.95'	17.5'	0.08	1.0
MW-2s	17.60'	29.60'	*2.4	*7.2	8.0
MW-3s	16.30'	28.00'	*2.4	*7.2	8.0
MW-4s	13.45'	24.90'	18.4	0.21	2.0
MW-5s	14.21'	21.31'	16.4	0.13	1.5
MW-6s	12.21'	15.20'	13.7	0.13	1.5
MW-1d	43.67'	68.60'	60.0	0.10	4.0
MW-2d	17.14'	78.70'	66.0	0.12	1.5
MW-6d	59.83'	85.20'	67.0	0.12	2.0
MW-7d	30.28'	60.40'	52.0	0.10	5.0
OW-1	6.31'	11.58'	*3.13	*9.40	10.0
OW-2	5.59'	10.98'	--	--	--
OW-3	5.44'	90.92'	--	--	--
OW-4	4.79'	9.95'	*3.10	*9.30	10.0

*=1vol/3 vol

MW-1s: MW-1s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 17.5'. The well was purged and sampled at 80 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.0 gallons was extracted from the well.

Table 2
Well Purging Data – MW-1s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1514	13.08	7.84	-79	0.770	658	1.97	13.28'
1517	13.53	7.20	-44	0.786	580	1.74	13.33'
1520	14.04	6.97	-33	0.790	332	1.63	13.36'
1523	14.42	6.87	-30	0.794	263	1.56	13.36'
1526	14.76	6.83	-28	0.783	224	1.47	13.36'
1529	15.09	6.8	-29	0.782	198	1.46	13.36'
1532	15.37	6.8	-30	0.791	169	1.49	13.36'
1535	15.64	6.78	-31	0.786	160	1.42	13.36'
1538	15.90	6.78	-32	0.783	143	1.37	13.36'
1541	16.13	6.77	-33	0.782	130	1.36	13.36'
1544	16.32	6.77	-35	0.782	130	1.33	13.36'
1547	16.49	6.77	-35	0.778	122	1.26	13.36'

MW-2s: Due to the presence of Separate Phase Liquid (SPL), MW-2 was purged utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well after the removal of all SPL. The well maintained a steady recharge throughout the completion of purging activities. Strong odorous and visual indications of contamination were observed.

Table 3
Well Purging Data – MW-2s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
1438	11.42	7.38	-102.1	1.459	1.0	1.49	Silty
1441	11.31	7.30	-91.2	1.495	2.0	2.05	Silty
1444	11.38	7.28	-90.5	1.495	3.0	2.68	Silty
1445	11.41	7.26	-91.8	1.488	4.0	2.96	Silty
1449	11.58	7.26	-95.8	1.455	5.0	2.73	Silty
1452	11.47	7.25	-98.5	1.448	6.0	2.83	Silty
1454	11.75	7.25	-101.0	1.400	7.0	2.81	Silty
1457	11.56	7.24	-105.1	1.408	8.0	2.88	Silty

MW-3s: Due to the presence of Separate Phase Liquid (SPL), MW-2 was purged utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well after the removal of all SPL. The well maintained a steady recharge throughout the completion of purging activities. Strong odorous and visual indications of contamination were observed.

**Table 4
Well Purging Data – MW-3s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
1410	11.10	7.55	-65.2	0.794	1.0	2.76	Silty
1412	11.05	7.13	-83.8	0.888	2.0	2.34	Silty
1415	10.53	7.27	-88.5	0.929	3.0	2.34	Silty
1417	10.61	7.32	-91.1	0.971	4.0	2.09	Silty
1420	10.80	7.37	-97.6	1.008	5.0	1.86	Silty
1422	10.77	7.43	-101.4	1.017	6.0	1.93	Silty
1424	10.70	7.44	-100.2	1.010	7.0	2.05	Silty
1427	10.80	7.44	-102.1	0.999	8.0	1.69	Silty

MW-4s: MW-4s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 18.4'. The well was purged and sampled at 210 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well.

**Table 5
Well Purging Data – MW-4s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1754	9.94	7.59	-154	0.510	253	4.11	13.55'
1757	10.41	7.54	-172	0.543	213	6.42	13.13'
1800	10.62	7.53	-184	0.552	244	5.44	13.03'
1803	10.59	7.52	-190	0.555	204	5.19	13.01'
1806	10.80	7.52	-197	0.561	125	4.44	12.95'
1809	10.90	7.52	-200	0.573	47.7	3.83	12.88'
1812	10.94	7.52	-201	0.571	25.1	3.31	12.83'
1815	10.92	7.52	-202	0.566	16.5	2.86	12.83'

MW-5s: MW-5s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 16.4'. The well was purged and sampled at 130 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.5 gallons was extracted from the well.

Table 6
Well Purging Data – MW-5s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1312	13.86	7.15	85	0.396	659	2.51	11.52'
1315	14.39	6.60	92	0.401	410	1.44	11.55'
1318	14.26	6.48	94	0.405	296	1.27	11.60'
1321	14.16	6.44	98	0.407	273	1.18	11.61'
1324	14.08	6.41	101	0.408	209	1.16	11.61'
1327	14.01	6.40	104	0.407	173	1.11	11.61'
1330	13.90	6.40	105	0.409	164	1.05	11.61'
1333	13.72	6.39	106	0.412	155	1.03	11.61'
1336	13.62	6.39	106	0.414	137	0.98	11.61'
1339	13.47	6.40	106	0.415	114	0.95	11.61'
1342	13.35	6.40	106	0.415	90.7	0.92	11.61'
1345	13.22	6.40	106	0.418	81.9	0.91	11.61'
1348	13.16	6.42	105	0.415	95.6	0.89	11.61'
1351	13.02	6.42	106	0.418	102	0.86	11.61'

MW-6s: MW-6s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.7'. The well was purged and sampled at 130 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.5 gallons was extracted from the well.

Table 7
Well Purging Data – MW-6s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1045	8.82	6.97	120	1.600	335	5.46	12.50'
1048	9.10	6.80	102	1.630	337	2.24	12.60'
1051	9.95	6.73	86	1.670	248	1.73	12.65'
1054	9.97	6.69	69	1.660	176	1.52	12.65'
1057	10.16	6.68	53	1.660	105	1.37	12.65'
1100	10.94	6.69	42	1.700	92.8	1.29	12.65'
1103	10.86	6.70	35	1.680	27.2	1.21	12.61'
1106	10.93	6.71	32	1.670	20.9	1.17	12.61'
1109	10.46	6.72	30	1.650	24	1.12	12.65'

MW-1d: MW-1d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 60.0'. The well was purged and sampled at 100 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 4.0 gallons was extracted from the well.

Table 8
Well Purging Data – MW-1d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1410	11.22	11.20	-49	0.314	0	3.36	43.33'
1413	11.75	11.29	-72	0.322	0	3.24	43.43'
1416	11.45	11.26	-79	0.319	11.3	3.30	43.60'
1419	11.91	11.34	-89	0.324	1.3	3.09	43.71'
1422	11.68	11.37	-94	0.319	0	3.04	43.76'
1425	11.88	11.39	-94	0.314	0	2.93	43.80'
1428	11.49	11.37	-94	0.311	0	2.95	43.82'
1431	11.95	11.40	-94	0.312	0	2.76	43.86'
1434	12.19	11.40	-93	0.312	0	2.41	45.05'
1437	11.65	11.41	-92	0.322	0	2.98	45.11'
1440	10.98	11.43	-92	0.316	0.6	3.08	45.14'
1443	10.83	11.43	-93	0.315	0	3.07	45.14'
1446	10.77	11.42	-93	0.314	0	3.04	45.14'
1449	10.93	11.44	-94	0.315	0	3.01	45.14'
1452	10.97	11.42	-94	0.315	0	2.98	45.14'

MW-2d: MW-2d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 66.0'. The well was purged and sampled at 120 ml / min. A total of 1.5 gallons was extracted from the well.

Table 9
Well Purging Data – MW-2d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1720	11.00	7.41	-105	0.771	5.4	0.83	13.75'
1723	10.96	7.29	-121	0.758	0.2	0.67	13.92'
1726	11.04	7.27	-129	0.758	0	0.61	14.09'
1729	10.99	7.26	-133	0.756	0	0.58	14.22'
1732	10.86	7.26	-137	0.754	0	0.56	14.35'
1735	10.69	7.26	-139	0.749	0.3	0.55	14.45'

MW-6d: MW-6d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 67.0'. The well was purged and sampled at 120 ml / min. The well maintained a steady recharge throughout purging activities. A total of 2.0 gallons was extracted from the well.

Table 10
Well Purging Data – MW-6d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1146	11.87	8.00	-62	1.340	0	1.42	56.54'
1149	11.56	8.01	-63	1.320	0	1.41	56.60'
1152	11.34	8.03	-62	1.320	0	1.40	56.68'
1155	11.11	8.05	-61	1.300	0	1.34	56.73'
1158	10.90	8.05	-59	1.300	0	1.33	56.76'
1201	10.75	8.07	-58	1.280	0	1.33	56.79'
1204	10.89	8.08	-58	1.300	0	1.39	56.87'
1207	12.46	8.05	-61	1.370	4.5	1.16	57.03'
1210	12.47	8.06	-64	1.350	2.3	1.15	57.05'
1213	12.14	8.06	-63	1.330	3.7	1.13	57.05'
1216	11.03	8.08	-63	1.290	2.4	1.28	57.05'
1219	11.11	8.08	-62	1.300	2.5	1.27	57.05'
1222	11.03	8.08	-60	1.280	0.1	1.19	57.05'

MW-7d: MW-7d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 52.0'. The well was purged and sampled at 100 ml / min. A total of 5.0 gallons was extracted from the well.

Table 11
Well Purging Data – MW-7d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1611	16.17	7.44	-129	6.960	95	0.70	27.41'
1614	14.35	7.77	-172	6.890	83.2	0.54	27.52'
1617	14.96	7.84	-188	6.870	82.3	0.49	27.59'
1620	14.92	7.87	-197	6.850	79	0.48	27.66'
1623	14.90	7.88	-201	6.910	80.4	0.46	27.72'
1626	14.77	7.88	-203	7.010	74.9	0.48	27.77'
1641	13.43	8.04	-217	4.230	63.6	2.45	29.58'
1644	13.34	8.09	-230	4.230	83.6	0.56	29.76'
1647	13.23	8.13	-237	4.090	81.9	0.50	29.82'
1650	13.17	8.15	-241	4.000	86	0.48	29.82'
1653	13.13	8.17	-242	3.950	81.5	0.48	29.86'
1656	13.02	8.15	-243	3.840	79.7	0.46	29.88'
1659	12.83	8.17	-245	3.740	76.5	0.46	29.89'

OW-1: A total of 10.0 gallons was purged from OW-1 on March 8, 2010. No odorous or visual indications of contamination were observed during the purging, good recharge.

Table 12
Well Purging Data – OW-1

Time	pH	Temp °C	Conductivity mS/cm	Gallons Purged	Comments
1218	7.78	5.56	0.474	0.5	Cloudy
1221	7.75	4.97	0.555	1.0	Cloudy
1224	7.73	4.86	0.596	2.0	Cloudy
1227	7.71	4.89	0.636	3.5	Cloudy
1230	7.72	4.95	0.646	5.0	Cloudy
1233	7.72	5.05	0.683	6.0	Cloudy
1235	7.74	5.06	0.671	7.0	Cloudy
1237	7.75	4.93	0.645	8.0	Cloudy
1239	7.72	4.98	0.691	9.0	Cloudy
1240	7.74	5.01	0.703	10.0	Cloudy

OW-4: A total of 10.0 gallons was purged from OW-4 on March 8, 2010. No odorous or visual indications of contamination were observed during the purging, good recharge.

Table 13
Well Purging Data – OW-4

Time	pH	Temp °C	Conductivity mS/cm	Gallons Purged	Comments
1103	7.28	7.38	0.413	0.5	Cloudy
1105	7.53	6.80	0.397	1.0	Cloudy
1111	7.48	6.64	0.398	2.0	Cloudy
1119	7.48	6.18	0.390	3.0	Cloudy
1123	7.47	6.17	0.386	4.0	Cloudy
1127	7.50	6.07	0.386	5.0	Cloudy
1131	7.50	6.08	0.385	6.0	Cloudy
1136	7.50	6.08	0.385	8.0	Cloudy
1139	7.51	6.08	0.384	10.0	Cloudy

Table 14
Final Sample Data Summary

Time	pH (SU)	Temp (°C)	Conductivity mS/cm	D.O. (mg/L)	ORP (mV)	Sample Depth
MW-2s	7.24	11.54	1.415	3.13	-104.3	15.75'
MW-3s	7.46	10.83	1.000	1.51	-103.7	14.45'
OW-1	7.74	5.01	0.703	5.87	103.6	4.83'
OW-4	7.51	6.08	0.384	2.48	100.4	3.39'

Table 15
Final Sample Data Summary

Well #	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Sample Date
MW-1s	16.49	6.77	-35	0.778	122	1.26	3/9/2010
MW-4s	10.92	7.52	-202	0.566	16.5	2.86	3/9/2010
MW-5s	13.02	6.42	106	0.418	102	0.86	3/9/2010
MW-6s	10.46	6.72	30	1.650	24	1.12	3/9/2010
MW-1d	10.97	11.42	-94	0.315	0	2.98	3/9/2010
MW-2d	10.69	7.26	-139	0.749	0.3	0.55	3/9/2010
MW-6d	11.03	8.08	-60	1.280	0.1	1.19	3/9/2010
MW-7d	12.83	8.17	-245	3.740	76.5	0.46	3/9/2010

Table 16
Final Sample Data Summary

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)
MW-1s	3.8	1.16	> Limit	24
MW-2s	--	--	--	--
MW-3s	--	--	--	--
MW-4s	4.1	0.35	1.5	7
MW-5s	1.1	0.07	1.5	36
MW-6s	12.6	0.28	0.0	40
MW-1d	0.0	0.00	1.2	7
MW-2d	4.4	3.03	0.8	0
MW-6d	0.0	0.00	0.0	13
MW-7d	1.1	0.84	0.0	39
OW-1	--	--	--	--
OW-4	--	--	--	--

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 27058

Contact:

Date: June 11, 2010

Well No.	Time	pH	Temp °C	Conductivity uS/cm	DO mg/l	ORP mV	Gallons Purged
MW-9s	1035	7.48	11.56	0.802	6.26	78.9	26.0
	1038	7.41	11.13	0.830	6.66	80.6	30.0
	1040	7.38	10.86	0.828	6.78	83.4	33.0
	1043	7.41	11.02	0.814	6.50	83.1	35.0
	1045	7.41	10.88	0.815	6.62	82.8	38.0
	1046	7.40	10.94	0.817	6.49	82.8	40.0
	1048	7.42	10.86	0.827	6.68	82.8	42.0
	1049	7.43	10.86	0.830	6.96	82.1	45.0
	1051	7.44	10.86	0.817	6.61	82.1	47.0
	1052	7.43	10.91	0.813	6.88	82.1	50.0
	1054	7.44	10.94	0.813	6.59	82.1	52.0
	1055	7.45	10.90	0.803	6.78	81.4	55.0
	1057	7.44	10.94	0.804	6.57	81.8	57.0
	1059	7.45	11.50	0.794	6.46	80.6	60.0
MW-10s	1145	--	--	--	--	--	15.0
	1221	7.48	11.66	1.499	5.34	29.4	16.0
	1225	7.45	10.59	1.470	6.45	30.2	20.0
	1227	7.41	10.08	1.433	7.20	31.5	21.0
	1228	7.40	9.95	1.437	6.59	23.1	23.0
	1230	7.43	9.91	1.420	6.49	9.6	24.0
	1232	7.46	9.98	1.433	6.75	0.2	25.0
	1235	7.51	9.87	1.505	7.04	-24.3	26.0
1239	7.53	10.00	1.597	9.60	-26.8	27.0	
MM-11s	1330	7.35	10.56	0.614	7.81	-80.4	41.0
	1332	7.20	9.94	0.616	7.18	-77.3	45.0
	1334	7.09	10.05	0.606	2.26	-77.6	50.0
	1336	7.06	10.07	0.607	1.88	-81.5	53.0
	1337	7.11	9.83	0.608	2.44	-86.9	55.0
	1345	7.22	9.72	0.613	2.35	-96.4	58.0
	1346	7.16	9.87	0.614	1.92	-95.0	60.0
	1348	7.17	9.69	0.616	2.42	-94.6	65.0
1350	7.17	9.25	0.613	2.58	-94.9	70.0	

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 22126.01

Contact:

Date: June 11, 2010

Well No.	Time	pH	Temp °C	Conductivity uS/cm	DO mg/l	ORP mV	Gallons Purged
MW-12s*	1415	--	--	--	--	--	0.0
	1418	--	--	--	--	--	1.5
	1422	--	--	--	--	--	2.0
	1425	--	--	--	--	--	2.5
	1428	--	--	--	--	--	4.0
	1431	--	--	--	--	--	4.5
	1435	--	--	--	--	--	5.5
	1440	--	--	--	--	--	7.0
	1444	--	--	--	--	--	8.5
	1451	--	--	--	--	--	10.0
MW-13s**	1500	--	--	--	--	--	0.0
	1505	--	--	--	--	--	2.0

(*) MW-12s was extremely silty and recharge was poor. No readings were collected. Additional development is required.

(**) MW-13s was dry at the time of installation. Pennsylvania Tectonics measured 2.26' of water prior to development. No recharge was experienced since the well was evacuated.

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 27058

Contact:

Date: June 11, 2010

GENERAL WELL INFORMATION

Well No.	S.W.L. (TOC)*	Total Depth (TOC)	Amount Purged (Gallon)
MW-7s	16.45'	27.51'	60.0
MW-8s	7.46'	23.52'	65.0
MW-9s	25.85'	39.10'	60.0
MW-10s	9.19'	18.53'	27.0
MW-11s	4.68'	23.54'	70.0
MW-12s	7.08'	19.97'	10.0
MW-13s	15.92'	18.18'	2.0

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Mrs. Ruth Lewis

Date: June 15, 2010

WELL GENERAL

Well No.	S.W.L. (TOC)*	Total Depth (TOC)	Amount Purged (Gallon)
MW-8d	70.18'	100.0'	150.0
MW-9d	71.24'	172.0'	200.0
MW-10d	75.97'	186.0'	160.0
MW-11d	73.25'	128.0'	160.0
MW-12d	65.02'	200.0'	175.0
MW-13d	49.42'	180.0'	75.0

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Mrs. Ruth Lewis

Date: June 15, 2010

Well No.	Time	pH	Temp °C	Conductivity mS/cm	Gallons Purged	Comments
MW-8d	0730	--	--	--	--	Started
	0755	--	--	--	55.0	Evacuated
	0827	--	--	--	--	Start
	0840	7.29	14.35	0.413	70.0	Very Silty
	0845	7.35	13.30	0.421	80.0	Very Silty
	0850	7.29	12.89	0.424	90.0	Very Silty
	0858	7.26	12.95	0.424	100.0	Very Silty
	0908	7.33	14.08	0.396	110.0	Very Silty
	0913	7.33	13.03	0.414	120.0	Silty
	0919	7.00	15.14	0.391	125.0	Silty
	0924	7.37	14.40	0.394	130.0	Cloudy
	0927	7.32	14.16	0.396	135.0	Cloudy
	0931	7.29	14.24	0.396	140.0	Cloudy
	0935	7.26	14.11	0.392	145.0	Slightly Cloudy
	0939	--	--	--	150.0	End
MW-9d	1055	--	--	--	--	Start
	1113	7.23	11.40	0.496	80.0	Slightly Cloudy
	1118	7.21	11.40	0.502	100.0	Clear
	1122	7.19	11.45	0.499	120.0	Clear
	1126	7.16	11.46	0.503	140.0	Clear
	1128	7.10	11.40	0.500	150.0	Clear
	1130	7.07	11.37	0.499	160.0	Clear
	1133	7.08	11.45	0.499	170.0	Clear
	1135	7.07	11.42	0.500	180.0	Clear
	1136	7.04	11.30	0.500	190.0	Clear
	1139	7.04	11.30	0.500	200.0	Clear

No odor or visual observed during development of MW-8d or MW-9d

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Mrs. Ruth Lewis

Date: June 15, 2010

Well No.	Time	pH	Temp °C	Conductivity mS/cm	Gallons Purged	Comments
MW-10d	1332	--	--	--	--	Start
	1353	7.34	12.50	0.573	80.0	Clear
	1403	7.32	12.57	0.568	100.0	Clear
	1413	7.37	12.60	0.571	120.0	Clear
	1424	7.36	12.79	0.567	140.0	Clear
	1434	7.37	12.88	0.568	160.0	Clear
MW-11d	1508	--	--	--	--	Start
	1524	7.58	12.08	0.412	50.0	Cloudy
	1527	7.41	11.83	0.404	60.0	Cloudy
	1531	7.42	11.83	0.400	70.0	Cloudy
	1534	7.46	11.71	0.394	80.0	Silty
	1537	7.42	11.70	0.394	90.0	Silty
	1540	7.39	11.73	0.395	100.0	Silty
	1544	7.41	11.77	0.389	110.0	Silty
	1547	7.40	11.77	0.381	120.0	Very Cloudy
	1550	7.38	11.77	0.376	130.0	Cloudy
	1554	7.38	11.82	0.372	140.0	Slightly Cloudy
	1558	7.37	11.91	0.375	150.0	Cloudy
	1601	7.40	11.90	0.371	160.0	Cloudy
MW-12d	0935	--	--	--	--	Start
	1005	--	--	--	--	Very Silty
	1015	--	--	--	--	Very Silty
	1041	7.30	13.82	0.561	100.0	Cloudy
	1043	7.15	12.90	0.545	110.0	Cloudy
	1045	6.80	12.50	0.541	120.0	Cloudy
	1047	6.77	12.35	0.542	130.0	Slightly Cloudy
	1049	6.81	12.08	0.541	140.0	Slightly Cloudy
	1051	6.83	12.03	0.541	150.0	Slightly Cloudy
	1054	6.81	12.04	0.541	160.0	Slightly Cloudy
	1056	6.82	12.01	0.539	170.0	Slightly Cloudy
	1057	6.83	11.99	0.540	175.0	Slightly Cloudy

No odor or visual observed during the development of MW-10d, MW-11d or MW-12d.

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 22126.01

Contact: Mrs. Ruth Lewis

Date: June 21, 2010

Well No.	Time	pH	Temp °C	Conductivity mS/cm	Gallons Purged	Comments
MW-13d	1257	--	--	--	0	Pump On
	1305	--	--	--	30.0	V. Silty
	1306	--	--	--	--	Pump Clogged
	1330	--	--	--	--	Pump On
	1340	--	--	--	75.0	V. Silty
	1341	--	--	--	--	Pump Clogged

No odor or visual observed during the development of MW-13d.

Field Notes

TO: File
 FROM: Ray Hanley
 DATE: August 2 to 4, 2010
 PROJECT: Lewis Brothers Garage Property
 PROJECT NUMBER: 27058
 SUBJECT: Groundwater Sampling Activities

0630: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-three (23) groundwater monitoring wells and four (4) observations wells located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-three (23) groundwater monitoring wells and the four (4) observations wells. The general well information is as follows:

**Table 1
 General Well Information**

Well #	SWL	TD	Depth	Rate	Purged
MW-1s	14.90'	21.95'	*1.20	*3.60	3.00 gal.
MW-2s	17.60'	29.60'	*2.00	*6.00	6.00 gal.
MW-3s	16.30'	28.00'	*2.00	*6.00	6.00 gal.
MW-4s	13.45'	24.90'	24.90'	0.32	4.00 gal.
MW-5s	14.21'	21.31'	*1.20	*3.60	2.50 gal.
MW-6s	14.86'	15.20'	*0.06	*0.18	0.25 gal.
MW-7s	18.80'	27.51'	23.20'	0.37	2.50 gal.
MW-8s	12.08'	23.52'	17.80'	0.25	2.00 gal.
MW-9s	28.03'	39.10'	33.60'	0.34	3.00 gal.
MW-10s	11.35'	18.53'	15.00'	0.17	3.00 gal.
MW-11s	6.50'	23.54'	15.00'	0.33	2.00 gal.
MW-12s	8.18'	19.97'	2.00'	6.00	3.00 gal.
MW-13s	15.96'	18.18'	1.50'	4.50	4.20 gal.
MW-1d	43.67'	68.60'	*36.60	*109.8	36.00 gal.
MW-2d	17.14'	78.70'	*90.50	*271.5	97.00 gal.
MW-6d	59.83'	85.20'	*37.30	*111.9	31.00 gal.
MW-7d	30.28'	60.40'	*44.30	*132.9	46.00 gal.
MW-8d	72.37'	100.00'	90.00'	0.26	3.00 gal.
MW-9d	73.06'	172.00'	162.00'	0.40	2.00 gal.
MW-10d	74.94'	186.00'	176.00'	0.28	4.00 gal.
MW-11d	78.31'	128.00'	118.00'	0.34	3.50 gal.
MW-12d	66.57'	201.00'	191.00'	0.34	3.00 gal.
MW-13d	51.02'	182.00'	172.00'	0.32	8.00 gal.
OW-1	6.31'	11.58'	11.58'	--	NS
OW-2	5.59'	10.98'	10.98'	--	NS
OW-3	5.44'	90.92'	10.92'	--	NS
OW-4	4.79'	9.95'	9.95'	3.40	10.00 gal.

*=1vol/3vol

NS= not sampled

MW-1s: Due to insufficient recharge for low flow / low stress sampling methods, MW-1s was purged and sampled utilizing hand bailing methods. A total of 3.0 gallons was extracted from the well.

Table 2
Well Purging Data – MW-1s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
1330	15.25	6.40	9.8	1.157	1.0	1.76	V. Silty
1333	12.94	5.80	25.9	1.137	2.0	3.10	V. Silty
1336	12.42	5.47	15.0	1.099	3.0	3.74	V. Silty

MW-2s: Due to the presence of Separate Phase Liquid (SPL), MW-2 was purged utilizing hand bailing methods. A total of 6.0 gallons was extracted from the well after the removal of all SPL. Strong odorous and visual indications of contamination were observed.

Table 3
Well Purging Data – MW-2s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
--	--	--	--	--	--	--	--

MW-3s: Due to the presence of Separate Phase Liquid (SPL), MW-3s was purged utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well after the removal of all SPL. The well maintained a steady recharge throughout the completion of purging activities. Strong odorous and visual indications of contamination were observed.

Table 4
Well Purging Data – MW-3s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
--	--	--	--	--	--	--	--

MW-4s: MW-4s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 19.2. The well was purged and sampled at 320 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 4.0 gallons was extracted from the well.

Table 5
Well Purging Data – MW-4s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0829	17.89	7.11	-210	0.803	11.6	0.48	16.04
0832	17.9	7.12	-215	0.805	12.9	0.47	16.04
0835	17.84	7.13	-219	0.806	7.6	0.45	16.04
0838	17.74	7.13	-223	0.806	3.5	0.44	16.04
0841	17.90	7.13	-226	0.811	1.4	0.42	16.04
0844	18.19	7.14	-228	0.819	0.0	0.41	16.04
0847	18.09	7.15	-231	0.816	0.0	0.41	16.04
0850	18.19	7.15	-233	0.820	0.0	0.39	16.04

MW-5s: MW-5s is characterized as too turbid for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. The well maintained steady recharge throughout the duration of purging activities. A total of 10.0 gallons was extracted from the well. No odorous or visual indications of contamination was observed during purging activities.

Table 6
Well Purging Data – MW-5s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1441	14.47	6.40	22.9	0.534	1.0	2.78	V. Silty
1443	13.43	5.36	86.0	0.543	2.0	2.60	V. Silty
1445	12.50	5.20	107.9	0.534	3.0	2.15	V. Silty
1447	12.31	5.03	118.1	0.550	4.0	3.45	V. Silty
1448	11.92	4.99	125.4	0.536	5.0	3.04	V. Silty
1449	11.80	4.95	128.9	0.540	6.0	5.07	V. Silty
1450	11.60	4.89	133.2	0.543	7.0	3.87	V. Silty
1451	11.46	4.89	136.1	0.537	8.0	3.54	V. Silty
1454	11.48	5.00	137.4	0.520	9.0	3.53	V. Silty
1456	11.48	5.00	137.6	0.512	10.0	4.60	V. Silty

MW-6s: MW-6s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and samples utilizing hand bailing method. A total of 0.25 gallons was extracted from the well.

Table 7
Well Purging Data – MW-6s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1225	16.12	6.63	79.1	2.050	0.25	3.34	Silty

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 23.2'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.5 gallons was extracted from the well.

Table 8
Well Purging Data – MW-7s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0922	16.41	7.13	-55	0.983	9.3	4.18	18.98
0925	16.40	7.10	-53	0.981	7.0	4.09	19.00
0928	16.32	7.10	-52	0.976	4.9	4.02	19.00
0931	16.43	7.09	-51	0.976	4.9	3.97	19.00
0934	16.46	7.09	-50	0.976	4.8	3.93	19.01
0937	16.57	7.08	-48	0.976	5.6	3.90	19.00
0940	16.55	7.07	-46	0.971	5.6	3.88	19.00
0943	16.61	7.07	-44	0.970	5.0	3.84	19.00

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 17.8'. The well was purged and sampled at 250 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well.

Table 9
Well Purging Data – MW-8s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0807	15.74	6.71	44	1.30	6.3	2.16	12.27
0810	15.99	6.68	37	1.31	8.1	2.11	12.33
0813	16.14	6.67	34	1.32	8.6	2.09	12.36
0816	16.38	6.67	33	1.33	8.3	2.09	12.37
0819	16.63	6.67	31	1.34	11.4	2.08	12.37
0822	16.76	6.67	31	1.34	11.9	2.08	12.37
0825	16.83	6.67	30	1.34	11.4	2.05	12.37
0828	16.84	6.67	30	1.33	13.2	2.04	12.37

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 33.6'. The well was purged and sampled at 340 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well.

Table 10
Well Purging Data – MW-9s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0956	15.37	7.22	-25	0.57	110.0	4.74	28.39
0959	15.64	7.21	-26	0.574	110.0	4.72	28.41
1002	15.78	7.21	-28	0.576	121.0	4.72	28.41
1005	15.78	7.21	-27	0.575	126.0	4.73	28.42
1008	15.77	7.21	-26	0.571	95.4	4.80	28.42
1011	15.94	7.21	-24	0.572	93.7	4.77	28.42
1014	15.98	7.21	-22	0.573	74.5	4.78	28.42
1017	15.94	7.2	-21	0.572	74.6	4.76	28.42
1020	16.01	7.21	-20	0.574	58.9	4.74	28.42
1023	16.04	7.20	-19	0.574	49.7	4.73	28.42
1026	16.09	7.20	-18	0.575	45.7	4.73	28.42

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.0'. The well was purged and sampled at 170 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

Table 11
Well Purging Data – MW-10s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1035	15.52	7.31	-96	1.270	17.1	0.36	12.21
1038	16.35	7.28	-98	1.280	15.3	0.32	12.21
1041	16.78	7.24	-100	1.260	9.0	0.33	12.25
1044	16.41	7.22	-100	1.220	3.6	0.32	12.30
1047	16.80	7.20	-99	1.230	3.9	0.31	12.32
1050	17.46	7.19	-100	1.250	2.5	0.31	12.31
1053	17.66	7.18	-101	1.260	4.9	0.33	12.32
1056	17.62	7.18	-101	1.260	3.7	0.33	12.32
1059	17.64	7.18	-101	1.270	3.0	0.33	12.32

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.0'. The well was purged and sampled at 330 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

Table 12
Well Purging Data – MW-11s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1128	16.93	7.10	-132	0.462	17.7	0.33	6.64
1131	16.72	7.08	-135	0.460	15.1	0.30	6.65
1134	16.72	7.05	-137	0.463	12.5	0.29	6.66
1137	16.67	7.05	-138	0.465	9.8	0.28	6.66
1140	16.63	7.04	-139	0.463	7.8	0.28	6.66
1143	16.62	7.03	-139	0.464	7.4	0.28	6.66

MW-12s: MW-12s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 3.0 gallons was extracted from the well. Distinct gas odorous indications was observed during purging activities.

**Table 13
Well Purging Data – MW-12s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
0950	14.67	7.05	--	0.748	0.25	--	Milky
0952	14.47	6.78	--	0.749	0.50	--	Cloudy
0958	--	--	--	--	1.80	--	Dry
1019	13.36	6.33	--	0.710	2.50	--	Cloudy
1029	13.04	6.83	--	0.715	3.00	--	Cloudy

MW-13s: MW-13s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 4.2 gallons was extracted from the well.

**Table 14
Well Purging Data – MW-13s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1003	13.71	6.35	--	0.273	0.20	--	Clear
1005	12.98	5.97	--	0.248	2.00	--	Silty
1007	12.84	5.53	--	0.237	3.00	--	Silty
1009	12.52	5.49	--	0.237	3.50	--	Silty
1010	12.50	5.35	--	0.237	3.80	--	Silty
1011	12.83	5.58	--	0.241	4.20	--	Silty
1015	--	--	--	--	--	--	Dry

MW-1d MW-1d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 36.0 gallons was extracted from the well.

**Table 15
Well Purging Data – MW-1d**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0845	12.55	8.00	78.8	0.324	10.0	1.65	Clear
0847	12.35	7.44	93.0	0.210	20.0	1.89	Clear
0849	12.42	7.51	87.4	0.168	30.0	5.02	Clear
0851	--	--	--	--	36.0	--	Evacuated

MW-2d: MW-2d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 102.0 gallons was extracted from the well.

Table 16
Well Purging Data – MW-2d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0957	13.22	6.78	-122.6	1.084	10.0	1.45	Silty
0959	12.87	6.53	-118.1	1.083	20.0	1.25	Silty
1001	12.87	6.51	-118.7	1.082	30.0	1.40	Silty
1003	12.41	6.54	-119.2	1.043	40.0	1.84	Silty
1005	12.27	6.57	-119.1	0.923	50.0	2.01	Silty
1007	12.07	6.76	-124.9	0.669	60.0	1.12	Silty
1009	12.10	6.82	-125.5	0.612	70.0	1.17	Silty
1011	12.27	6.89	-127.2	0.594	80.0	1.16	Silty
1013	12.56	7.04	-159.2	0.589	90.0	1.16	V. Cloudy
1015	--	--	--	--	97.0	--	Evacuated
1025	--	--	--	--	102.0	--	Evacuated

MW-6d: MW-6d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 31.0 gallons was extracted from the well.

Table 17
Well Purging Data – MW-6d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
0746	19.71	7.56	46.8	1.330	1.0	3.78	Cloudy
0749	13.30	7.54	62.0	0.540	10.0	4.56	Cloudy
0750	12.80	6.84	99.6	0.488	20.0	5.44	S. Cloudy
0752	12.57	6.36	23.9	0.471	30.0	5.96	S. Cloudy
0753	--	--	--	--	31.0	--	Evacuated

MW-7d: MW-7d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 46.0 gallons was extracted from the well.

Table 18
Well Purging Data – MW-7d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0923	12.98	8.08	-171.8	2.211	10.0	1.60	Silty
0925	12.53	7.82	-180.8	1.388	20.0	1.60	Silty
0927	12.51	7.54	-173.4	1.272	30.0	1.74	Cloudy
0929	12.61	7.34	-168.4	1.244	40.0	1.89	Cloudy
0930	--	--	--	--	46.0	--	Evacuated

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 90.0'. The well was purged and sampled at 260 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well.

Table 19
Well Purging Data – MW-8d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0721	15.13	7.10	-17	0.397	9.2	2.52	73.24
0724	15.25	7.08	-21	0.392	7.3	2.40	73.40
0727	15.33	7.08	-22	0.389	7.8	2.31	73.43
0730	15.46	7.07	-23	0.389	7.3	2.23	73.44
0733	15.46	7.07	-23	0.387	6.4	2.17	73.44
0736	15.49	7.07	-24	0.387	6.1	2.14	73.44
0739	15.51	7.07	-25	0.385	5.7	2.08	73.44
0742	15.45	7.08	-28	0.382	5.2	2.04	73.44
0745	15.67	7.09	-31	0.384	4.4	1.97	73.44
0748	15.76	7.10	-33	0.384	3.8	1.95	73.44
0751	15.75	7.12	-34	0.384	4.0	1.96	73.44

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 400 ml / min. A total of 2.0 gallons was extracted from the well.

Table 20
Well Purging Data – MW-9d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0856	13.24	7.47	30	0.370	10.1	1.09	73.86
0859	12.38	7.32	8	0.345	8.7	0.67	73.81
0902	12.29	7.27	-18	0.340	6.4	0.58	73.78
0905	12.35	7.24	-34	0.338	6.7	0.54	73.74
0908	12.39	7.23	-45	0.336	6.6	0.50	73.69
0911	12.36	7.23	-51	0.332	6.1	0.48	73.65
0914	12.40	7.20	-53	0.330	6.7	0.46	73.61
0917	12.40	7.20	-54	0.327	5.7	0.45	73.61

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 52.0'. The well was purged and sampled at 280 ml / min. A total of 4.0 gallons was extracted from the well.

Table 21
Well Purging Data – MW-10d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1055	12.43	7.20	35	0.445	3.3	0.69	79.38
1058	12.49	7.14	13	0.445	2.5	0.61	79.59
1101	12.50	7.10	-7	0.446	2.3	0.57	79.75
1104	12.49	7.07	-19	0.445	2.2	0.54	79.94
1107	12.64	7.05	-24	0.447	2.0	0.50	80.07
1110	12.83	7.06	-27	0.449	2.3	0.47	80.13
1113	12.82	7.05	-29	0.449	2.2	0.47	80.13
1116	12.92	7.04	-29	0.450	1.7	0.47	80.12
1119	12.67	7.04	-30	0.447	1.9	0.47	80.12
1122	12.48	7.03	-30	0.445	2.0	0.47	80.11
1125	12.47	7.02	-30	0.445	1.8	0.45	80.11
1128	12.64	7.02	-31	0.447	1.4	0.44	80.11
1131	12.49	7.02	-30	0.445	1.5	0.43	80.11
1134	12.71	7.01	-30	0.448	1.0	0.42	80.11
1137	12.64	7.03	-31	0.447	1.2	0.41	80.11
1140	12.74	7.04	-32	0.448	0.8	0.40	80.11

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 340 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well.

Table 22
Well Purging Data – MW-11d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1226	13.33	7.63	5	0.329	20.6	0.54	75.60
1229	13.91	7.59	-16	0.33	23.2	0.58	75.58
1232	13.77	7.57	-31	0.326	20.6	0.62	75.59
1235	14.00	7.55	-41	0.326	21.4	0.66	75.59
1238	13.93	7.53	-49	0.324	23.3	0.69	75.59
1241	14.04	7.52	-55	0.324	22.3	0.70	75.59
1244	14.13	7.51	-59	0.323	20.2	0.69	75.59
1247	14.05	7.51	-62	0.322	20.2	0.69	75.59
1250	14.28	7.49	-64	0.323	17.8	0.67	75.59
1253	14.36	7.49	-66	0.323	16.3	0.65	75.59
1256	14.25	7.48	-67	0.321	15.8	0.64	75.59

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 340 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well.

Table 23
Well Purging Data – MW-12d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1335	12.58	7.43	-32	0.473	60.4	0.65	66.79
1338	12.64	7.42	-49	0.474	56.0	0.59	66.81
1341	12.70	7.41	-58	0.475	44.7	0.56	66.78
1344	12.69	7.40	-64	0.475	45.8	0.54	66.76
1347	12.78	7.39	-69	0.475	34.7	0.51	66.75
1350	12.91	7.38	-73	0.476	32.0	0.49	66.75
1353	12.76	7.38	-75	0.474	27.3	0.48	66.72
1356	12.73	7.38	-76	0.472	21.3	0.46	66.71
1359	12.81	7.37	-75	0.472	18.0	0.45	66.71

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 320 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 8.0 gallons was extracted from the well.

Table 24
Well Purging Data – MW-13d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1543	12.99	7.39	-88	0.317	91.8	0.40	51.07
1546	13.08	7.40	-88	0.318	77.5	0.40	51.06
1549	13.24	7.40	-87	0.320	78.7	0.39	51.06
1552	13.39	7.41	-88	0.321	71.9	0.39	51.06
1555	13.31	7.43	-88	0.320	65.1	0.40	51.06
1558	13.35	7.44	-88	0.321	67.0	0.40	51.06

OW-1: A total of 0.0 gallons was purged from OW-1. No odorous or visual indications of contamination were observed during the purging activities, good recharge.

Table 25
Well Purging Data – OW-1

Time	pH	Temp °C	Conductivity mS/cm	Gallons Purged	Comments
--	--	--	--	--	--

OW-4: A total of 10.0 gallons was purged from OW-4 on. No odorous or visual indications of contamination were observed during the purging activities.

**Table 25
Well Purging Data – OW-4**

Time	pH	Temp °C	Conductivity mS/cm	Gallons Purged	Comments
0906	7.40	18.99	0.517	1.0	Clear
0908	7.41	18.94	0.456	2.5	Clear
0909	7.43	18.84	0.454	3.5	Clear
0910	7.43	18.69	0.451	5.0	Clear
0913	7.40	18.67	0.450	6.0	Clear
0915	7.41	18.74	0.453	7.0	Clear
0916	7.41	18.86	0.454	8.5	Clear
0917	7.43	18.96	0.456	10.0	Clear

**Table 26
Final Sample Data Summary**

Time	pH (SU)	Temp (°C)	Conductivity mS/cm	D.O. (mg/L)	ORP (mV)	Sample Depth
MW-2s	--	--	--	--	--	17.97'
MW-3s	--	--	--	--	--	17.42'
OW-1	--	--	--	--	--	--
OW-4	7.43	18.96	0.456	--	--	--

**Table 27
Final Sample Data Summary**

Well #	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Sample Depth
MW-1s	12.69	5.88	-25.1	0.962	--	2.54	17.50'
MW-5s	12.05	5.47	122.9	0.496	--	1.51	17.27'
MW-6s	--	--	--	--	--	--	18.90'
MW-12s	--	--	-50.0	--	--	2.60	15.44'
MW-13s	14.30	6.40	123.6	0.315	--	10.16	16.91'
MW-1d	12.01	7.25	93.6	0.318	--	7.93	65.97'
MW-2d	13.73	7.43	-24.1	1.040	--	9.90	73.82'
MW-6d	13.80	7.83	28.3	0.474	--	4.22	28.30'
MW-7d	13.55	7.43	-144.0	4.153	--	0.50	59.61'

Table 28
Final Sample Data Summary

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)
MW-1s	--	--	--	--
MW-2s	--	--	--	--
MW-3s	--	--	--	--
MW-4s	6.8	0.42	2.1	0
MW-5s	--	--	--	--
MW-6s	--	--	--	--
MW-7s	0.0	0.02	0.5	22
MW-8s	0.1	0.07	1.7	>80
MW-9s	0.0	0.04	2.4	33
MW-10s	10.3	0.10	0.8	7
MW-11s	6.0	1.38	0.4	0
MW-12s	--	--	--	--
MW-13s	--	--	--	--
MW-1d	0.1	0.03	0.0	8
MW-2d	--	--	--	--
MW-6d	0.1	0.03	0.0	6
MW-7d	--	--	--	--
MW-8d	0.0	0.05	1.1	56
MW-9d	0.1	0.02	1.0	14
MW-10d	0.0	0.04	1.3	18
MW-11d	0.0	0.03	0.6	11
MW-12d	0.3	0.02	3.2	51
MW-13d	0.1	0.06	0.5	10
OW-1	--	--	--	--
OW-2	--	--	--	--
OW-3	--	--	--	--
OW-4	0.4	0.01	0.3	24

Table 29
Final Sample Data Summary

Well #	Date	Time
MW-1s	8.3.10	1350
MW-2s	8.2.10	0840
MW-3s	8.2.10	0901
MW-4s	8.4.10	0852
MW-5s	8.3.10	1506
MW-6s	8.3.10	1242
MW-7s	8.4.10	0945
MW-8s	8.2.10	0830
MW-9s	8.2.10	1030
MW-10s	8.4.10	1101
MW-11s	8.4.10	1145
MW-12s	8.2.10	1040
MW-13s	8.2.10	1618
MW-1d	8.3.10	1525
MW-2d	8.3.10	1120
MW-6d	8.3.10	1131
MW-7d	8.3.10	1530
MW-8d	8.2.10	0753
MW-9d	8.2.10	0919
MW-10d	8.2.10	1142
MW-11d	8.2.10	1258
MW-12d	8.2.10	1400
MW-13d	8.2.10	1601
SW1	Dry	NS
SW2	Dry	NS
SW3	Dry	NS
FB1	8.2.10	1620
FB2	8.3.10	1540
FB3	8.4.10	1200
OW-1	NS	--
OW-2	NS	--
OW-3	NS	--
OW-4	8.2.10	0920

NS= Not Sampled

Field Notes

TO: File

FROM: Ray Hanley

DATE: September 26 - 28, 2010

PROJECT: Lewis Brothers Garage Property

PROJECT NUMBER: 27058

SUBJECT: Groundwater Sampling Activities

0745: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations wells located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater monitoring wells and the four (4) observations wells. The general well information is as follows:

**Table 1
General Well Information**

Well #	SWL	TD	Depth	Rate	Purged
MW-1s	9.35'	21.95'	*2.10	*6.30	10.00 gal.
MW-2s	11.57'	29.60'	*3.00	*9.00	10.00 gal.
MW-3s	10.36'	28.00'	*2.9	*8.80	10.00 gal.
MW-4s	7.25'	24.90'	16.10	0.22	2.50 gal.
MW-5s	7.48'	21.31'	*2.30	*6.90	10.00 gal.
MW-6s	8.44'	15.20'	*1.10	*3.30	2.00 gal.
MW-7s	12.88'	27.51'	20.20'	0.34	2.00 gal.
MW-8s	3.31'	23.52'	14.40'	0.25	2.00 gal.
MW-9s	22.11'	39.10'	30.60	0.21	2.00 gal.
MW-10s	6.36'	18.53'	12.50'	0.17	2.00 gal.
MW-11s	1.51'	23.54'	12.50'	0.30	1.50 gal.
MW-12s	0.66'	19.97'	3.20	9.60	10.00 gal.
MW-13s	14.55'	18.18'	*1.60	*4.8	3.00 gal
MW-14s	2.29'	19.85'	11.50'	0.30	3.50 gal
MW-15s	3.49'	19.13'	*2.60	*7.80	8.00 gal
MW-16s	32.80'	37.67'	*0.80	*2.40	2.00 gal
MW-17s	15.47'	29.20'	*2.30	*6.90	10.00 gal.
MW-1d	41.79'	68.60'	*39.40	*118.2	20.00 gal.
MW-2d	12.46'	78.70'	*	*	118.00 gal.
MW-6d	55.38'	85.20'	*	*	36.00 gal.
MW-7d	27.75'	60.40'	*	*	57.00 gal.
MW-8d	67.20'	100.00'	90.00'	0.25	3.50 gal
MW-9d	67.74'	172.00'	162.00'	0.38	5.00 gal.
MW-10d	68.98'	186.00'	176.00'	0.15	3.50 gal.
MW-11d	67.95'	128.00'	118.00'	0.35	6.00 gal.
MW-12d	59.53'	201.00'	191.00'	0.23	4.00 gal.
MW-13d	43.94'	182.00'	172.00'	0.40	4.00 gal.
OW-1	2.20'	11.58'	--	--	NS
OW-2	1.50'	10.98'	--	--	NS
OW-3	1.29'	1.92'	--	--	NS
OW-4	0.68'	9.95'	*4.2	*12.60	13.00 gal.

*=1vol/3vol

NS= not sampled

MW-1s: Due to insufficient recharge for low flow / low stress sampling methods, MW-1s was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well.

Table 2
Well Purging Data – MW-1s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
1253	17.16	5.82	75.4	0.733	0.25	0.94	Silty
1254	16.16	6.00	68.1	0.899	1.0	1.15	Silty
1255	15.89	6.06	67.4	0.986	2.0	1.45	Silty
1256	15.50	6.11	67.7	1.031	3.0	1.61	Silty
1257	15.10	6.13	65.0	1.038	4.0	1.63	Silty
1258	14.76	6.13	64.7	1.056	5.0	1.69	Silty
1259	14.66	6.13	71.2	1.015	6.0	1.84	Silty
1300	14.29	6.07	71.2	0.982	7.0	2.15	Silty
1301	13.80	6.04	61.7	0.937	10.0	2.20	Silty

MW-2s: Due to the historical presence of Separate Phase Liquid (SPL), MW-2 was purged utilizing hand bailing methods. A total of 6.0 gallons was extracted from the well. Strong odorous and visual indications of contamination were observed.

Table 3
Well Purging Data – MW-2s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
0821	17.24	6.32	-99.2	1.305	0.25	2.31	Clear
0825	14.76	6.49	-126.0	1.661	2.5	1.13	S. Silty
0826	14.32	6.36	-122.1	1.670	5.0	1.02	S. Silty
0828	14.02	6.38	-119.0	1.652	6.0	1.17	S. Silty
0830	13.92	6.33	-115.2	1.633	7.0	1.10	S. Silty
0833	13.89	6.32	-114.9	1.607	8.0	1.38	S. Silty
0834	13.89	6.32	-114.9	1.595	9.0	1.15	S. Silty
0836	13.88	6.33	-115.9	1.601	10.0	0.92	S. Silty

MW-3s: Due to the historical presence of Separate Phase Liquid (SPL), MW-3s was purged utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well. The well maintained a steady recharge throughout the completion of purging activities. Strong odorous and visual indications of contamination were observed.

Table 4
Well Purging Data – MW-3s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
0857	15.06	7.16	-149.7	1.268	0.25	2.82	V. Cloudy
0901	16.73	6.65	-144.4	1.284	2.5	0.91	V. Cloudy
0903	16.24	6.73	-155.2	1.273	5.0	0.73	V. Cloudy
0906	15.91	6.75	-157.9	1.263	6.0	1.02	V. Cloudy
0909	15.47	6.77	-160.7	1.266	7.0	0.87	V. Cloudy
0910	15.75	6.75	-155.6	1.262	8.0	1.03	V. Cloudy
0911	15.66	6.76	-154.7	1.252	9.0	1.07	V. Cloudy
0913	15.64	6.76	-157.3	1.265	10.0	0.88	V. Cloudy

MW-4s: MW-4s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 16.1. The well was purged and sampled at 220 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.5 gallons was extracted from the well. Strong odorous indications of contamination were observed.

Table 5
Well Purging Data – MW-4s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1523	17.53	7.30	-94	0.721	9.2	0.32	8.37'
1526	17.63	7.31	-100	0.711	6.6	0.31	8.37'
1529	17.85	7.31	-106	0.713	7.3	0.31	8.37'
1532	17.92	7.30	-110	0.717	1.0	0.31	8.37'
1535	17.99	7.30	-114	0.724	0.0	0.31	8.37'
1538	17.93	7.30	-117	0.731	0.0	0.30	8.37'
1541	17.92	7.30	-120	0.736	0.0	0.30	8.37'
1544	17.92	7.30	-123	0.742	0.0	0.30	8.37'

MW-5s: MW-5s is characterized as too turbid for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. The well maintained steady recharge throughout the duration of purging activities. A total of 10.0 gallons was extracted from the well. No odorous or visual indications of contamination was observed during purging activities.

Table 6
Well Purging Data – MW-5s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1216	17.07	6.81	94.2	0.422	0.25	2.40	Silty
1217	15.83	6.39	99.3	0.431	1.0	2.33	Silty
1218	15.47	6.11	103.9	0.442	2.0	2.35	Silty
1220	15.15	5.85	106.3	0.456	3.0	2.19	Silty
1221	14.76	5.72	108.7	0.481	4.0	2.32	Silty
1222	14.55	5.76	108.2	0.478	5.0	2.45	Silty
1223	14.20	5.66	107.3	0.469	6.0	2.71	Silty
1224	13.08	5.65	106.9	0.460	7.0	2.04	Silty
1225	13.42	5.63	106.6	0.483	8.0	2.14	Silty
1226	13.35	5.61	107.0	0.498	9.0	2.27	Silty
1227	13.39	5.62	105.2	0.525	10.0	2.36	Silty

MW-6s: MW-6s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and samples utilizing hand bailing method. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination was observed during purging activities.

Table 7
Well Purging Data – MW-6s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1333	17.85	6.05	33.0	2.272	0.25	1.18	Clear
1334	16.83	6.10	38.1	2.285	1.0	1.25	Silty
1335	16.39	6.15	39.9	2.235	2.0	1.51	Silty

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 20.2'. The well was purged and sampled at 340 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well.

Table 8
Well Purging Data – MW-7s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0943	16.57	7.25	159	0.869	0.0	4.84	12.73'
0946	16.67	7.25	154	0.873	0.0	4.75	12.73'
0949	16.74	7.24	149	0.988	0.0	4.64	12.74'
0952	16.76	7.24	145	0.987	0.0	4.55	12.74'
0955	16.80	7.24	141	0.986	0.0	4.48	12.74'

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 14.4'. The well was purged and sampled at 250 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. Please note this well was under artesian conditions at the time of the sampling event. Also, note that the man way was cracked due to road construction with debris inside well.

Table 9
Well Purging Data – MW-8s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1255	17.94	6.99	178	0.468	0.0	4.76	0.00'
1258	18.11	7.03	173	0.476	0.0	4.92	0.00'
1301	18.23	7.02	170	0.481	0.0	5.12	0.00'
1304	18.29	7.02	167	0.482	0.0	5.42	0.00'
1307	18.36	7.03	165	0.482	0.0	5.60	0.00'
1310	18.41	7.03	162	0.478	0.0	5.76	0.00'
1313	18.44	7.04	160	0.473	0.0	5.98	0.00'

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 30.6'. The well was purged and sampled at 210 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well.

Table 10
Well Purging Data – MW-9s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0820	15.17	7.15	214	0.955	0.0	4.75	22.31'
0823	15.26	7.15	212	0.953	0.0	4.63	22.32'
0826	15.39	7.15	209	0.951	0.0	4.57	22.32'
0829	15.45	7.15	207	0.947	0.0	4.50	22.32'
0832	15.53	7.15	205	0.947	0.0	4.50	22.32'
0835	15.71	7.16	203	0.947	0.0	4.45	22.32'
0838	15.69	7.16	200	0.944	0.0	4.51	22.32'
0841	15.74	7.16	198	0.947	0.0	4.50	22.32'

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.5'. The well was purged and sampled at 170 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well.

Table 11
Well Purging Data – MW-10s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1345	15.91	6.98	164	0.851	0.0	3.11	6.65'
1348	16.14	6.98	160	0.859	0.0	2.94	6.65'
1351	16.26	6.98	157	0.862	0.0	2.71	6.65'
1354	16.32	6.98	155	0.866	0.0	2.49	6.65'
1357	16.22	6.99	151	0.863	0.0	2.42	6.65'

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.5. The well was purged and sampled at 300 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.5 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

Table 12
Well Purging Data – MW-11s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1427	15.69	7.17	-34	0.447	0.0	0.35	1.24'
1430	15.65	7.15	-46	0.447	0.0	0.33	1.24'
1433	15.68	7.15	-52	0.446	0.0	0.32	1.24'
1436	15.66	7.14	-56	0.445	0.0	0.31	1.24'

MW-12s: MW-12s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well.

Table 13
Well Purging Data – MW-12s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
1510	19.19	6.94	68.1	0.290	0.25	3.33	Clear
1511	18.99	6.67	75.5	0.282	1.0	3.91	Silty
1512	18.95	6.34	80.9	0.280	2.0	3.53	Silty
1514	19.01	6.18	84.9	0.275	3.0	3.51	Silty
1516	18.95	6.10	86.3	0.274	5.0	4.33	Silty
1517	18.67	6.02	89.7	0.265	6.0	5.11	Silty
1519	18.41	5.97	92.9	0.265	7.0	5.51	Silty
1521	18.10	5.96	92.5	0.292	9.0	5.13	Very Silty
1522	17.66	5.93	90.0	0.362	10.0	4.50	Very Silty

MW-13s: MW-13s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination was observed during purging activities.

Table 14
Well Purging Data – MW-13s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1403	14.88	6.53	52.4	0.628	1.0	6.62	Clear
1404	14.46	6.30	62.6	0.496	2.0	6.42	Silty
1405	14.39	6.20	77.8	0.480	3.0	6.01	Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.5. The well was purged and sampled at 300 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination was observed during purging activities.

Table 15
Well Purging Data – MW-14s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1105	15.87	5.92	192	0.103	89.8	6.83	1.67'
1108	15.88	5.92	194	0.102	55.9	6.60	1.67'
1111	15.15	5.91	198	0.102	39.0	4.45	1.67'
1114	15.04	5.89	201	0.101	32.0	4.31	1.67'
1117	15.12	5.88	203	0.101	35.3	4.21	1.67'
1120	15.11	5.89	204	0.102	29.4	4.18	1.67'

MW-15s: MW-15s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well.

Table 16
Well Purging Data – MW-15s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1037	15.28	6.50	88.5	0.198	0.25	4.64	Silty
1039	14.67	6.14	89.5	0.299	1.0	5.42	Very Silty
1041	14.23	6.13	86.8	0.349	2.0	5.84	Very Silty
1044	14.00	6.16	84.7	0.392	3.0	6.43	Very Silty
1046	13.64	6.21	82.8	0.417	4.0	6.71	Very Silty
1047	13.39	6.26	82.1	0.430	5.0	6.86	Very Silty
1049	12.94	6.26	83.0	0.436	6.0	6.99	Very Silty
1052	12.25	6.24	84.5	0.402	8.0	6.75	Very Silty

MW-16s: MW-16s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well.

Table 17
Well Purging Data – MW-16s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1001	12.81	6.48	70.1	1.135	0.25	2.00	Clear
1003	11.79	6.53	68.5	0.926	1.0	4.32	Silty
1005	11.70	6.52	67.5	0.931	2.0	4.36	Very Silty

MW-17s: MW-17s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well.

Table 18
Well Purging Data – MW-17s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0915	13.43	6.96	71.3	0.573	0.25	6.90	Very Silty
0918	14.19	6.39	77.5	0.506	1.0	6.36	Very Silty
0919	14.15	6.22	77.1	0.790	2.0	6.21	Very Silty
0921	14.14	6.17	76.1	0.796	3.0	6.17	Very Silty
0923	14.04	6.14	75.1	0.808	4.0	6.14	Very Silty
0926	14.13	6.12	74.5	0.812	6.0	6.12	Very Silty
0928	13.97	6.20	71.9	0.837	7.0	6.21	Very Silty
0932	13.95	6.20	71.2	0.840	9.0	6.24	Very Silty
0934	13.89	6.20	71.3	0.847	10.0	6.24	Very Silty

MW-1d MW-1d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 20.0 gallons was extracted from the well.

Table 19
Well Purging Data – MW-1d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0955	11.32	7.51	-19.0	0.343	5.0	6.63	Cloudy
0957	11.20	7.30	-2.1	0.339	10.0	5.08	S. Cloudy
0959	11.07	7.13	10.3	0.259	15.0	7.11	Clear
1001	11.09	7.16	15.3	0.266	20.0	7.17	Clear

MW-2d: MW-2d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 118.0 gallons was extracted from the well.

Table 20
Well Purging Data – MW-2d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0808	13.25	7.23	-95.1	1.078	15.0	4.30	Silty
0809	13.27	6.54	-82.0	1.074	20.0	1.07	Silty
0813	13.76	6.49	-84.0	1.066	30.0	1.06	Silty
0816	13.06	6.50	-86.4	1.043	40.0	0.98	Silty
0818	12.75	6.51	-86.7	0.976	50.0	1.06	Silty
0820	13.35	6.52	-83.7	0.843	60.0	1.11	Silty
0822	12.89	6.63	-84.0	0.712	70.0	0.75	Silty
0824	12.75	6.67	-82.8	0.658	80.0	0.91	Silty
0826	13.14	6.73	-82.5	0.648	90.0	0.80	Silty
0828	13.52	6.74	-82.5	0.657	100.0	0.93	Silty
0829	13.43	6.76	-80.7	0.680	110.0	1.43	Silty

MW-6d: MW-6d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 36.0 gallons was extracted from the well.

Table 21
Well Purging Data – MW-6d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
1033	12.13	7.52	-11.3	0.576	10.0	3.93	S. Cloudy
1035	11.89	7.16	-5.9	0.500	20.0	2.86	Clear
1037	11.96	7.01	-4.0	0.490	30.0	2.54	Clear

MW-7d: MW-7d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 57.0 gallons was extracted from the well.

Table 22
Well Purging Data – MW-7d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0848	--	--	--	--	--	--	Pump On
0851	12.70	7.33	-119.8	2.172	10.0	0.87	Silty
0853	12.60	7.42	-167.8	1.615	20.0	0.92	Silty
0855	12.61	7.40	-177.0	1.489	30.0	0.93	Silty
0856	12.73	7.44	-193.1	1.470	40.0	0.67	Silty
0858	12.84	8.02	-192.7	1.432	50.0	0.88	Silty

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 90.0'. The well was purged and sampled at 250 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well.

Table 23
Well Purging Data – MW-8d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0805	14.81	7.27	154	0.317	28.3	2.78	67.70'
0808	14.92	7.25	149	0.318	23.8	2.76	67.70'
0812	15.09	7.23	145	0.320	17.0	2.70	67.70'
0814	15.00	7.22	139	0.319	19.1	2.68	67.70'
0817	15.19	7.21	134	0.321	13.7	2.61	67.70'
0820	15.25	7.21	128	0.321	11.9	2.59	67.70'
0823	15.23	7.20	125	0.320	11.3	2.52	67.70'
0826	15.22	7.20	123	0.320	12.7	2.49	67.70'

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 380 ml / min. A total of 5.0 gallons was extracted from the well.

Table 24
Well Purging Data – MW-9d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0919	12.55	7.16	129	0.323	40.4	1.64	67.35'
0922	12.58	7.16	125	0.301	48.0	1.95	67.30'
0925	12.56	7.15	123	0.304	56.8	1.92	67.28'
0928	12.69	7.14	120	0.298	47.8	2.01	67.25'
0931	12.63	7.16	117	0.280	58.2	2.29	67.23'
0934	12.57	7.13	116	0.292	75.8	2.11	67.23'
0937	12.58	7.13	114	0.292	91.5	2.14	67.23'
0940	12.54	7.12	113	0.294	97.8	2.12	67.23'

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 176.0'. The well was purged and sampled at 150 ml / min. A total of 3.5 gallons was extracted from the well.

Table 25
Well Purging Data – MW-10d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1147	11.99	7.27	81	0.436	0.0	0.47	71.75'
1150	12.60	7.24	77	0.443	0.0	0.48	71.85'
1153	12.73	7.25	71	0.445	0.0	0.49	71.92'
1156	12.70	7.25	67	0.444	0.0	0.50	71.92'
1159	12.69	7.25	63	0.444	0.0	0.50	71.92'
1202	12.51	7.24	60	0.441	0.0	0.50	71.92'
1205	12.45	7.24	57	0.441	0.0	0.48	71.92'
1208	12.52	7.24	54	0.442	0.0	0.47	71.92'

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 350 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 6.0 gallons was extracted from the well.

Table 26
Well Purging Data – MW-11d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1339	14.26	7.52	54	0.311	0.0	0.85	68.65'
1342	14.02	7.51	51	0.309	0.0	0.81	68.65'
1345	14.03	7.51	48	0.310	0.0	0.78	68.65'
1348	14.06	7.50	46	0.309	0.0	0.75	68.65'
1351	13.99	7.49	44	0.309	0.0	0.73	68.66'
1354	14.06	7.49	43	0.309	0.0	0.71	68.68'
1357	14.11	7.50	40	0.309	0.0	0.69	68.70'
1400	14.17	7.48	39	0.309	0.0	0.68	68.70'
1403	14.16	7.48	38	0.310	0.0	0.67	68.70'
1406	14.25	7.48	37	0.310	0.0	0.65	68.70'

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.5'. The well was purged and sampled at 230 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 4.0 gallons was extracted from the well.

Table 27
Well Purging Data – MW-12d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1459	12.83	7.49	20	0.452	80.9	0.56	60.09'
1502	12.82	7.49	15	0.452	70.5	0.54	60.15'
1505	12.86	7.48	11	0.452	72.0	0.52	60.25'
1508	12.84	7.48	8	0.452	50.0	0.50	60.31'
1511	12.92	7.48	5	0.454	56.6	0.49	60.33'
1514	12.92	7.48	4	0.453	49.2	0.50	60.33'
1517	12.91	7.47	3	0.453	45.1	0.50	60.33'
1520	12.89	7.47	2	0.453	48.0	0.49	60.33'

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 400 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 4.0 gallons was extracted from the well.

Table 28
Well Purging Data – MW-13d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1035	12.61	7.51	22	0.330	33.2	0.48	44.86'
1038	12.64	7.50	18	0.330	24.2	0.46	44.84'
1041	12.58	7.49	15	0.329	13.7	0.45	44.82'
1044	12.48	7.48	14	0.328	4.0	0.45	44.80'
1047	12.34	7.47	12	0.327	2.0	0.45	44.79'
1050	12.42	7.47	11	0.327	0.0	0.44	44.79'
1053	12.44	7.46	11	0.328	0.0	0.45	44.79'

OW-4: A total of 13.0 gallons was purged from OW-4. No odorous or visual indications of contamination were observed during the purging activities, good recharge. A total of 13.0 gallons was extracted from the well.

Table 29
Well Purging Data – OW-4

Time	Temp (°C)	PH (SU)	ORP (mV)	Conductivity mS/cm	Gallons Purged	D.O. (mg/L)	Comments
1443	18.36	6.50	64.1	0.440	1.0	1.48	Clear
1444	18.06	6.73	55.4	0.448	2.0	1.26	Silty
1445	18.05	6.94	47.0	0.449	3.0	1.11	Silty
1446	18.01	7.02	44.7	0.448	6.0	1.07	Silty
1449	17.83	7.09	42.6	0.452	9.0	1.00	Silty
1450	17.75	7.13	42.1	0.453	11.0	0.93	Silty
1451	17.70	7.15	41.5	0.453	13.0	0.86	Silty

Table 30
Final Sample Data Summary

Location	pH (SU)	Temp (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth
MW-1s	5.95	14.75	0.884	2.35	4.0	12.65'
MW-2s	6.33	13.89	1.604	0.86	-116.6	11.68'
MW-3s	6.77	15.03	1.314	0.66	-159.6	11.38'
MW-5s	5.77	13.60	0.441	1.37	94.4	12.30'
MW-6s	6.29	17.40	2.172	1.04	52.3	9.70'
MW-12s	6.10	18.03	0.452	3.51	84.9	4.11'
MW-13s	6.13	14.53	0.483	7.40	78.8	16.86'
MW-15s	6.54	13.75	0.443	4.61	68.9	14.75'
MW-16s	6.67	11.80	0.973	6.68	57.4	35.50'
MW-17s	6.20	13.88	0.856	3.74	70.7	16.20'
MW-1d	7.85	12.16	0.347	9.36	61.2	60.70'
MW-2d	6.95	12.46	0.911	9.11	26.0	70.78'
MW-6d	7.63	11.68	0.427	5.13	64.9	69.10'
MW-7d	--	--	--	--	--	59.31'
OW-4	7.18	17.95	0.452	1.08	42.0	0.68'
SW-1	6.58	17.61	0.130	6.11	57.8	Clear
SW-2	6.87	17.63	0.139	7.81	49.5	Clear
SW-3	7.47	17.66	0.141	8.14	41.4	Clear

Table 31
Final Sample Data Summary

Well #	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Sample Depth (Feet)
MW-4s	17.92	7.30	-123	0.742	0.0	0.30	16.1
MW-7s	16.80	7.24	141	0.986	0.0	4.48	20.2
MW-8s	18.44	7.04	160	0.473	0.0	5.98	14.4
MW-9s	15.74	7.16	198	0.947	0.0	4.50	30.6
MW-10s	16.22	6.99	151	0.863	0.0	2.42	12.5
MW-11s	15.66	7.14	-56	0.445	0.0	0.31	12.5
MW-14s	15.11	5.89	204	0.102	29.4	4.18	11.5
MW-8d	15.22	7.20	123	0.320	12.7	2.49	90.0
MW-9d	12.54	7.12	113	0.294	97.8	2.12	162.0
MW-10d	12.52	7.24	54	0.442	0.0	0.47	176.0
MW-11d	14.25	7.48	37	0.310	0.0	0.65	118.0
MW-12d	12.89	7.47	2	0.453	48.0	0.49	191.5
MW-13d	12.44	7.46	11	0.328	0.0	0.45	172.0

**Table 32
Metals Data Summary**

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)
MW-1s	5.4	0.04	21	0.9
MW-2s	--	--	--	--
MW-3s	--	--	--	--
MW-4s	4.7	0.52	5	1.3
MW-5s	0.8	0.09	29	0.0
MW-6s	8.9	0.07	25	0.9
MW-7s	0.0	0.01	13	1.8
MW-8s	0.0	0.02	27	0.2
MW-9s	0.2	0.00	51	2.0
MW-10s	0.0	0.00	4	1.1
MW-11s	6.1	1.27	1	6.5
MW-12s	0.2	0.01	27	0.7
MW-13s	0.0	0.01	21	3.9
MW-14s	0.0	0.16	4	0.0
MW-15s	--	--	--	--
MW-16s	0.8	0.03	30	1.1
MW-17s	--	--	--	--
MW-1d	--	--	--	--
MW-2d	--	--	--	--
MW-6d	--	--	--	--
MW-7d	--	--	--	--
MW-8d	0.4	0.05	17	0.0
MW-9d	0.0	0.00	9	0.0
MW-10d	0.0	0.03	18	0.2
MW-11d	0.3	0.00	5	1.6
MW-12d	0.1	0.00	13	0.0
MW-13d	0.0	0.02	8	0.1
OW-1	--	--	--	--
OW-2	--	--	--	--
OW-3	--	--	--	--
OW-4	--	--	--	--

Table 33
Final Sample Data Summary

Well #	Date	Time
MW-1s	09/26/11	1315
MW-2s	09/27/11	0838
MW-3s	09/27/11	0915
MW-4s	09/28/11	1546
MW-5s	09/26/11	1234
MW-6s	09/26/11	1350
MW-7s	09/28/11	0957
MW-8s	09/28/11	1316
MW-9s	09/26/11	0843
MW-10s	09/28/11	1400
MW-11s	09/28/11	1438
MW-12s	09/26/11	1528
MW-13s	09/26/11	1425
MW-14s	09/28/11	1122
MW-15s	09/26/11	1115
MW-16s	09/26/11	1025
MW-17s	09/26/11	0940
MW-1d	09/28/11	0950
MW-2d	09/28/11	1020
MW-6d	09/28/11	1005
MW-7d	09/28/11	1526
MW-8d	09/27/11	0829
MW-9d	09/27/11	0943
MW-10d	09/27/11	1210
MW-11d	09/27/11	1409
MW-12d	09/27/11	1523
MW-13d	09/27/11	1055
SW1	09/27/11	0812
SW2	09/27/11	0809
SW3	09/27/11	0803
FB1	09/26/11	1550
FB2	09/27/11	1550
FB3	09/28/11	1605
OW-1	NS	NS
OW-2	NS	NS
OW-3	NS	NS
OW-4	09/26/11	1455

NS= Not Sampled

Staff Gauge #	Height
SG-1	0.54
SG-2	0.46

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL PURGING RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Ms. Ruth Lewis

Date: August 31, 2011

GENERAL WELL INFORMATION

Well No.	S.W.L. (TOC)*	Total Depth (TOC)	Amount Purged (Gallon)
MW-14s	3.02'	19.85'	55.0
MW-15s	2.80'	19.13'	13.5
MW-16s	32.92'	37.67'	2.5
MW-17s	16.43'	29.20'	50.0

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL DEVELOPMENT RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Ms. Ruth Lewis

Date: August 31, 2011

Well No.	Time	pH	Temp °C	Conductivity uS/cm	DO mg/l	ORP mV	Gallons Purged
MW-14s	1025	--	--	--	--	--	--
	1035	--	--	--	--	--	--
	1046	7.08	15.8	0.327	--	--	10.0
	1048	6.88	14.7	0.290	--	--	12.5
	1050	6.82	14.3	0.349	--	--	15.0
	1052	7.13	13.6	0.384	--	--	17.5
	1054	7.44	12.9	0.416	--	--	20.0
	1140	6.60	15.5	190.9	--	--	22.5
	1141	6.41	15.6	0.201	--	--	25.0
	1143	6.34	15.2	194.6	--	--	27.5
	1145	6.21	14.5	168.7	--	--	30.0
	1147	6.33	14.3	0.197	--	--	32.5
	1149	6.86	13.8	0.286	--	--	35.0
	1152	7.37	13.0	0.377	--	--	37.5
	1154	7.57	13.5	0.285	--	--	40.0
	1156	--	--	--	--	--	--
	1214	6.15	14.7	148.8	--	--	42.5
	1218	6.12	14.2	156.0	--	--	47.5
	1221	6.33	13.8	194.9	--	--	50.0
	1223	6.98	13.1	0.321	--	--	52.5
	1227	7.32	13.6	0.218	--	--	55.0
					--	--	
*MW-15s	1340	--	--	--	--	--	--
	1353	--	--	--	--	--	5.0
	1355	--	--	--	--	--	--
	1358	7.27	14.5	0.431	--	--	7.5
	1359	7.33	13.4	0.469	--	--	10.0
	1401	7.42	12.4	0.520	--	--	12.5
	1417	--	--	--	--	--	13.5
*MW-16s	1030	--	--	--	--	--	--
	1100	--	--	--	--	--	2.0
	--	--	--	--	--	--	--
	1200	--	--	--	--	--	2.5

MW-14s – Surged with Q-Water Well Developer and hand bailed. Evacuated at 40.0 gallons and allowed to recharge. Nearly evacuated at 55.0 gallons

MW-15s – Surged with Q-Water Well Developer and hand bailed. Evacuated at 12.5 gallons and allowed to recharge. Evacuated at 13.5 gallons.

MW-16s – Surged with Q-Water Well Developer and hand bailed. Evacuated at 2.0 gallons and allowed to recharge. Evacuated at 2.5 gallons

PENNSYLVANIA TECTONICS, INCORPORATED

GROUNDWATER MONITORING WELL PURGING RECORD

Client: Lewis Brothers

Job No.: 27058

Contact: Ms. Ruth Lewis

Date: August 31, 2011

Well No.	Time	pH	Temp °C	Conductivity uS/cm	DO mg/l	ORP mV	Gallons Purged
MW-17s	0805	--	--	--	--	--	--
	0826	--	--	--	--	--	--
	0838	6.68	13.3	0.846	--	--	7.5
	0841	6.66	13.2	0.866	--	--	10.0
	0847	6.70	13.3	0.902	--	--	12.5
	0849	6.70	13.1	0.882	--	--	15.0
	0856	6.73	13.0	0.895	--	--	17.5
	0858	6.74	13.2	0.890	--	--	20.0
	0916	6.77	13.6	0.892	--	--	22.5
	0919	6.80	13.3	0.910	--	--	25.0
	0921	6.82	13.2	0.917	--	--	27.5
	0924	6.80	13.2	0.911	--	--	30.0
	0926	6.82	13.2	0.914	--	--	32.5
	0929	6.83	13.2	0.908	--	--	35.0
	0931	6.85	13.2	0.910	--	--	37.5
	0934	6.86	13.2	0.910	--	--	40.0
	0936	6.86	13.0	0.909	--	--	42.5
	0938	6.85	13.1	0.909	--	--	45.0
	0941	6.85	13.1	0.915	--	--	47.5
	0943	6.86	13.1	0.916	--	--	50.0

MW-17s – Surged with Q-Water Well Developer and hand bailed. Good recharge.

Field Notes

TO: File

FROM: Ray Hanley

DATE: November 9 - 11, 2011

PROJECT: Lewis Brothers Garage Property

PROJECT NUMBER: 27058

SUBJECT: Groundwater Sampling Activities

0650: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations wells located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater-monitoring wells and one (1) of the four (4) observations wells. The general well information is as follows:

**Table 1
General Well Information**

Well #	SWL (Feet)	TD (Feet)	Depth (Feet)	Rate (L/min)	Purged (Gallons)
MW-1s	9.87	21.95	2.0*	6.0*	6.00
MW-2s	11.77	29.60	2.9*	8.7*	9.00
MW-3s	10.54	28.00	2.9*	8.7*	9.00
MW-4s	7.69	24.90	2.8*	8.4*	10.00
MW-5s	8.32	21.31	2.2*	6.6*	7.00
MW-6s	5.97	15.20	1.54	4.6	5.00
MW-7s	12.92	27.51	20.2	0.33	2.00
MW-8s	6.43	23.52	15.0	0.26	4.00
MW-9s	21.92	39.10	30.5	0.28	2.50
MW-10s	6.43	18.53	12.5	0.15	2.50
MW-11s	1.65	23.54	12.6	0.25	3.00
MW-12s	4.38	19.97	2.6*	7.8*	8.00
MW-13s	15.25	18.18	0.5*	1.5*	1.50
MW-14s	6.71	19.85	13.3	0.31	5.00
MW-15s	3.51	19.13	2.6*	7.8*	8.00
MW-16s	32.76	37.67	0.8*	2.4*	1.50
MW-17s	15.46	29.20	22.3	0.35	4.00
MW-1d	41.65	68.60	39.6*	118.8*	43.00
MW-2d	11.28	78.70	99.1*	297.3*	112.00
MW-6d	54.37	85.20	45.3*	135.9*	47.00
MW-7d	28.78	60.40	46.5*	139.5*	53.00
MW-8d	66.12	100.00	90.0	0.35	4.00
MW-9d	66.44	172.00	162.0	0.46	4.00
MW-10d	69.61	186.00	176.0	0.15	2.50
MW-11d	69.23	128.00	118.0	0.41	4.00
MW-12d	61.07	201.00	191.0	0.37	3.00
MW-13d	45.49	182.00	172.0	0.37	3.50
OW-1	3.13	11.58	NS	NS	NS
OW-2	2.40	10.98	NS	NS	NS
OW-3	2.22	10.92	NS	NS	NS
OW-4	1.59	9.95	5.4*	17.0*	17.00

*=1vol/3vol NS= Not Sampled

MW-1s: Due to insufficient recharge for low flow / low stress sampling methods, MW-1s was purged and sampled utilizing hand bailing methods. A total of 6.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 2
Well Purging Data – MW-1s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0930	13.86	6.41	54.0	0.914	0.25	1.60	Very Silty
0931	13.84	6.32	55.8	0.911	1.00	1.71	Very Silty
0932	13.97	6.27	59.5	0.946	2.00	1.64	Very Silty
0933	13.96	6.27	60.0	0.983	3.00	1.60	Very Silty
0934	13.96	6.27	60.5	1.054	4.00	1.72	Very Silty
0935	13.93	6.29	61.0	1.086	5.00	2.00	Very Silty
0936	13.93	6.31	61.8	1.057	6.00	2.03	Very Silty

MW-2s: Due to the historical presence of Separate Phase Liquid (SPL), MW-2 was purged utilizing hand bailing methods. A total of 9.0 gallons was extracted from the well after the removal of all SPL. Strong odorous and visual indications of contamination were observed.

Table 3
Well Purging Data – MW-2s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1016	15.85	6.68	-135.2	1.538	0.25	0.77	Clear
1018	15.63	6.68	-135.6	1.645	1.00	0.93	Clear
1019	15.19	6.67	-139.2	1.692	2.00	0.80	Clear
1021	14.53	6.69	-141.3	1.685	3.00	0.89	Clear
1022	14.30	6.71	-141.2	1.689	4.00	0.89	Clear
1023	14.18	6.71	-137.6	1.678	5.00	0.80	Clear
1025	14.08	6.70	-136.3	1.672	6.00	0.90	Clear
1026	14.07	6.70	-133.9	1.662	7.00	0.87	Clear
1028	14.03	6.70	-134.2	1.653	8.00	0.81	Clear
1030	14.12	6.70	-135.1	1.644	9.00	0.74	Clear

MW-3s: Due to the historical presence of Separate Phase Liquid (SPL), MW-3s was purged utilizing hand bailing methods. A total of 9.0 gallons was extracted from the well after the removal of all SPL. The well maintained a steady recharge throughout the completion of purging activities. Strong odorous and visual indications of contamination were observed.

Table 4
Well Purging Data – MW-3s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0948	15.56	6.62	-130.6	1.016	0.25	1.86	Clear
0950	15.71	6.70	-139.2	1.104	1.00	1.22	Clear
0952	15.41	6.77	-145.5	1.094	2.00	1.08	S. Cloudy
0953	15.22	6.75	-141.7	1.238	3.00	0.91	S. Cloudy
0954	15.16	6.76	-136.6	1.296	4.00	1.01	S. Cloudy
0956	15.14	6.77	-138.3	1.328	5.00	0.82	S. Cloudy
0958	15.06	6.80	-140.7	1.320	6.00	0.75	S. Cloudy
1000	15.16	6.81	-139.7	1.321	7.00	0.88	S. Cloudy
1002	15.00	6.83	-141.3	1.325	8.00	0.75	S. Cloudy
1004	14.93	6.83	-140.9	1.331	9.00	0.80	S. Cloudy

MW-4s: MW-4s was purged and sampled utilizing hand bailing methods. The well maintained steady recharge throughout the duration of purging activities. A total of 10.0 gallons was extracted from the well. Strong odorous indications of contamination were observed.

Table 5
Well Purging Data – MW-4s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1108	14.57	6.44	-113.5	0.819	0.25	1.01	Silty
1110	14.69	6.78	-149.7	0.681	1.00	1.46	Silty
1112	14.64	6.86	-154.6	0.711	2.00	1.21	Silty
1114	14.50	6.89	-156.9	0.753	3.00	1.33	Silty
1116	14.53	6.91	-158.1	0.738	4.00	1.35	Silty
1118	14.55	6.94	-162.0	0.769	5.00	1.29	Silty
1120	14.05	6.96	-162.8	0.819	6.00	1.11	Silty
1122	14.44	6.96	-159.9	0.808	7.00	1.70	Silty
1124	14.58	6.99	-156.9	0.803	8.00	2.53	Silty
1126	14.38	7.01	-159.9	0.836	9.00	2.42	Silty
1128	14.41	7.00	-156.0	0.837	10.00	2.93	Silty

MW-5s: MW-5s is characterized as too turbid for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. The well maintained steady recharge throughout the duration of purging activities. A total of 7.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 6
Well Purging Data – MW-5s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1043	13.77	6.97	-82.3	0.530	0.50	1.77	Silty
1045	13.69	6.39	-28.7	0.493	1.00	2.22	Silty
1047	13.71	6.22	-17.2	0.497	3.00	1.73	Silty
1049	13.62	6.17	-11.1	0.501	4.00	2.33	Silty
1051	13.61	6.15	-7.9	0.504	5.00	2.41	Silty
1053	13.59	6.14	-4.1	0.505	6.00	2.03	Silty
1055	13.58	6.14	-1.1	0.503	7.00	2.43	Silty

MW-6s: MW-6s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and samples utilizing hand bailing method. A total of 5.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 7
Well Purging Data – MW-6s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0903	15.07	6.25	52.2	2.424	0.25	3.78	Silty
0904	15.12	6.10	49.7	2.408	1.00	2.61	Silty
0905	15.12	6.18	53.2	2.262	2.00	3.40	Silty
0907	14.99	6.28	59.6	2.251	3.00	3.18	Silty
0911	15.11	6.32	59.9	2.218	4.00	3.05	Silty
0915	15.14	6.34	60.4	2.210	5.00	2.86	Silty

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 20.2'. The well was purged and sampled at 330 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 8
Well Purging Data – MW-7s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0900	15.31	7.18	189	0.990	4.2	4.68	12.96
0903	15.54	7.17	187	0.996	19.5	4.60	12.96
0906	15.67	7.16	185	0.956	15.9	4.54	12.96
0909	15.75	7.16	183	0.958	11.5	4.38	12.96
0912	15.78	7.15	181	0.960	6.6	4.28	12.96
0915	15.77	7.14	179	0.961	6.0	4.19	12.96

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.0'. The well was purged and sampled at 260 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities. Also, note that the man way was cracked due to road construction with debris inside well.

Table 9
Well Purging Data – MW-8s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1258	13.36	6.96	206	0.761	5.7	2.67	5.43
1301	13.44	6.97	205	0.764	3.4	2.60	5.46
1304	13.45	6.97	204	0.764	3.3	2.57	5.47
1307	13.48	6.98	203	0.765	3.9	2.55	5.47
1310	13.42	6.98	201	0.764	4.0	2.51	5.47
1313	13.41	6.98	200	0.767	3.4	2.45	5.47
1316	13.40	6.98	199	0.770	2.9	2.37	5.47
1319	13.42	6.98	198	0.771	2.7	2.17	5.47
1322	13.35	6.98	197	0.772	1.1	1.92	5.47
1325	13.40	6.98	196	0.775	1.0	1.78	5.47

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 30.5'. The well was purged and sampled at 280 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visuals of contamination were observed throughout purging activities.

Table 10
Well Purging Data – MW-9s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0815	14.03	7.24	203	0.909	0.0	4.88	22.13
0818	14.12	7.23	200	0.908	0.0	4.79	22.14
0821	14.21	7.22	197	0.908	0.0	4.73	23.14
0824	14.29	7.22	195	0.906	0.0	4.71	23.14
0827	14.31	7.21	192	0.902	0.0	4.68	23.14
0830	14.30	7.21	190	0.900	0.0	4.66	23.14

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.5'. The well was purged and sampled at 150 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visuals of contamination were observed throughout purging activities.

**Table 11
Well Purging Data – MW-10s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1424	12.84	6.76	209	0.824	0.0	4.48	6.91
1427	12.83	6.75	209	0.823	0.0	4.45	6.93
1430	12.88	6.78	207	0.829	0.0	3.72	6.97
1433	12.90	6.80	206	0.831	0.0	3.31	7.00
1436	12.88	6.83	204	0.832	0.0	3.03	7.01
1439	12.84	6.84	203	0.833	0.0	2.79	7.01
1442	12.82	6.86	201	0.834	0.0	2.57	7.01
1445	12.84	6.87	200	0.836	0.0	2.45	7.01
1448	12.80	6.87	199	0.836	0.0	2.50	7.01

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.6'. The well was purged and sampled at 250 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

**Table 12
Well Purging Data – MW-11s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1529	11.35	7.08	10	0.487	13.4	0.42	1.70
1532	11.41	7.07	0	0.489	9.7	0.41	1.70
1535	11.41	7.06	-7	0.490	8.0	0.41	1.70
1538	11.39	7.06	-12	0.489	7.4	0.41	1.70
1541	11.29	7.06	-16	0.490	7.5	0.40	1.70
1544	11.11	7.06	-20	0.487	7.1	0.40	1.70
1547	11.32	7.06	-22	0.486	6.9	0.39	1.70
1550	11.31	7.06	-25	0.486	6.9	0.39	1.70

MW-12s: MW-12s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

**Table 13
Well Purging Data – MW-12s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1141	13.82	6.70	77.6	0.607	3.00	2.35	Silty
1144	13.96	6.64	65.5	0.629	4.00	2.77	Silty
1147	13.94	6.62	62.9	0.634	5.00	3.13	Silty
1150	13.69	6.59	58.4	0.684	6.00	3.56	Silty
1153	13.37	6.61	53.4	0.727	7.00	3.89	Silty
1159	13.30	6.62	46.1	0.758	8.00	4.65	Silty

MW-13s: MW-13s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 1.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 14
Well Purging Data – MW-13s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1310	14.36	7.22	70.6	0.445	0.25	8.19	Silty
1312	14.08	6.84	68.4	0.447	0.50	7.21	Silty
1314	13.87	6.46	68.8	0.445	1.00	6.43	Silty
1316	13.78	6.40	70.7	0.437	1.25	6.36	Silty
1318	13.69	6.22	71.6	0.424	1.50	5.89	Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.3. The well was purged and sampled at 310 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 5.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 15
Well Purging Data – MW-14s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1158	13.65	6.06	227	0.142	148.0	3.32	7.75
1201	13.66	6.05	229	0.138	92.7	3.34	7.75
1204	13.66	6.02	230	0.134	50.0	3.36	7.75
1207	13.65	6.00	231	0.131	30.9	3.39	7.75
1210	13.64	5.99	232	0.130	17.4	3.39	7.75

MW-15s: MW-15s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 16
Well Purging Data – MW-15s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1540	11.77	6.86	45.4	0.276	0.25	5.91	Silty
1542	11.79	6.65	55.1	0.289	1.00	5.45	Silty
1543	11.83	6.47	60.0	0.294	2.00	5.20	Silty
1544	11.81	6.37	62.7	0.313	3.00	5.27	Silty
1545	11.82	6.33	62.8	0.336	4.00	5.31	Silty
1546	11.89	6.31	62.7	0.362	5.00	5.32	Silty
1547	11.89	6.33	61.3	0.367	6.00	5.40	Silty
1548	11.92	6.35	59.3	0.392	7.00	5.32	Silty
1549	11.92	6.36	55.4	0.393	8.00	5.23	Silty

MW-16s: MW-16s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 1.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 17
Well Purging Data – MW-16s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1518	11.90	6.96	20.4	1.086	0.25	3.11	Clear
1520	11.35	6.84	29.4	1.043	0.50	2.87	Silty
1521	11.22	6.82	31.9	0.994	0.75	2.99	Silty
1522	11.11	6.81	33.4	0.888	1.00	3.17	Silty
1525	10.98	6.71	37.2	1.004	1.25	2.77	Silty
1527	10.83	6.75	36.8	1.030	1.50	2.45	Silty

MW-17s: MW-17s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 22.3'. The well was purged and sampled at 350 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 18
Well Purging Data – MW-17s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1000	14.66	6.36	208	0.637	71.0	1.09	15.61
1003	14.71	6.37	207	0.641	61.1	1.18	15.61
1006	14.68	6.37	207	0.643	49.9	1.26	15.61
1009	14.74	6.39	206	0.649	59.4	1.37	15.61
1012	14.67	6.39	206	0.651	48.8	1.42	15.61
1015	14.70	6.41	205	0.657	32.6	1.54	15.61

MW-1d: MW-1d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 40.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 19
Well Purging Data – MW-1d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0758	11.36	7.20	54.7	0.357	1.00	6.17	Silty
0759	10.97	7.17	60.7	0.355	5.00	5.06	Silty
0800	11.41	7.12	63.5	0.355	20.00	4.26	Silty
0801	11.30	7.14	62.3	0.354	25.00	3.83	S. Cloudy
0802	11.34	7.17	62.0	0.353	30.00	3.82	Clear
0804	11.44	7.25	61.7	0.352	35.00	3.73	Clear
0806	11.52	7.31	61.4	0.352	40.00	3.66	Clear

MW-2d: MW-2d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 112.0 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

Table 20
Well Purging Data – MW-2d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1035	11.25	6.93	-91.7	1.118	20.00	1.83	Clear
1040	11.65	6.79	-94.8	1.116	30.00	0.91	Clear
1043	11.89	6.76	-100.4	1.104	40.00	0.78	Clear
1046	12.12	6.77	-107.5	1.064	50.00	0.91	Clear
1048	12.20	6.82	-122.7	0.937	60.00	0.63	Clear
1051	12.54	6.88	-133.5	0.838	70.00	0.96	Clear
1053	12.86	6.92	-142.8	0.794	80.00	0.79	Clear
1056	13.18	6.96	-152.5	0.756	90.00	0.49	Clear
1058	13.65	7.01	-150.4	0.723	100.00	0.38	Clear
1100	13.35	6.96	-123.2	0.769	110.00	1.22	Clear

MW-6d: MW-6d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 47.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 21
Well Purging Data – MW-6d**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
0842	12.15	7.26	82.5	0.513	5.00	3.30	S. Cloudy
0845	11.63	7.29	78.3	0.477	10.00	3.80	Clear
0847	12.03	7.33	78.1	0.469	15.00	3.95	Clear
0849	12.40	7.30	74.2	0.469	20.00	3.74	Clear
0852	11.87	7.23	74.9	0.469	25.00	3.87	Clear
0855	11.80	7.22	73.4	0.468	30.00	3.95	Clear
0857	11.86	7.20	73.7	0.467	35.00	3.94	Clear
0858	12.01	7.22	71.6	0.466	40.00	3.80	Clear
0903	11.80	7.22	70.2	0.468	45.00	3.94	Clear

MW-7d: MW-7d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 53.0 gallons was extracted from the well. Slight odorous indications of contamination were observed during purging activities.

**Table 22
Well Purging Data – MW-7d**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0942	11.82	7.03	-83.1	1.239	20.00	0.98	Clear
0947	12.24	7.01	-116.7	1.210	25.00	0.74	Clear
0949	12.41	7.05	-140.3	1.207	30.00	0.85	Clear
0950	12.45	7.11	-160.3	1.218	35.00	0.72	Clear
0952	12.71	7.15	-174.8	1.221	40.00	0.65	Clear
0957	12.83	7.44	-223.6	1.229	45.00	0.52	S. Cloudy
0958	12.75	7.77	-203.2	1.217	50.00	0.49	S. Cloudy

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 90.0'. The well was purged and sampled at 350 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 23
Well Purging Data – MW-8d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0854	13.12	7.34	186	0.377	27.2	0.61	67.35
0857	13.19	7.34	180	0.378	31.4	0.60	67.35
0900	13.28	7.34	174	0.378	35.8	0.58	67.36
0903	13.26	7.34	167	0.379	28.3	0.57	67.35
0906	13.33	7.34	159	0.379	21.3	0.55	67.35
0909	13.40	7.33	150	0.380	18.6	0.54	67.35
0912	13.48	7.33	141	0.380	17.5	0.53	67.35
0915	13.55	7.33	133	0.379	14.1	0.51	67.35
0918	13.55	7.33	126	0.379	14.3	0.51	67.35

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 460 ml / min. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 24
Well Purging Data – MW-9d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0745	10.60	7.47	207	0.369	29.3	1.56	66.66
0748	10.72	7.37	208	0.362	13.4	1.18	66.66
0751	10.90	7.30	208	0.356	5.4	0.99	66.66
0754	11.06	7.26	207	0.351	2.8	0.91	66.66
0757	11.01	7.24	205	0.345	0.8	0.88	66.66
0800	11.05	7.21	204	0.343	0.0	0.81	66.66
0803	11.15	7.20	202	0.342	0.0	0.79	66.66
0806	11.19	7.19	201	0.340	0.4	0.77	66.66
0809	11.19	7.19	199	0.337	0.0	0.77	66.66

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 176.0'. The well was purged and sampled at 150 ml / min. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 25
Well Purging Data – MW-10d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1247	12.67	7.22	151	0.452	0.0	0.62	71.36
1250	12.70	7.21	148	0.453	0.0	0.59	71.52
1253	12.69	7.21	145	0.452	0.0	0.57	71.70
1256	12.72	7.21	142	0.452	0.0	0.56	71.85
1259	12.72	7.20	140	0.452	0.0	0.55	71.85
1302	12.66	7.20	137	0.452	0.0	0.54	71.85

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 410 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 26
Well Purging Data – MW-11d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1338	12.18	7.60	81	0.343	0.0	0.57	69.65
1341	12.24	7.59	70	0.341	0.0	0.63	69.65
1344	12.26	7.58	63	0.341	0.0	0.72	69.65
1347	12.32	7.57	61	0.338	0.0	0.85	69.65
1350	12.36	7.56	60	0.339	0.0	0.94	69.65
1353	12.41	7.54	62	0.337	0.0	1.01	69.65
1356	12.44	7.53	64	0.335	0.0	1.07	69.65
1359	12.46	7.53	67	0.336	0.0	1.11	69.65

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 27
Well Purging Data – MW-12d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1116	12.32	7.39	141	0.474	7.8	0.69	61.53
1119	12.33	7.38	137	0.476	3.0	0.65	61.52
1122	12.31	7.37	133	0.476	2.3	0.62	61.51
1125	12.32	7.35	130	0.478	2.5	0.59	61.51
1128	12.33	7.35	126	0.478	0.0	0.57	61.51
1131	12.28	7.35	122	0.477	0.0	0.55	61.51

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 28
Well Purging Data – MW-13d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0957	11.11	7.62	118	0.336	43.4	0.62	46.10
1000	11.15	7.59	116	0.336	29.4	0.59	45.99
1003	11.17	7.56	113	0.336	17.6	0.56	45.97
1006	11.18	7.54	110	0.335	14.9	0.54	45.96
1009	11.18	7.52	107	0.336	9.2	0.52	45.96
1012	11.19	7.50	103	0.336	2.5	0.51	45.95
1015	11.20	7.48	99	0.336	0.0	0.50	45.95
1018	11.21	7.47	96	0.336	0.0	0.50	45.95
1021	11.19	7.46	93	0.336	0.0	0.49	45.95
1024	11.20	7.45	90	0.336	0.0	0.49	45.95

OW-4: Due to insufficient recharge for low flow / low stress sampling methods, OW-4s was purged and sampled utilizing hand bailing methods. A total of 17.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 29
Well Purging Data – OW-4**

Time	Temp (°C)	PH (SU)	ORP (mV)	Conductivity mS/cm	Gallons Purged	D.O. (mg/L)	Comments
1150	13.52	7.22	-135.7	0.372	0.50	2.78	Clear
1152	13.19	7.27	-124.2	0.356	3.00	2.20	Clear
1153	13.07	7.21	-111.2	0.350	5.00	1.98	Clear
1155	13.01	7.18	-101.0	0.353	7.00	1.62	Clear
1200	13.06	7.27	-88.0	0.353	9.00	2.62	Clear
1205	13.06	7.29	-72.9	0.352	13.00	1.97	Clear
1206	13.06	7.25	-70.9	0.353	15.00	1.90	Clear
1207	13.01	7.25	-69.6	0.352	17.00	1.83	Clear

**Table 30
Final Sample Data Summary**

Location	pH (SU)	Temp (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth (Feet)
MW-1s	6.31	13.93	1.057	2.03	61.8	11.25
MW-2s	6.70	14.12	1.644	0.74	-135.1	11.91
MW-3s	6.83	14.93	1.331	0.80	-140.9	11.16
MW-4s	7.00	14.41	0.837	2.93	-156.0	--
MW-5s	6.14	13.58	0.503	2.43	-1.1	12.53
MW-6s	6.34	15.14	2.210	2.86	60.4	8.95
MW-12s	6.65	13.21	0.731	5.20	51.1	14.72
MW-13s	6.22	13.69	0.424	5.89	71.6	17.12
MW-15s	6.36	11.92	0.393	5.23	55.4	14.74
MW-16s	6.75	10.83	1.030	2.45	36.8	36.83
MW-1d	7.49	9.33	0.358	8.48	85.4	65.20
MW-2d	6.90	10.35	0.992	8.08	10.3	60.50
MW-6d	7.29	10.25	0.412	4.85	91.0	79.40
MW-7d	7.37	9.26	1.308	7.28	27.3	58.00
OW-4	7.25	13.04	0.352	1.83	-69.6	1.58
SW-1	6.90	6.69	0.339	9.32	30.0	NA
SW-2	7.05	6.50	0.339	9.82	30.3	NA
SW-3	7.35	6.53	0.347	10.75	33.0	NA

Table 31
Final Sample Data Summary

Well #	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Sample Depth (Feet)
MW-7s	15.77	7.14	179	0.961	6.0	4.19	20.2
MW-8s	13.40	6.98	196	0.775	1.0	1.78	15.0
MW-9s	14.30	7.21	190	0.900	0.0	4.66	30.5
MW-10s	12.80	6.87	199	0.836	0.0	2.50	12.5
MW-11s	11.31	7.06	-25	0.486	6.9	0.39	12.6
MW-14s	13.64	5.99	232	0.130	17.4	3.39	13.3
MW-17s	14.70	6.41	205	0.657	32.6	1.54	22.3
MW-8d	13.55	7.33	126	0.379	14.3	0.51	90.0
MW-9d	11.19	7.19	199	0.337	0.0	0.77	162.0
MW-10d	12.66	7.20	137	0.452	0.0	0.54	176.0
MW-11d	12.46	7.53	67	0.336	0.0	1.11	118.0
MW-12d	12.28	7.35	122	0.477	0.0	0.55	191.0
MW-13d	11.20	7.45	90	0.336	0.0	0.49	172.0

Table 32
Final Sample Data Summary

Well #	Date	Time
MW-1s	11.9.11	1038
MW-2s	11.9.11	1132
MW-3s	11.9.11	1005
MW-4s	11.9.11	1134
MW-5s	11.9.11	1057
MW-6s	11.9.11	0921
MW-7s	11.10.11	0917
MW-8s	11.10.11	1330
MW-9s	11.10.11	0833
MW-10s	11.10.11	1449
MW-11s	11.10.11	1553
MW-12s	11.10.11	1105
MW-13s	11.9.11	1325
MW-14s	11.10.11	1213
MW-15s	11.9.11	1551
MW-16s	11.9.11	1535
MW-17s	11.10.11	1017
MW-1d	11.10.11	1515
MW-2d	11.10.11	1545
MW-6d	11.10.11	1453
MW-7d	11.11.11	0800
MW-8d	11.9.11	0920
MW-9d	11.9.11	0811
MW-10d	11.9.11	1305
MW-11d	11.9.11	1401
MW-12d	11.9.11	1133
MW-13d	11.9.11	1026
SW1	11.9.11	0932

SW2	11.9.11	0936
SW3	11.9.11	0940
FB1	11.9.11	1500
FB2	11.10.11	1200
FB3	11.11.11	1630
OW-1	NS	NS
OW-2	NS	NS
OW-3	NS	NS
OW-4	11.9.11	1208

NS= Not Sampled

Table 33
Staff Gauge Data Summary

Staff Gauge #	Height
SG-1	0.58
SG-2	0.45

Day 1 Onsite: 0650
Day 1 Offsite: 1530

Day 2 Onsite: 0720
Day 2 Offsite: 1645

Day 3 Onsite: 0755
Day 3 Offsite: 0853

Field Notes

TO: File

FROM: John Strauss

DATE: June 12 - 14, 2012

PROJECT: Lewis Brothers Garage Property

PROJECT NUMBER: 27058

SUBJECT: Groundwater Sampling Activities

0725: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations wells located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater-monitoring wells and the four (4) observations wells. The general well information is as follows:

**Table 1
General Well Information**

Well #	SWL (Feet)	TD (Feet)	1 Volume	3 Volume	Purged (Gallons)
MW-1s	10.74'	21.95'	1.9	2.7	10.0
MW-2s	13.81'	29.60'	2.6	7.8	8.0
MW-3s	11.62'	28.00'	2.7	8.1	9.0
MW-4s	8.41'	24.90'	NA	NA	2.0
MW-5s	9.28'	21.31'	2.0	6.0	7.0
MW-6s	9.35'	15.20'	1.0	3.0	2.5
MW-7s	13.94'	27.51'	NA	NA	4.0
MW-8s	6.82'	23.52'	NA	NA	3.0
MW-9s	23.11'	39.10'	NA	NA	3.5
MW-10s	7.19'	18.53'	NA	NA	3.0
MW-11s	2.35'	23.54'	NA	NA	3.0
MW-12s	3.61'	19.97'	2.7	8.1	--
MW-13s	14.64'	18.18'	0.6	1.8	--
MW-14s	2.66'	19.85'	NA	NA	--
MW-15s	4.96'	19.13'	2.4	7.2	--
MW-16s	32.45'	37.67'	2.4	7.2	--
MW-17s	16.61'	29.20'	NA	NA	7.5
MW-1d	41.29'	68.60'	NA	NA	43.0
MW-2d	12.91'	78.70'	NA	NA	108.0
MW-6d	56.70'	85.20'	NA	NA	42.0
MW-7d	25.80'	60.40'	NA	NA	45.0
MW-8d	69.37'	100.00'	90.0	0.31	2.0
MW-9d	67.72'	172.00'	162.0	0.47	4.5
MW-10d	68.75'	186.00'	176.0	0.11	1.5
MW-11d	70.68'	128.00'	118.0	0.25	3.5
MW-12d	62.69'	201.00'	191.0	0.35	3.5
MW-13d	47.11'	182.00'	172.0	0.42	6.0
OW-1	2.86'	11.58'	--	--	--
OW-2	2.14'	10.98'	--	--	--
OW-3	1.98'	10.92'	5.8	17.4	--
OW-4	2.11'	9.95'	--	--	--

NS= Not Sampled

MW-1s: Due to insufficient recharge for low flow / low stress sampling methods, MW-1s was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 2
Well Purging Data – MW-1s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1246	10.91	5.99	67.9	0.791	0.25	2.57	Silty
1248	11.20	5.93	69.1	0.959	2.0	2.61	Silty
1251	10.94	6.06	63.2	0.961	4.0	2.43	Silty
1253	10.74	6.10	62.1	0.907	5.0	2.62	Silty
1255	10.62	6.13	57.3	0.892	6.0	2.30	Silty
1256	10.54	6.11	55.6	0.880	7.0	2.79	Silty
1258	10.46	6.15	51.7	0.892	8.0	3.80	Silty
1300	10.45	6.17	48.4	0.820	10.0	4.37	Silty

MW-2s: Due to the historical presence of Separate Phase Liquid (SPL), MW-2 was purged utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well. Strong odorous and visual indications of contamination were observed.

Table 3
Well Purging Data – MW-2s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1508	12.51	6.49	-108.9	1.397	0.25	4.87	Silty
1510	11.84	6.44	-121.9	1.539	1.0	1.63	Silty
1511	11.81	6.39	-123.8	1.570	2.0	1.63	Silty
1513	11.71	6.36	-125.3	1.588	3.0	2.20	Silty
1515	11.67	6.38	-125.5	1.595	4.0	2.12	Silty
1517	11.58	6.37	-125.0	1.595	5.0	2.50	Silty
1519	11.56	6.39	-126.3	1.595	6.0	1.99	Silty
1521	11.50	6.37	-124.9	1.588	7.0	2.59	Silty
1524	11.53	6.39	-126.0	1.584	8.0	1.82	Silty

MW-3s: Due to the historical presence of Separate Phase Liquid (SPL), MW-3s was purged utilizing hand bailing methods. A total of 9.0 gallons was extracted from the well. The well maintained a steady recharge throughout the completion of purging activities. Strong odorous and visual indications of contamination were observed.

Table 4
Well Purging Data – MW-3s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1434	12.59	6.24	-87.3	0.885	0.5	1.25	Silty
1435	12.03	6.28	-102.1	0.990	2.0	1.33	Silty
1437	11.91	6.25	-102.7	0.831	3.0	1.77	Silty
1439	11.66	6.28	-104.0	0.869	4.0	1.75	Silty
1441	11.86	6.30	-104.4	0.866	5.0	1.87	Silty
1442	11.66	6.30	-104.9	1.365	6.0	1.62	Silty
1445	11.73	6.34	-106.7	1.379	7.0	2.06	Silty
1447	11.58	6.34	-106.3	1.405	8.0	1.50	Silty
1449	11.63	6.35	-106.3	1.392	9.0	1.88	Silty

MW-4s: MW-4s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 16.7'. The well was purged and sampled at 130 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. Strong odorous indication of contamination was observed during purging activities.

Table 5
Well Purging Data – MW-4s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1510	16.06	6.95	-42	0.445	41.8	0.22	9.39'
1513	16.34	6.96	-46	0.456	28.7	0.22	9.40'
1516	16.41	6.97	-50	0.464	24.7	0.21	9.40'
1519	16.62	6.98	-53	0.473	19.5	0.21	9.40'
1522	16.67	6.98	-56	0.480	18.5	0.21	9.40'
1525	16.74	6.98	-60	0.486	13.5	0.21	9.40'

MW-5s: MW-5s is characterized as too turbid for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. The well maintained steady recharge throughout the duration of purging activities. A total of 7.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 6
Well Purging Data – MW-5s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1321	12.91	7.04	230	0.325	0.25	12.24	Silty
1322	11.94	6.41	234	0.335	1.0	7.40	Silty
1323	11.30	6.23	233	0.340	2.0	4.22	Silty
1324	11.22	6.11	242	0.350	3.0	3.84	Silty
1326	10.90	6.09	242	0.352	4.0	3.81	Silty
1327	10.83	6.04	245	0.349	5.0	4.02	Silty
1328	10.65	6.14	238	0.351	6.0	3.96	Silty
1330	10.55	6.06	240	0.379	7.0	7.81	Silty

MW-6s: MW-6s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and samples utilizing hand bailing method. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 7
Well Purging Data – MW-6s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1223	12.84	6.01	57.7	1.370	0.25	7.85	Silty
1224	12.43	5.99	68.8	2.154	1.0	3.61	Silty
1225	12.24	5.98	71.6	2.164	2.0	2.90	Silty
1227	11.93	6.00	70.0	2.163	2.5	4.60	Silty

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 20.7'. The well was purged and sampled at 450 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 8
Well Purging Data – MW-7s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0947	13.95	6.50	218	0.829	0.00	6.26	14.09'
0950	14.12	6.56	209	0.829	0.00	5.66	14.11'
0953	14.25	6.58	203	0.827	0.00	5.46	14.11'
0956	14.25	6.59	199	0.823	0.00	5.09	14.11'
0959	14.25	6.58	196	0.820	0.00	4.93	14.11'
1002	14.26	6.58	194	0.820	0.00	4.76	14.11'
1005	14.25	6.57	192	0.824	0.00	4.55	14.11'
1008	14.24	6.57	191	0.821	0.00	4.33	14.11'
1011	14.33	6.57	189	0.819	0.00	4.46	14.11'

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.2'. The well was purged and sampled at 230 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities. Also, note that the man way was cracked due to road construction with debris inside well.

Table 9
Well Purging Data – MW-8s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0956	13.88	6.70	242	0.441	0.0	6.58	6.10'
0959	14.42	6.70	237	0.446	0.0	6.04	6.18'
1002	14.97	6.71	233	0.450	0.0	5.50	6.19'
1005	15.17	6.71	229	0.452	0.0	5.24	6.20'
1008	15.31	6.71	226	0.453	0.0	5.02	6.20'
1011	15.29	6.71	223	0.451	0.0	4.85	6.20'
1014	15.40	6.71	221	0.452	0.0	4.59	6.20'
1017	15.33	6.71	220	0.449	0.0	4.29	6.20'
1020	15.34	6.71	219	0.451	0.0	4.21	6.20'
1023	15.40	6.71	218	0.453	0.0	4.14	6.20'

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 31.1'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 10
Well Purging Data – MW-9s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1058	13.42	6.95	191	0.733	0.0	6.29	22.25'
1101	13.83	6.89	186	0.738	0.0	5.85	23.50'
1104	13.95	6.87	181	0.742	0.0	5.80	23.35'
1107	13.98	6.86	176	0.742	0.0	5.75	23.39'
1110	14.03	6.85	173	0.749	0.0	5.50	23.41'
1113	14.12	6.85	171	0.749	0.0	5.47	23.42'
1116	14.19	6.85	169	0.754	0.0	5.53	23.42'
1119	14.19	6.84	168	0.757	0.0	5.30	23.42'
1122	14.20	6.85	167	0.757	0.0	5.47	23.42'

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.9'. The well was purged and sampled at 130 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 11
Well Purging Data – MW-10s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1240	12.81	6.54	302	0.740	0.0	1.92	7.51'
1243	12.99	6.60	294	0.750	0.0	1.51	7.68'
1246	13.36	6.62	287	0.759	0.0	1.35	7.75'
1249	13.67	6.62	281	0.763	0.0	1.29	7.84'
1252	14.01	6.64	274	0.770	0.0	1.30	7.85'
1255	14.43	6.65	266	0.775	0.0	1.32	7.89'
1258	14.90	6.67	260	0.782	0.0	1.26	7.90'
1301	15.30	6.68	254	0.783	0.0	1.24	7.91'
1304	15.66	6.70	247	0.788	0.0	1.23	7.91'
1307	15.99	6.70	242	0.784	0.0	1.16	7.91'
1310	16.22	6.69	238	0.784	0.0	1.09	7.91'
1313	15.77	6.74	231	0.786	0.0	1.13	7.91'
1316	16.26	6.73	227	0.788	0.0	1.16	7.91'
1319	16.43	6.72	224	0.793	0.0	1.07	7.91'

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.0'. The well was purged and sampled at 240 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

**Table 12
Well Purging Data – MW-11s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1353	12.65	7.04	33	0.444	0.0	0.64	2.60'
1356	12.23	6.87	13	0.447	0.0	0.41	2.61'
1359	12.62	6.78	8	0.451	0.0	0.30	2.61'
1402	12.86	6.75	2	0.453	0.0	0.29	2.61'
1405	13.01	6.73	-4	0.454	0.0	0.26	2.61'
1408	13.07	6.73	-10	0.456	0.0	0.25	2.61'
1411	13.27	6.74	-15	0.457	0.0	0.25	2.61'
1414	13.55	6.75	-19	0.460	0.0	0.24	2.61'
1417	13.84	6.76	-23	0.459	0.0	0.22	2.61'
1420	13.61	6.77	-26	0.458	0.0	0.21	2.61'
1423	13.82	6.77	-28	0.459	0.0	0.20	2.61'

MW-12s: MW-12s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 9.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 13
Well Purging Data – MW-12s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1200	12.97	5.91	63.8	0.314	0.25	4.78	Cloudy
1203	16.14	6.96	67.2	0.319	2.00	4.06	Very Cloudy
1206	16.01	6.19	62.9	0.322	3.00	4.30	Silty
1208	17.09	6.03	58.7	0.339	4.00	4.20	Silty
1210	16.00	6.29	55.4	0.316	5.00	4.03	Silty
1212	16.04	6.38	60.2	0.325	6.00	4.10	Silty
1215	16.02	6.49	63.3	0.323	7.00	3.93	Silty
1217	16.02	6.47	64.4	0.325	8.00	4.07	Silty
1220	16.04	6.46	60.1	0.322	9.00	3.98	Silty

MW-13s: MW-13s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 14
Well Purging Data – MW-13s**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0847	11.56	7.29	33.8	0.526	0.25	7.35	Silty
0849	11.33	7.33	40.6	0.517	3.0	6.73	Silty
0850	11.02	7.51	43.8	0.519	4.0	8.20	Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.3. The well was purged and sampled at 250 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 15
Well Purging Data – MW-14s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1100	--	--	--	--	--	--	Turbid
1122	13.63	5.48	281	0.119	30.8	3.48	7.42'
1125	13.70	5.47	284	0.119	22.5	3.46	7.42'
1128	13.79	5.45	287	0.117	11.4	3.42	7.42'
1131	13.97	5.45	289	0.118	9.0	3.40	7.42'
1134	13.91	5.46	290	0.117	4.1	3.43	7.42'
1137	14.00	5.47	291	0.116	0.0	3.40	7.42'
1140	14.14	5.46	293	0.116	0.0	3.32	7.42'
1143	14.00	5.47	294	0.115	0.0	3.48	7.42'
1146	13.94	5.47	296	0.115	0.0	3.55	7.42'
1149	13.95	5.46	297	0.115	0.0	3.60	7.42'

MW-15s: MW-15s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 16
Well Purging Data – MW-15s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1001	9.43	7.20	32.7	0.284	0.25	7.79	Silty
1003	10.05	6.79	58.7	0.295	2.00	7.03	Silty
1005	10.00	6.67	53.4	0.295	3.00	6.72	Silty
1006	9.80	6.43	59.3	0.294	4.00	6.73	Silty
1008	9.79	6.42	58.2	0.293	5.00	6.89	Silty
1010	9.79	6.45	63.7	0.293	6.00	7.22	Silty
1011	9.76	6.46	68.2	0.294	7.00	7.14	Silty
1012	9.42	6.47	60.4	0.302	8.00	7.87	Silty
1013	9.40	6.73	65.5	0.333	9.00	7.93	Silty
1014	9.30	6.96	63.5	0.338	10.00	8.53	Silty

MW-16s: MW-16s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 17
Well Purging Data – MW-16s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
0907	11.71	6.12	38.9	1.164	0.25	3.67	Silty
0908	11.00	6.41	35.5	0.979	1.0	4.14	Silty
0910	11.33	5.68	32.4	1.034	2.0	5.05	Silty

MW-17s: MW-17s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 22.9'. The well was purged and sampled at 330 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 7.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 18
Well Purging Data – MW-17s

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0815	--	--	--	--	--	--	16.65'
0900	13.80	6.20	227	0.618	59.6	3.43	16.65'
0903	13.87	6.21	227	0.616	52.3	3.26	16.65'
0906	13.93	6.21	227	0.618	45.6	3.15	16.65'
0909	13.97	6.23	227	0.622	39.6	3.05	16.65'
0912	13.95	6.24	226	0.624	33.9	2.95	16.65'
0915	13.99	6.25	226	0.624	30.2	2.87	16.65'
0918	14.03	6.25	227	0.621	30.9	2.82	16.65'
0921	14.08	6.26	226	0.626	25.7	2.78	16.65'

MW-1d: MW-1d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 40.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 19
Well Purging Data – MW-1d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1332	14.19	6.65	3.5	0.389	0.25	9.15	Silty
1334	12.08	6.43	21.8	0.386	10.0	9.50	Clear
1336	11.90	6.21	30.6	0.382	15.0	8.77	S. Silty
1338	11.94	6.17	22.1	0.369	20.0	8.77	S. Silty
1340	12.00	6.16	22.0	0.360	25.0	8.97	Clear
1342	11.98	6.18	19.8	0.351	30.0	9.10	Clear
1343	12.18	6.19	23.5	0.350	35.0	8.65	Clear
1345	11.97	6.22	26.2	0.355	40.0	8.80	Clear

MW-2d: MW-2d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 105.0 gallons was extracted from the well. Odorous indications of contamination were observed during purging activities.

Table 20
Well Purging Data – MW-2d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1624	13.34	8.00	-177.4	1.020	0.25	5.16	Silty
1626	12.42	7.15	-114.1	1.077	10.0	5.70	Silty
1629	12.48	6.86	-96.7	1.087	40.0	7.37	Silty
1633	12.58	6.69	-91.9	1.090	60.0	7.31	Silty
1635	11.95	6.69	-108.9	1.081	80.0	5.55	Silty
1637	12.44	6.59	-103.7	1.054	90.0	4.92	Silty
1639	12.79	6.55	-93.0	1.019	100.0	7.20	Silty
1641	14.08	6.49	-90.4	1.025	105.0	7.18	Silty

MW-6d: MW-6d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 42.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 21
Well Purging Data – MW-6d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallon	D.O. (mg/L)	Comment
1421	13.50	6.66	15.5	0.497	0.25	7.90	Silty
1422	12.27	6.70	14.5	0.450	10.0	4.30	Silty
1424	12.25	6.48	24.0	0.451	20.0	8.64	Silty
1426	12.61	6.46	24.9	0.449	25.0	8.59	S. Silty
1434	12.71	6.66	15.9	0.448	30.0	8.71	Silty
1436	12.81	6.58	22.5	0.444	35.0	8.81	Silty
1437	19.62	6.60	20.0	0.441	40.0	8.66	S. Silty

MW-7d: MW-7d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 45.0 gallons was extracted from the well. Slight odorous indications of contamination were observed during purging activities.

Table 22
Well Purging Data – MW-7d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Gallons	D.O. (mg/L)	Comment
1511	14.24	6.51	31.0	1.617	0.25	7.82	Silty
1512	13.17	6.92	26.7	1.581	10.0	8.12	Silty
1514	12.95	6.91	-19.1	1.233	20.0	8.19	Silty
1522	13.33	6.68	-102.7	1.105	30.0	7.50	Silty
1523	13.26	6.80	-131.0	0.856	35.0	7.91	Silty
1525	13.18	6.47	-127.4	0.667	40.0	7.99	Silty
1526	12.91	8.02	-123.3	0.670	45.0	6.75	Silty

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 90.0'. The well was purged and sampled at 300 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 23
Well Purging Data – MW-8d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0743	13.94	7.23	244	0.347	3.7	1.62	69.50'
0746	14.41	7.22	232	0.350	11.0	1.62	69.54'
0749	14.55	7.22	224	0.351	11.3	1.55	69.64'
0752	14.65	7.22	215	0.352	8.5	1.63	69.72'
0755	14.74	7.23	209	0.353	9.9	1.62	69.72'
0758	14.72	7.23	207	0.351	9.5	1.72	69.72'
0801	14.71	7.23	207	0.351	8.9	1.65	69.72'

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 470 ml / min. A total of 4.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 24
Well Purging Data – MW-9d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0847	11.74	6.95	241	0.408	4.7	0.89	69.65'
0850	11.95	6.91	206	0.417	0.0	0.66	69.65'
0853	11.92	6.88	177	0.418	0.0	0.58	69.65'
0856	11.91	6.87	155	0.417	0.0	0.51	69.65'
0859	11.91	6.85	139	0.416	0.0	0.47	69.65'
0902	11.86	6.84	126	0.415	0.0	0.44	69.65'
0905	11.90	6.82	115	0.414	0.0	0.42	69.65'
0908	11.89	6.81	108	0.412	0.0	0.40	69.65'
0911	11.92	6.79	103	0.411	0.0	0.39	69.65'
0914	11.89	6.78	98	0.410	0.0	0.40	69.65'

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 176.0'. The well was purged and sampled at 110 ml / min. A total of 1.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 25
Well Purging Data – MW-10d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1325	11.60	7.02	164	0.411	0.0	0.70	69.56'
1328	11.64	7.00	137	0.412	0.0	0.61	69.75'
1331	11.62	6.97	117	0.411	0.0	0.59	69.94'
1334	11.62	6.96	105	0.411	0.0	0.54	70.11'
1337	11.64	6.96	100	0.412	0.0	0.54	70.11'
1340	11.70	6.95	95	0.412	0.0	0.53	70.11'

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 250 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 26
Well Purging Data – MW-11d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1432	13.11	7.13	172	0.301	0.0	1.17	70.96'
1435	13.31	7.12	162	0.302	0.0	1.15	70.96'
1438	13.33	7.12	154	0.302	0.0	1.08	70.96'
1441	13.35	7.12	147	0.301	0.0	1.05	70.96'
1444	13.41	7.11	141	0.301	0.0	0.99	70.96'
1447	13.34	7.11	134	0.300	0.0	0.94	70.96'

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 350 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 27
Well Purging Data – MW-12d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1203	11.81	7.12	52	0.438	136	0.62	62.75'
1206	11.81	7.10	49	0.438	116	0.58	62.75'
1209	11.78	7.10	47	0.437	95.9	0.52	62.75'
1212	11.80	7.09	44	0.437	73.0	0.50	62.75'
1215	11.80	7.08	42	0.436	66.6	0.48	62.75'
1218	11.79	7.08	41	0.436	41.3	0.43	62.75'
1221	11.77	7.07	40	0.435	39.5	0.43	62.75'

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 28
Well Purging Data – MW-13d

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1000	--	--	--	--	--	--	Turbid
1034	--	--	--	--	372	--	--
1043	--	--	--	--	167	--	--
1049	11.63	7.05	-10	0.311	109	0.30	47.95'
1052	11.67	7.05	-8	0.312	79.0	0.31	47.95'
1055	11.67	7.05	-8	0.312	58.7	0.31	47.95'

OW-3: Due to insufficient recharge for low flow / low stress sampling methods, OW-3 was purged and sampled utilizing hand bailing methods. A total of 20.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

Table 29
Well Purging Data – OW-3

Time	Temp (°C)	PH (SU)	ORP (mV)	Conductivity mS/cm	Gallons Purged	D.O. (mg/L)	Comments
1352	12.86	6.59	216	0.231	1.0	3.69	S. Silty
1354	13.17	6.71	209	0.220	2.5	2.37	Silty
1355	13.06	6.91	201	0.220	5.0	3.60	Silty
1356	13.07	6.92	201	0.218	7.5	3.04	Silty
1358	13.16	7.14	195	0.222	10.0	2.51	Silty
1400	13.24	7.17	192	0.221	12.5	2.98	Silty
1402	13.14	7.24	189	0.222	15.0	6.33	Silty
1404	13.14	7.23	191	0.219	17.5	6.51	Silty
1406	13.15	7.27	189	0.218	20.0	6.15	Silty

Table 30
Final Sample Data Summary

Location	pH (SU)	Temp (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth (Feet)
MW1s	6.19	12.29	0.967	2.45	28.3	11.37
MW2s	6.39	11.53	1.584	1.82	-126.0	13.90
MW3s	6.35	11.67	1.392	1.88	-106.3	12.38
MW5s	6.06	10.55	0.379	7.81	240.0	10.15
MW6s	6.23	13.13	2.146	2.65	114.1	9.47
MW12s	6.46	16.04	0.322	3.98	60.01	--
MW13s	7.51	11.02	0.519	8.20	43.8	--
MW15s	6.96	9.30	0.338	8.53	63.5	--
MW16s	5.68	11.33	1.034	5.05	32.4	--
MW1d	6.62	10.67	0.376	8.67	10.3	61.55
MW2d	6.35	11.59	1.013	3.56	-62.6	28.50
MW6d	6.87	11.21	0.388	5.26	1.4	71.91
MW7d	6.23	14.22	1.379	2.64	-22.1	58.66
OW3	7.27	13.15	0.218	6.15	189.0	1.90
SW1	6.06	18.03	0.252	3.32	-73.1	--
SW2	6.25	16.89	0.269	5.49	10.2	--
SW3	6.52	17.07	0.271	5.18	18.4	--
SW4	6.60	17.61	0.585	6.41	-30.1	--
SW5	6.81	18.47	0.358	7.03	17.3	--
SW6	6.81	16.36	0.571	7.99	22.1	--

Table 31
Final Sample Data Summary

Well #	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Sample Depth (Feet)
MW4s	16.74	6.98	-60	0.486	13.5	0.21	NA
MW7s	14.33	6.57	189	0.819	0.00	4.46	NA
MW8s	15.40	6.71	218	0.453	0.0	4.14	NA
MW9s	14.20	6.85	167	0.757	0.0	5.47	NA
MW10s	16.43	6.72	224	0.793	0.0	1.07	NA
MW11s	13.82	6.77	-28	0.459	0.0	0.20	NA
MW14s	13.95	5.46	297	0.115	0.0	3.60	NA
MW17s	14.08	6.26	226	0.626	25.7	2.78	NA
MW8d	14.71	7.23	207	0.351	8.9	1.65	NA
MW9d	11.89	6.78	98	0.410	0.0	0.40	NA
MW10d	11.70	6.95	95	0.412	0.0	0.53	NA
MW11d	13.34	7.11	134	0.300	0.0	0.94	NA
MW12d	11.77	7.07	40	0.435	39.5	0.43	NA
MW13d	11.67	7.05	-8	0.312	58.7	0.31	NA

Table 32
Sample Log

Well #	Date	Time
MW-1s	06.12.12	1423
MW-2s	06.12.12	1530
MW-3s	06.12.12	1500
MW-4s	06.14.12	1527
MW-5s	06.12.12	1330
MW-6s	06.12.12	1412
MW-7s	06.12.12	1014
MW-8s	06.14.12	1025
MW-9s	06.12.12	1125
MW-10s	06.14.12	1321
MW-11s	06.14.12	1425
MW-12s	06.13.12	1222
MW-13s	06.13.12	1117
MW-14s	06.14.12	1151
MW-15s	06.13.12	1055
MW-16s	06.13.12	1104
MW-17s	06.14.12	0924
MW-1d	06.14.12	0715
MW-2d	06.14.12	0746
MW-6d	06.14.12	0725
MW-7d	06.14.12	1500
MW-8d	06.13.12	0804
MW-9d	06.13.12	0917
MW-10d	06.13.12	1342
MW-11d	06.13.12	1450
MW-12d	06.13.12	1224
MW-13d	06.13.12	1057
SW1	06.12.12	0800
SW2	06.12.12	0755
SW3	06.12.12	0750
SW4	06.12.12	1318
SW5	06.12.12	1326
SW6	06.12.12	1336
FB1	06.12.12	1540
FB2	06.13.12	1645
FB3	06.14.12	1535
OW-1	NS	--
OW-2	NS	--
OW-3	06.12.12	1410
OW-4	NS	--

NS= Not Sampled

Table 33
Staff Gauge Data Summary

Staff Gauge #	Height
SG-1	0.58
SG-2	0.45

Day 1 Onsite: 0725
Day 1 Offsite: 1545

Day 2 Onsite: 0655
Day 2 Offsite: 1700

Day 3 Onsite: 0645
Day 3 Offsite: 1600

Field Notes

TO: File

FROM: Kevin Cucura

DATE: August 9, 2012

PROJECT: Lewis Brothers Garage Property

PROJECT NUMBER: 27058

SUBJECT: Groundwater Sampling Activities

0730: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations wells located on and adjacent to the subject property. The purpose of the field activities was to resample MW-12d. The general well information is as follows:

**Table 1
General Well Information**

Well #	SWL (Feet)	TD (Feet)	Depth (Feet)	Rate (L/min)	Purged (Gallons)
MW-1s	13.12	21.95	NS	NS	NS
MW-2s	15.74	29.60	NS	NS	NS
MW-3s	14.63	28.00	NS	NS	NS
MW-4s	10.91	24.90	NS	NS	NS
MW-5s	11.66	21.31	NS	NS	NS
MW-6s	11.91	15.20	NS	NS	NS
MW-7s	16.91	27.51	NS	NS	NS
MW-8s	10.58	23.52	NS	NS	NS
MW-9s	26.15	39.10	NS	NS	NS
MW-10s	9.72	18.53	NS	NS	NS
MW-11s	4.77	23.54	NS	NS	NS
MW-12s	2.82	19.97	NS	NS	NS
MW-13s	15.86	18.18	NS	NS	NS
MW-14s	7.97	19.85	NS	NS	NS
MW-15s	6.34	19.13	NS	NS	NS
MW-16s	32.81	37.67	NS	NS	NS
MW-17s	17.43	29.20	NS	NS	NS
MW-1d	42.18	68.60	NS	NS	NS
MW-2d	15.19	78.70	NS	NS	NS
MW-6d	59.35	85.20	NS	NS	NS
MW-7d	28.01	60.40	NS	NS	NS
MW-8d	71.35	100.00	NS	NS	NS
MW-9d	71.53	172.00	NS	NS	NS
MW-10d	70.09	186.00	NS	NS	NS
MW-11d	72.46	128.00	NS	NS	NS
MW-12d	64.39	201.00	191.0	0.38	2.5
MW-13d	48.77	182.00	NS	NS	NS
OW-1	3.51	11.58	NS	NS	NS
OW-2	2.80	10.98	NS	NS	NS
OW-3	2.60	10.92	NS	NS	NS
OW-4	1.95	9.95	NS	NS	NS

*=1vol/3vol NS= Not Sampled

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 380 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 2
Well Purging Data – MW-12d**

Time	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0844	13.73	7.00	81	0.403	0.0	3.28	64.42
0847	12.21	6.95	71	0.404	4.4	0.86	64.42
0850	12.30	6.93	65	0.404	0.8	0.76	64.42
0853	12.24	6.90	63	0.403	0.0	0.73	64.42
0856	12.30	6.89	61	0.403	0.0	0.69	64.42
0859	12.25	6.88	61	0.404	0.0	0.70	64.42

**Table 33
Final Sample Data Summary**

Well #	Temp (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Sample Depth (Feet)
MW-12d	12.25	6.88	61	0.404	0.0	0.70	64.42

Table 4
Final Sample Data Summary

Well #	Date	Time
MW-1s	NS	NS
MW-2s	NS	NS
MW-3s	NS	NS
MW-4s	NS	NS
MW-5s	NS	NS
MW-6s	NS	NS
MW-7s	NS	NS
MW-8s	NS	NS
MW-9s	NS	NS
MW-10s	NS	NS
MW-11s	NS	NS
MW-12s	NS	NS
MW-13s	NS	NS
MW-14s	NS	NS
MW-15s	NS	NS
MW-16s	NS	NS
MW-17s	NS	NS
MW-1d	NS	NS
MW-2d	NS	NS
MW-6d	NS	NS
MW-7d	NS	NS
MW-8d	NS	NS
MW-9d	NS	NS
MW-10d	NS	NS
MW-11d	NS	NS
MW-12d	08.09.12	0902
MW-13d	NS	NS
SW1	NS	NS
SW2	NS	NS
SW3	NS	NS
FB1	08.09.12	0915
FB2	NS	NS
FB3	NS	NS
OW-1	NS	NS
OW-2	NS	NS
OW-3	NS	NS
OW-4	NS	NS

NS= Not Sampled

Offsite: 1240

Field Notes

TO: File

FROM: Ray Hanley

DATE: October 2 – 4, 2013

PROJECT: Lewis Brothers Garage Property

PROJECT NUMBER: 27058

SUBJECT: Groundwater Sampling Activities

0815: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations wells located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater-monitoring wells and one (1) of the four (4) observations wells. The general well information is as follows:

**Table 1
General Well Information**

Well #	S.W.L. (Feet)	Total Depth (Feet)	Pump Depth (Feet)	Pump Rate (L/min)	Purged (Gallons)
MW-1s	12.24	21.95	1.6/4.8*	NA	7.0
MW-2s	14.41	29.60	2.5/7.5*	NA	8.0
MW-3s	13.54	28.00	2.4/7.2*	NA	8.0
MW-4s	9.69	24.90	17.3	0.11	1.0
MW-5s	10.84	21.31	1.8/5.4*	NA	11.0
MW-6s	11.24	15.20	0.7/2.1*	NA	1.0
MW-7s	15.70	27.51	21.6	0.44	2.5
MW-8s	10.33	23.52	16.9	0.25	2.5
MW-9s	24.87	39.10	32.0	0.48	4.0
MW-10s	8.74	18.53	13.6	0.11	1.5
MW-11s	3.92	23.54	13.7	0.49	3.5
MW-12s	5.67	19.97	2.4/7.2*	NA	5.0
MW-13s	15.53	18.18	0.44/1.32*	NA	2.0
MW-14s	8.14	19.85	14.0	0.40	3.0
MW-15s	4.25	19.13	2.5/7.5*	NA	7.0
MW-16s	32.79	37.67	0.81/2.42*	NA	1.5
MW-17s	17.18	29.20	23.2	0.50	7.5
MW-1d	41.41	68.60	40.0/120.0*	NA	41.0
MW-2d	14.95	78.70	93.7/281.1*	NA	96.0
MW-6d	59.09	85.20	38.4/115.2*	NA	36.0
MW-7d	17.69	60.40	62.8/188.4*	NA	65.0
MW-8d	72.43	100.00	90.0	0.21	2.0
MW-9d	72.38	172.00	162.0	0.49	3.0
MW-10d	69.22	186.00	176.0	0.10	1.0
MW-11d	73.42	128.00	118.0	0.38	2.0
MW-12d	65.33	201.00	191.0	0.30	1.5
MW-13d	49.72	182.00	172.0	0.45	3.5
OW-1	4.43	11.58	--	--	--
OW-2	3.75	10.98	--	--	--
OW-3	3.57	10.92	---	--	--
OW-4	2.87	9.95	4.6/13.8*	NA	14.0

NA: Well not suited to low flow, * denotes 1vol/3vol

MW-1s: Due to insufficient recharge for low flow / low stress sampling methods, MW-1s was purged and sampled utilizing hand bailing methods. A total of 7.0 gallons was extracted from the well. Odorous indications of contamination were observed throughout purging activities.

Table 2
Well Purging Data – MW-1s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1333	13.89	6.61	117.1	0.693	1.98	0.25	Silty
1334	14.80	6.40	130.8	0.685	2.21	2.0	Silty
1335	14.53	6.23	140.2	0.704	2.36	3.0	Silty
1336	13.97	6.19	142.8	0.704	2.74	5.0	Silty
1337	13.71	6.15	145.9	0.708	3.15	6.0	Silty
1338	13.57	6.11	147.9	0.704	3.33	7.0	Silty

MW-2s: Due to the presence of Separate Phase Liquid (0.01'), MW-2 was purged utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well after the removal of all SPL. Strong odorous and visual indications of contamination were observed throughout purging activities. Note, static water level corrected for the presence of SPL.

Table 3
Well Purging Data – MW-2s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1522	16.29	6.59	17.9	2.139	1.14	0.25	Clear
1524	15.47	6.71	1.0	2.053	1.21	1.0	Cloudy
1525	14.78	6.76	-10.2	1.867	1.27	2.0	Cloudy
1526	14.42	6.72	-17.9	1.783	1.18	3.0	Cloudy
1528	14.15	6.70	-22.7	1.738	1.28	5.0	Cloudy
1530	14.13	6.72	-29.1	1.710	1.38	6.0	Cloudy
1531	14.06	6.67	-34.1	1.678	1.27	8.0	Cloudy

MW-3s: Due to the presence of Separate Phase Liquid (0.11'), MW-3s was purged utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well after the removal of all SPL. The well maintained a steady recharge throughout the completion of purging activities. Strong odorous and visual indications of contamination were observed throughout purging activities. Note, static water level corrected for the presence of SPL.

Table 4
Well Purging Data – MW-3s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1546	15.16	7.08	-60.2	1.109	1.35	0.25	Silty
1547	16.05	7.10	-60.7	0.831	2.67	1.0	Silty
1549	15.85	7.04	-56.5	1.033	2.21	2.0	Silty
1551	15.42	7.00	-53.6	1.201	1.77	4.0	Silty
1552	15.07	6.99	-49.4	1.290	1.26	5.0	Silty
1554	15.14	6.97	-46.4	1.335	1.36	6.0	Silty
1555	15.31	6.97	-48.7	1.248	1.26	7.0	Silty
1556	15.25	6.96	-48.6	1.270	1.59	8.0	Silty

MW-4s: MW-4s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 17.3'. The well was purged and sampled at 110 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.0 gallon was extracted from the well. Odorous indications of contamination were observed throughout purging activities.

Table 5
Well Purging Data – MW-4s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1522	16.82	7.24	-36	0.620	0.0	0.56	10.36
1525	17.75	7.23	-43	0.596	0.0	0.54	10.39
1528	18.52	7.22	-46	0.570	3.8	0.54	10.41
1531	19.33	7.21	-48	0.559	4.0	0.57	10.41
1534	19.73	7.19	-48	0.559	13.6	0.56	10.41

MW-5s: MW-5s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 11.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 6
Well Purging Data – MW-5s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1346	13.49	6.38	131.8	0.544	1.81	0.25	Silty
1347	14.88	6.06	144.0	0.548	2.02	1.0	Silty
1348	14.71	6.19	135.1	0.549	2.24	2.0	Silty
1349	13.60	6.32	129.7	0.547	2.43	3.0	Silty
1350	14.06	6.17	137.7	0.558	2.59	4.0	Silty
1351	13.54	6.14	138.7	0.547	2.13	5.0	Silty
1352	13.46	6.07	142.9	0.545	2.36	6.0	Silty
1353	13.48	6.03	145.3	0.556	2.66	7.0	Silty
1354	13.36	6.02	145.3	0.549	2.57	8.0	Silty
1357	13.59	6.02	145.4	0.558	3.16	10.0	Silty
1358	13.39	6.13	140.7	0.551	4.21	11.0	Silty

MW-6s: MW-6s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and samples utilizing hand bailing method. A total of 1.0 gallon was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 7
Well Purging Data – MW-6s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1323	16.88	6.50	137.7	1.794	2.87	0.25	Cloudy
1324	16.33	6.54	134.7	1.823	3.22	1.0	Silty

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 21.6'. The well was purged and sampled at 440 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total

of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 8
Well Purging Data – MW-7s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0829	15.79	7.29	206	0.864	0.0	3.58	16.06
0832	16.25	7.23	196	0.873	0.0	3.34	16.06
0835	16.37	7.20	192	0.874	0.0	3.20	16.06
0838	16.42	7.19	191	0.872	0.0	3.08	16.06
0841	16.44	7.19	188	0.868	0.0	2.96	16.06

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 16.9'. The well was purged and sampled at 250 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 9
Well Purging Data – MW-8s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0959	16.47	6.99	178	0.733	0.0	3.15	11.01
1002	16.95	6.97	167	0.741	7.9	3.06	11.09
1005	17.14	6.96	165	0.741	17.1	2.88	11.10
1008	17.31	6.95	165	0.741	15.3	2.70	11.10
1011	17.41	6.95	167	0.740	12.6	2.58	11.10
1014	17.43	6.95	167	0.738	11.3	2.50	11.10
1017	17.48	6.95	169	0.737	10.9	2.40	11.10

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 32.0'. The well was purged and sampled at 480 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visuals of contamination were observed throughout purging activities.

Table 10
Well Purging Data – MW-9s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0910	13.50	7.29	185	0.704	0.0	3.97	25.45
0913	14.09	7.28	182	0.713	0.0	3.96	25.45
0916	14.26	7.28	179	0.719	0.0	3.95	25.45
0919	14.32	7.27	179	0.722	0.0	3.93	25.45
0922	14.33	7.27	179	0.723	0.0	3.91	25.45

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.6'. The well was purged and sampled at 110 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total

of 1.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 11
Well Purging Data – MW-10s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1348	14.71	6.93	281	0.776	0.0	0.70	9.09
1351	15.11	6.98	265	0.779	0.0	0.65	9.21
1354	15.56	6.99	248	0.803	0.0	0.64	9.25
1357	15.88	7.01	235	0.818	0.0	0.66	9.25
1400	16.15	7.02	215	0.844	0.0	0.73	9.25
1403	16.31	7.02	202	0.884	0.0	0.77	9.25

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.7'. The well was purged and sampled at 490 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well. Odorous and visual indications of contamination were observed throughout purging activities.

Table 12
Well Purging Data – MW-11s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1428	14.22	7.20	-43	0.436	0.0	0.56	4.36
1431	14.39	7.15	-47	0.441	0.0	0.47	4.36
1434	14.46	7.14	-48	0.442	0.0	0.46	4.36
1437	14.59	7.12	-50	0.440	0.0	0.43	4.36
1440	14.73	7.11	-52	0.438	0.0	0.42	4.36
1443	14.81	7.11	-53	0.446	0.0	0.41	4.36

MW-12s: MW-12s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 5.0 gallons was extracted from the well. The well was evacuated several times throughout the purging activities. Odorous indications of contamination were observed throughout purging activities.

Table 13
Well Purging Data – MW-12s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1107	15.45	7.83	--	0.437	--	2.5	Silty
1110	14.74	7.33	--	0.483	--	3.0	Silty
1113	14.90	6.72	--	0.534	--	4.0	Silty
1117	14.74	6.76	--	0.610	--	5.0	Silty

MW-13s: MW-13s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well. The well was evacuated at 2.0 gallons. No odorous or visual indications of contamination were observed throughout purging activities.

Table 14
Well Purging Data – MW-13s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1201	14.33	7.26	122.7	0.354	8.03	0.25	Silty
1203	13.62	6.80	130.5	0.341	7.17	2.0	Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 14.0. The well was purged and sampled at 400 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 15
Well Purging Data – MW-14s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1250	15.58	6.14	240	0.147	51.0	2.83	9.15
1253	15.75	6.08	245	0.142	22.6	2.75	9.15
1256	15.72	6.05	249	0.140	10.2	2.73	9.15
1259	15.78	6.03	253	0.140	4.3	2.70	9.15
1302	15.71	6.01	257	0.139	0.9	2.70	9.15

MW-15s: MW-15s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 7.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 16
Well Purging Data – MW-15s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1110	13.11	7.63	127.0	0.222	10.54	0.25	Silty
1111	13.42	7.05	126.3	0.229	9.25	1.0	Silty
1112	13.11	6.30	155.1	0.241	9.29	2.0	Silty
1113	12.77	6.00	160.1	0.235	9.17	3.0	Silty
1114	12.52	5.90	159.2	0.244	8.98	4.0	Silty
1115	12.25	5.82	158.4	0.254	8.94	5.0	Silty
1116	12.09	5.81	156.9	0.295	9.00	6.0	Silty
1117	11.66	5.82	156.3	0.268	9.12	7.0	Silty

MW-16s: MW-16s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 1.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 17
Well Purging Data – MW-16s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1146	12.56	6.76	122.6	1.032	5.25	0.25	Clear
1148	11.73	6.78	110.6	1.035	5.46	0.75	Silty
1149	11.52	6.77	108.1	1.048	5.53	1.50	Silty

MW-17s: MW-17s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 23.2'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 7.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 18
Well Purging Data – MW-17s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1131	15.93	6.57	186	0.737	66.5	2.02	17.95
1134	15.68	6.55	174	0.728	28.9	1.94	17.95
1137	16.36	6.57	178	0.740	40.7	2.02	17.95
1140	16.93	6.58	159	0.751	70.0	2.02	17.95
1143	15.93	6.57	168	0.737	89.0	2.02	17.95

MW-1d: MW-1d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 41.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during throughout activities.

Table 19
Well Purging Data – MW-1d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0809	11.10	7.27	--	0.391	--	1.0	Clear
0810	10.90	6.93	--	0.386	--	10.0	Clear
0811	10.84	6.90	--	0.374	--	20.0	Clear
0812	10.87	6.90	--	0.320	--	30.0	Clear
0813	10.82	6.95	--	0.316	--	40.0	Clear

MW-2d: MW-2d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 96.0 gallons was extracted from the well. Odorous indications of contamination were observed throughout purging activities.

Table 20
Well Purging Data – MW-2d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1008	11.78	7.89	--	1.030	--	10.0	Silty
1009	11.65	7.86	--	1.030	--	20.0	Silty
1010	11.66	7.50	--	1.029	--	30.0	Silty
1011	11.73	7.27	--	1.008	--	40.0	Silty
1012	11.82	7.19	--	0.861	--	50.0	Silty
1013	12.04	7.23	--	0.684	--	60.0	Silty
1014	12.51	7.33	--	0.647	--	70.0	Silty
1015	12.94	7.43	--	0.632	--	80.0	Silty
1016	13.39	7.62	--	0.614	--	90.0	Silty

MW-6d: MW-6d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 36.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 21
Well Purging Data – MW-6d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0845	11.54	7.56	--	1.196	--	5.0	Clear
0846	11.36	7.73	--	0.550	--	20.0	Clear
0847	11.39	7.55	--	0.484	--	30.0	Clear

MW-7d: MW-7d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 65.0 gallons was extracted from the well. Slight odorous indications of contamination were observed throughout purging activities.

Table 22
Well Purging Data – MW-7d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0926	12.45	7.72	--	2.296	--	10.0	Cloudy
0927	12.13	8.65	--	0.648	--	20.0	Cloudy
0928	12.15	8.91	--	0.309	--	30.0	Cloudy
0930	12.28	9.06	--	0.197	--	40.0	Cloudy
0932	12.86	8.98	--	0.243	--	50.0	Cloudy
0933	13.16	9.32	--	0.175	--	60.0	Cloudy

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 90.0'. The well was purged and sampled at 210 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 23
Well Purging Data – MW-8d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1332	13.54	7.24	218	0.383	21.1	0.80	71.34
1335	14.42	7.20	206	0.391	7.2	0.70	71.40
1338	14.97	7.16	193	0.396	6.7	0.67	71.40
1341	15.13	7.16	180	0.398	4.1	0.64	71.40
1344	15.27	7.17	165	0.399	0.0	0.60	71.40
1347	15.29	7.19	155	0.399	0.0	0.58	71.40
1350	15.20	7.19	145	0.398	0.0	0.55	71.40

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 490 ml / min. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 24
Well Purging Data – MW-9d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1421	13.32	6.99	244	0.430	0.0	0.69	71.13
1424	12.98	6.99	230	0.433	0.0	0.60	71.13
1427	12.95	6.96	217	0.432	0.0	0.54	71.13
1430	13.10	6.93	204	0.433	0.0	0.49	71.13
1433	12.98	6.92	190	0.431	0.0	0.48	71.13
1436	13.05	6.91	179	0.432	0.0	0.44	71.13

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 100 ml / min. A total of 1.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 25
Well Purging Data – MW-10d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1158	12.90	6.83	179	0.409	0.0	1.29	69.55
1201	13.38	6.82	169	0.413	0.0	1.13	69.73
1204	13.79	6.83	163	0.417	0.0	1.08	69.81
1207	13.69	6.83	156	0.415	0.0	1.06	69.81
1210	14.14	6.84	150	0.419	0.0	1.03	69.81
1213	14.38	6.84	145	0.423	0.0	1.00	69.81

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 380 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 26
Well Purging Data – MW-11d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1248	12.07	7.20	60	0.317	0.0	1.06	73.87
1251	12.00	7.19	21	0.316	0.0	0.85	73.87
1254	12.24	7.20	8	0.316	0.0	0.74	73.87
1257	12.28	7.19	6	0.315	0.0	0.61	73.87
1300	12.29	7.17	7	0.314	0.0	0.59	73.87

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 300 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 1.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 27
Well Purging Data – MW-12d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1613	11.58	7.20	251	0.429	2.5	1.21	65.86
1616	11.62	7.16	242	0.430	0.9	0.96	65.94
1619	11.83	7.12	230	0.432	0.0	0.89	65.94
1622	11.85	7.09	218	0.432	0.0	0.81	65.94
1625	11.87	7.06	204	0.432	0.0	0.76	65.94

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 450 ml / min. The well maintained steady recharge throughout the duration of purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout purging activities.

Table 28
Well Purging Data – MW-13d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1509	12.02	7.61	248	0.292	22.8	0.79	49.94
1512	11.90	7.35	195	0.293	13.1	0.68	49.94
1515	11.85	7.20	118	0.295	10.0	0.60	49.94
1518	11.89	7.20	67	0.293	5.8	0.56	49.94
1521	11.91	7.14	54	0.292	5.7	0.54	49.94

OW-4: OW-4 was purged and sampled utilizing hand bailing methods. A total of 14.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during purging activities.

**Table 29
Well Purging Data – OW-4**

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1405	17.66	6.75	117.0	0.401	1.69	0.25	Cloudy
1406	17.85	6.93	115.9	0.399	2.14	2.0	Cloudy
1407	17.80	7.02	115.2	0.397	2.09	5.0	Cloudy
1408	17.65	7.08	114.7	0.395	2.33	7.0	Cloudy
1409	17.57	7.13	114.6	0.395	2.27	9.0	Cloudy
1410	17.47	7.18	114.2	0.394	2.10	12.0	Cloudy
1411	17.43	7.21	114.4	0.392	1.99	14.0	Cloudy

**Table 30
Final Sample Data Summary**

Location	pH (SU)	Temp. (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth (Feet)
MW1s	6.70	15.64	0.707	2.91	111.1	13.11
MW2s	6.67	14.06	1.678	1.27	-34.1	14.53
MW3s	6.96	15.25	1.270	1.59	-48.6	14.03
MW5s	6.76	14.67	0.491	1.88	130.4	11.97
MW6s	6.87	17.47	1.782	2.35	108.3	11.98
MW12s	7.11	18.22	0.644	6.27	68.7	6.85
MW13s	7.05	13.98	0.371	7.01	147.2	16.82
MW15s	6.41	13.72	0.306	8.74	124.3	15.44
MW16s	7.36	13.80	1.004	6.73	121.2	35.25
MW1d	7.24	11.92	0.362	12.70	135.6	60.70
MW2d	7.56	14.67	0.974	4.03	-14.1	20.27
MW6d	7.54	12.36	0.398	5.49	109.4	69.30
MW7d	8.60	13.35	2.411	8.25	98.4	57.50
OW4	7.21	17.43	0.392	1.99	114.4	2.95

Table 31
Final Sample Data Summary

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
MW4s	19.73	7.19	-48	0.559	13.6	0.56
MW7s	16.44	7.19	188	0.868	0.0	2.96
MW8s	17.48	6.95	169	0.737	10.9	2.40
MW9s	14.33	7.27	179	0.723	0.0	3.91
MW10s	16.31	7.02	202	0.884	0.0	0.77
MW11s	14.81	7.11	-53	0.446	0.0	0.41
MW14s	15.71	6.01	257	0.139	0.9	2.70
MW17s	15.93	6.57	168	0.737	89.0	2.02
MW8d	15.20	7.19	145	0.398	0.0	0.55
MW9d	13.05	6.91	179	0.432	0.0	0.44
MW10d	14.38	6.84	145	0.423	0.0	1.00
MW11d	12.29	7.17	7	0.314	0.0	0.59
MW12d	11.87	7.06	204	0.432	0.0	0.76
MW13d	11.91	7.14	54	0.292	5.7	0.54

Table 32
Final Sample Data Summary

Well #	Date	Time
MW-1s	10.02.13	1444
MW-2s	10.02.13	1533
MW-3s	10.02.13	1558
MW-4s	10.03.13	1536
MW-5s	10.02.13	1450
MW-6s	10.02.13	1435
MW-7s	10.02.13	0843
MW-8s	10.03.13	1019
MW-9s	10.03.13	0924
MW-10s	10.03.13	1405
MW-11s	10.03.13	1445
MW-12s	10.03.13	1320
MW-13s	10.02.13	1254
MW-14s	10.03.13	1304
MW-15s	10.02.13	1229
MW-16s	10.02.13	1247
MW-17s	10.03.13	1145
MW-1d	10.04.13	0857
MW-2d	10.04.13	0946
MW-6d	10.04.13	0913
MW-7d	10.04.13	0930
MW-8d	10.04.13	1352
MW-9d	10.04.13	1438
MW-10d	10.04.13	1215
MW-11d	10.04.13	1302
MW-12d	10.04.13	1627
MW-13d	10.04.13	1523

**Table 32 (cont.)
Final Sample Data Summary**

Well #	Date	Time
SW1	10.02.13	NS
SW2	10.02.13	NS
SW3	10.02.13	NS
SW4	10.02.13	NS
SW5	10.02.13	NS
SW6	10.02.13	NS
FB1	10.02.13	1605
FB2	10.03.13	1550
FB3	10.04.13	1640
OW-4	10.02.13	1413
Effluent-1	10.03.13	1040
Effluent-2	10.03.13	1542

NS= Not Sampled

**Table 33
Staff Gauge Data Summary**

Staff Gauge #	Height
SG-1	Dry
SG-2	Dry

Day 1 Onsite: 0815
Day 1 Offsite: 1615

Day 2 Onsite: 0730
Day 2 Offsite: 1555

Day 3 Onsite: 0845
Day 3 Offsite: 1720

SN/rh

Field Notes

TO: File
FROM: Ray Hanley
DATE: February 3 – 6, 2014
PROJECT: Lewis Brothers Garage Property
PROJECT NUMBER: 27058
SUBJECT: Groundwater Sampling Activities

0735: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations well located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater-monitoring wells and one (1) of the four (4) observations wells. The general well information is as follows:

Table 1
General Well Information
Wells Sampled via Low Flow / Low Stress Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	Pump Depth (Feet)	Pump Rate (L/min)	Purged (Gallons)
MW-1s	--	21.95	--	NA	--
MW-4s	8.96	24.90	16.9	0.10	1.0
MW-7s	14.41	27.51	21.0	0.49	2.5
MW-8s	8.48	23.52	16.0	0.30	2.0
MW-9s	23.62	39.10	31.4	0.49	2.0
MW-10s	7.58	18.53	13.0	0.15	2.5
MW-11s	2.87	23.54	13.2	0.25	1.5
MW-14s	7.63	19.85	13.7	0.27	2.0
MW-16s	--	37.67	--	NA	--
MW-17s	16.66	29.20	22.9	0.35	2.0
MW-8d	68.41	100.00	90.0	0.30	4.0
MW-9d	69.60	172.00	162.0	0.46	4.5
MW-10d	66.65	186.00	176.0	0.11	4.0
MW-11d	72.00	128.00	119.0	0.46	3.5
MW-12d	63.96	201.00	191.0	0.45	3.5
MW-13d	48.44	182.00	172.0	0.44	3.5

Notes:

1. MW-1s could not be located due to the presence of thick ice piles in the area of the well.
2. The manway associated with MW-16s was compromised and the well could not be accessed.
3. No surface water samples were collected. There was no flow due to prolonged freezing temperatures.

Table 2
General Well Information
Wells Sampled via Hand-Bailing Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	1 Volume (Gallons)	3 Volumes (Gallons)	Purged (Gallons)
MW-2s	13.42	29.60	2.7	8.1	9.0
MW-3s	12.20	28.00	2.8	8.4	9.0
MW-5s	9.74	21.31	1.9	5.7	10.0
MW-6s	10.29	15.20	0.8	2.4	2.0
MW-12s	4.98	19.97	2.5	7.5	6.0
MW-13s	14.89	18.18	2.1	6.3	4.0
MW-15s	7.63	19.13	1.9	5.7	7.0
MW-1d	40.80	68.60	40.9	122.7	54.0
MW-2d	13.89	78.70	95.3	285.9	114.0
MW-6d	57.02	85.20	41.5	124.2	44.0
MW-7d	20.70	60.40	58.4	175.2	70.0
OW-1	4.17	11.58	--	--	--
OW-2	4.88	10.98	--	--	--
OW-3	4.02	10.92	---	--	--
OW-4	3.33	9.95	4.3	12.9	13.0

MW-1s: MW-1s was not found and therefore not sampled.

MW-2s: Due to the historical presence of Separate Phase Liquid (0.00'), MW-2 was purged utilizing hand bailing methods. A total of 9.0 gallons was extracted from the well after the removal of all SPL. Strong odorous and visual indications of contamination were observed throughout the purging activities. Note, static water level was corrected for the presence of SPL.

Table 3
Well Purging Data – MW-2s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O.* (mg/L)	Gallons	Comment
1532	9.04	7.02	-38.5	1.766	--	0.25	Silty
					--	1.0	Silty
1534	10.80	7.06	-44.8	2.194	--	2.0	Silty
1536	10.72	7.14	-55.6	1.933	--	3.0	Silty
					--	4.0	Silty
1539	10.92	7.17	-55.9	1.883	--	5.0	Silty
1540	11.07	7.19	-57.7	1.769	--	6.0	Silty
1542	11.46	7.19	-61.5	1.741	--	7.0	Silty
1543	11.45	7.18	-63.9	1.741	--	8.0	Silty
1544	11.49	7.21	-70.2	1.692	--	9.0	Silty

(*) Probe fouled and erroneous readings obtained.

MW-3s: Due to the presence of Separate Phase Liquid (0.8'), MW-3s was purged utilizing hand bailing methods. A total of 9.0 gallons was extracted from the well after the removal of all SPL. The well maintained a steady recharge throughout the completion of the purging activities. Odorous and visual indications of contamination were observed throughout the purging activities. Note, static water level was corrected for the presence of SPL.

Table 4
Well Purging Data – MW-3s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O.* (mg/L)	Gallons	Comment
1510	9.16	7.44	-71.3	0.829	--	0.25	Silty
1512	10.22	7.32	-77.2	0.900	--	1.0	Silty
1514	10.51	7.52	-76.8	1.081	--	2.0	Silty
1516	10.71	7.25	-70.0	1.233	--	3.0	Silty
1518	10.79	7.23	-69.5	1.271	--	4.0	Silty
1519	10.99	7.26	-70.6	1.321	--	5.0	Silty
1519	10.96	7.27	-67.2	1.317	--	6.0	Silty
1520	10.94	7.27	-65.6	1.312	--	7.0	Silty
1521	11.03	7.26	-62.2	1.339	--	8.0	Silty
1522	11.10	7.26	-67.8	1.355	--	9.0	Silty

(*) Probe fouled and erroneous readings obtained.

MW-4s: MW-4s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 16.9'. The well was purged and sampled at 100 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. 1.0 gallon was extracted from the well. Odorous indications of contamination were observed throughout the purging activities.

Table 5
Well Purging Data – MW-4s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1441	6.66	7.40	-14	0.593	16.6	1.76	9.61
1444	7.04	7.47	-27	0.575	6.4	1.11	9.79
1447	6.69	7.50	-31	0.546	2.3	0.96	9.79
1450	6.64	7.52	-34	0.532	0.0	0.93	9.79

MW-5s: MW-5s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 6
Well Purging Data – MW-5s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1149	10.1	6.44	--	0.817	--	0.25	Silty
1151	9.5	6.40	--	0.821	--	1.0	Silty
1152	10.1	6.39	--	0.800	--	2.0	Silty
1153	9.9	6.45	--	0.781	--	3.0	Silty
1154	10.2	6.47	--	0.783	--	4.0	Silty
1155	10.3	6.50	--	0.775	--	5.0	Silty
1156	10.5	6.52	--	0.781	--	6.0	Silty
1157	10.8	6.55	--	0.746	--	7.0	Silty
1158	10.5	6.54	--	0.774	--	8.0	Silty
1159	10.7	6.55	--	0.756	--	9.0	Silty
1200	10.6	6.55	--	0.761	--	10.0	Silty

MW-6s: MW-6s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 7
Well Purging Data – MW-6s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1132	10.1	6.41	--	2.35	--	0.25	Silty
1133	9.9	6.53	--	2.40	--	1.0	Silty
1135	10.3	6.57	--	2.34	--	2.0	Silty

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 21.0'. The well was purged and sampled at 490 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 8
Well Purging Data – MW-7s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1249	10.83	7.36	201	1.13	12.0	5.39	14.93
1252	11.44	7.39	188	1.13	28.4	5.13	14.96
1255	11.58	7.40	181	1.12	35.2	4.97	14.96
1258	11.64	7.40	176	1.11	34.6	4.81	14.96
1301	11.80	7.40	173	1.10	34.1	4.70	14.96

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 16.0'. The well was purged and sampled at 300 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 9
Well Purging Data – MW-8s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1131	6.77	7.18	207	0.760	0.0	7.92	9.86
1134	7.17	7.18	198	0.766	0.0	7.68	10.00
1137	6.90	7.17	192	0.762	0.0	7.67	10.04
1140	7.22	7.17	188	0.775	0.0	7.34	10.04
1143	6.82	7.17	184	0.765	0.0	7.25	10.04

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 31.4'. The well was purged and sampled at 490 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 10
Well Purging Data – MW-9s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1021	9.88	7.11	170	0.693	0.0	5.84	24.24
1024	10.65	7.26	147	0.706	0.0	5.78	24.37
1027	10.58	7.31	140	0.716	0.0	5.77	24.37
1030	10.67	7.36	136	0.717	0.0	5.72	24.37

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.0'. The well was purged and sampled at 150 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 11
Well Purging Data – MW-10s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1246	8.62	7.14	146	0.644	0.0	4.65	8.22
1249	8.95	7.12	148	0.650	0.0	4.58	8.35
1252	9.11	7.11	151	0.653	0.0	4.58	8.35
1255	9.14	7.11	153	0.653	0.0	4.56	8.35
1258	9.15	7.11	155	0.654	0.0	4.57	8.35

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.2'. The well was purged and sampled at 250 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 1.5 gallons was extracted from the well. Odorous indications of contamination were observed throughout the purging activities.

Table 12
Well Purging Data – MW-11s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1346	6.84	7.51	-35	0.454	19.7	1.19	3.27
1349	7.05	7.44	-38	0.457	27.1	0.95	3.27
1352	7.46	7.38	-39	0.464	25.6	0.84	3.27
1355	7.72	7.33	-39	0.469	26.6	0.77	3.27
1358	7.55	7.30	-40	0.467	23.8	0.74	3.27

MW-12s: MW-12s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 6.0 gallons was extracted from the well. Odorous indications of contamination were observed throughout the purging activities.

Table 13
Well Purging Data – MW-12s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0901	6.1	6.90	--	0.292	--	0.25	Silty
0902	8.1	6.67	--	0.329	--	1.0	Silty
0903	8.4	6.67	--	0.372	--	2.0	Silty
0910	9.5	6.33	--	0.347	--	3.0	Silty
0913	10.2	6.70	--	0.344	--	4.0	Silty
0915	10.1	6.71	--	0.455	--	5.0	Silty
0917	10.2	6.70	--	0.551	--	6.0	Silty

MW-13s: MW-13s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 4.0 gallons was extracted from the well. The well was evacuated at 4.0 gallons. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 14
Well Purging Data – MW-13s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1000	9.8	6.83	--	0.314	--	0.25	Silty
1002	10.8	6.57	--	0.328	--	1.0	Silty
1003	11.0	6.57	--	0.355	--	2.0	Silty
1004	10.6	6.62	--	0.376	--	3.0	Silty
1006	10.9	6.62	--	0.415	--	4.0	Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.7. The well was purged and sampled at 270 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 15
Well Purging Data – MW-14s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0926	7.29	6.53	194	0.131	--	5.18	8.58
0929	7.54	6.48	195	0.145	--	4.94	8.58
0932	8.10	6.48	195	0.153	--	4.85	8.58
0935	8.30	6.45	197	0.145	--	4.84	8.58
0938	8.40	6.39	203	0.138	--	4.80	8.58
0941	8.60	6.35	209	0.134	--	4.80	8.58

MW-15s: MW-15s had insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 7.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 16
Well Purging Data – MW-15s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0829	7.8	6.71	--	0.352	--	0.25	Silty
0831	8.3	6.78	--	0.304	--	1.0	Very Silty
0833	8.3	6.72	--	0.310	--	2.0	Very Silty
0835	8.3	6.72	--	0.328	--	3.0	Silty
0837	8.3	6.75	--	0.335	--	4.0	Silty
0839	8.4	6.69	--	0.346	--	5.0	Silty
0841	8.7	6.81	--	0.352	--	6.0	Silty
0843	8.8	6.82	--	0.336	--	7.0	Silty

MW-16s: MW-16s was found to be damaged and could not be opened. MW-16s was not sampled during the February 2014 sampling event.

MW-17s: MW-17s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 22.9'. The well was purged and sampled at 350 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 17
Well Purging Data – MW-17s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0830	9.33	6.74	166	0.661	--	3.04	17.25
0833	9.85	6.66	162	0.675	--	2.76	17.28
0836	10.10	6.63	162	0.680	--	2.61	17.28
0839	10.27	6.61	164	0.683	--	2.50	17.28
0842	10.45	6.58	168	0.688	--	2.45	17.29

MW-1d: MW-1d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 45.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during throughout the purging activities.

Table 18
Well Purging Data – MW-1d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0846	9.10	8.12	145.6	0.421	20.00	2.0	Silty
0847	9.25	7.91	149.7	0.402	20.13	5.0	Silty
0848	10.20	7.86	149.0	0.384	17.38	10.0	Silty
0851	10.53	7.84	145.6	0.384	17.20	15.0	Silty
0853	10.78	7.82	144.4	0.376	15.58	20.0	Silty
0854	10.77	7.86	140.8	0.370	14.54	25.0	Silty
0856	10.77	7.91	137.7	0.364	13.16	30.0	Silty
0858	11.33	7.99	134.1	0.358	16.66	35.0	Silty
0900	11.02	8.06	132.1	0.355	12.70	40.0	Silty
0901	10.53	8.08	132.6	0.354	11.88	45.0	Silty

MW-2d: MW-2d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 110.0 gallons was extracted from the well. Strong odorous indications of contamination were observed throughout the purging activities.

Table 19
Well Purging Data – MW-2d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1155	7.89	9.31	-16.1	1.417	4.32	0.25	Cloudy
1156	10.48	7.72	-95.4	1.097	2.48	10.0	Cloudy
1157	10.95	7.49	-97.4	1.047	2.34	20.0	Cloudy
1158	11.23	7.42	-89.2	1.038	2.74	30.0	Cloudy
1159	11.35	7.39	-100.7	1.037	1.94	40.0	Cloudy
1200	11.54	7.37	-96.5	1.024	2.12	50.0	Cloudy
1201	11.91	7.38	-104.1	0.932	1.72	60.0	Cloudy
1202	12.01	7.48	-90.7	0.753	2.37	70.0	Cloudy
1203	12.16	7.53	-97.8	0.704	1.74	75.0	Cloudy
1204	12.30	7.57	-93.3	0.679	1.88	80.0	Cloudy
1205	12.27	7.60	-85.7	0.662	2.33	85.0	Cloudy
1206	12.22	7.61	-85.1	0.649	2.52	90.0	Cloudy
1218	12.03	7.55	-87.7	0.645	1.23	95.0	Cloudy
1219	11.96	7.57	-97.0	0.645	1.36	100.0	Cloudy
1220	11.90	7.59	-101.3	0.649	1.66	105.0	Cloudy
1221	11.83	7.59	-91.5	0.680	2.10	110.0	Cloudy

MW-6d: MW-6d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 40.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 20
Well Purging Data – MW-6d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0942	8.01	8.07	128.8	0.603	9.62	0.25	Silty
0943	9.77	8.22	118.3	1.033	7.96	5.0	Silty
0944	10.70	8.46	111.6	1.005	8.99	10.0	Silty
0945	10.78	8.51	107.6	0.931	6.90	15.0	Silty
0946	11.07	8.48	102.4	0.876	6.65	20.0	Silty
0946	11.11	8.42	94.7	0.803	6.43	25.0	Silty
0947	11.21	8.35	82.0	0.725	6.42	30.0	Silty
0947	11.14	8.27	63.0	0.681	5.42	35.0	Silty
0948	11.15	8.24	50.1	0.634	4.93	40.0	Silty

MW-7d: MW-7d was not suited for low flow/ low stress sampling methods. The well was pumped until evacuated and sampled upon recharge. A total of 70.0 gallons was extracted from the well. Odorous indications of contamination were observed throughout the purging activities.

Table 21
Well Purging Data – MW-7d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1048	6.53	9.31	56.2	5.070	3.26	0.25	S. Silty
1048	10.12	9.36	28.7	6.035	1.29	5.0	Black
1049	11.21	9.47	12.0	6.162	1.60	10.0	V. Cloudy
1050	11.25	9.55	1.6	6.147	2.11	15.0	V. Cloudy
1051	11.91	9.57	-9.8	6.102	2.23	20.0	C. Cloudy
1052	11.01	9.59	-21.7	6.099	2.01	25.0	Cloudy
1053	12.03	9.59	-30.8	6.094	1.98	30.0	Cloudy
1054	11.93	9.61	-43.6	6.096	1.66	35.0	Cloudy
1055	12.59	9.63	-54.7	6.097	1.45	40.0	Clear
1056	12.34	9.64	-62.8	6.104	1.33	45.0	Clear
1057	12.36	9.69	-70.1	6.042	1.42	50.0	Clear
1058	12.30	9.80	-75.2	6.058	1.53	55.0	Clear
1059	11.99	10.00	-74.3	5.980	1.87	60.0	Cloudy
1100	12.49	10.14	-75.8	5.940	1.54	65.0	Cloudy
1101	12.27	10.15	-74.3	5.959	1.60	70.0	Cloudy

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 90.0'. The well was purged and sampled at 300 ml / min. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 22
Well Purging Data – MW-8d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0927	11.37	7.82	138	0.428	0.0	0.58	69.85
0930	11.34	7.83	116	0.428	0.0	0.56	70.03
0933	10.46	7.88	97	0.418	0.0	0.55	69.95
0936	9.91	7.89	83	0.412	0.0	0.57	69.85
0939	10.19	7.87	71	0.420	0.0	0.57	69.80
0942	10.76	7.85	60	0.425	0.0	0.55	69.80
0945	10.93	7.84	50	0.425	0.0	0.54	69.80
0948	11.01	7.83	41	0.424	0.0	0.53	69.80
0951	11.11	7.83	34	0.425	0.0	0.52	69.80
0954	11.11	7.83	29	0.425	0.0	0.52	69.80

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 460 ml / min. A total of 4.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 23
Well Purging Data – MW-9d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0820	9.26	7.49	192	0.541	0.0	2.65	69.22
0823	9.47	7.50	168	0.541	0.0	2.39	69.22
0826	9.68	7.50	147	0.540	0.0	2.19	69.22
0829	9.69	7.50	132	0.536	0.0	2.01	69.22
0832	9.62	7.50	121	0.532	0.0	1.87	69.22
0835	9.71	7.50	113	0.529	0.0	1.72	69.22
0838	9.84	7.50	107	0.526	0.0	1.59	69.22
0841	9.88	7.50	102	0.523	0.0	1.48	69.22
0844	9.99	7.49	100	0.522	0.0	1.40	69.22

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 176.0'. The well was purged and sampled at 110 ml / min. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 24
Well Purging Data – MW-10d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1226	9.42	7.53	64	0.442	0.0	0.62	70.05
1229	9.23	7.53	60	0.439	0.0	0.64	70.32
1232	9.09	7.53	56	0.438	0.0	0.65	70.32
1235	8.97	7.52	53	0.437	0.0	0.65	70.32
1238	8.99	7.52	51	0.437	0.0	0.65	70.32

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 380 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 25
Well Purging Data – MW-11d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1325	9.94	7.69	119	0.339	0.0	2.60	72.56
1328	10.13	7.68	109	0.341	0.0	2.62	72.58
1331	10.22	7.68	102	0.341	0.0	2.57	72.58
1334	10.38	7.68	97	0.342	0.0	2.44	72.58
1337	10.49	7.67	94	0.343	0.0	2.32	72.58
1340	10.50	7.67	91	0.344	0.0	2.23	72.58
1343	10.55	7.67	87	0.344	0.0	2.15	72.58

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 450 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 26
Well Purging Data – MW-12d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1416	8.69	7.67	140	0.467	0.0	1.19	64.17
1419	8.89	7.66	122	0.471	0.0	1.01	64.18
1422	9.05	7.66	104	0.473	0.0	0.88	64.18
1425	9.20	7.66	90	0.474	0.0	0.80	64.18
1428	9.29	7.65	78	0.474	0.0	0.74	64.18
1431	9.29	7.65	69	0.475	0.0	0.71	64.18
1434	9.35	7.65	65	0.475	0.0	0.69	64.18

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 440 ml / min. The well maintained a steady recharge throughout the duration of the purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed throughout the purging activities.

Table 27
Well Purging Data – MW-13d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1037	8.70	7.77	119	0.311	0.0	0.84	48.61
1040	8.66	7.73	95	0.311	0.0	0.78	48.62
1043	8.75	7.71	71	0.311	0.0	0.73	48.62
1046	8.85	7.70	62	0.312	0.0	0.72	48.62
1049	8.88	7.68	54	0.313	0.0	0.71	48.62
1052	8.76	7.67	48	0.311	0.0	0.70	48.62
1055	8.84	7.67	43	0.313	0.0	0.69	48.62
1058	8.86	7.66	40	0.313	0.0	0.68	48.62

OW-4: OW-4 was purged and sampled utilizing hand bailing methods. A total of 13.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed during the purging activities.

Table 28
Well Purging Data – OW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1300	6.9	6.85	--	0.444	--	0.25	Clear
1301	7.1	7.18	--	0.458	--	2.5	Clear
1303	7.1	7.28	--	0.460	--	5.0	Clear
1304	7.0	7.43	--	0.459	--	7.5	Clear
1307	7.0	7.54	--	0.458	--	10.0	Clear
1308	7.0	7.61	--	0.457	--	13.0	Clear

Table 29
Final Sample Data Summary
Wells Sampled via Hand-Bailing Techniques

Location	pH (SU)	Temp. (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth (Feet)
MW2s	7.21	11.49	1.692	--	-70.2	13.89
MW3s	7.26	11.10	1.355	--	-67.8	12.50
MW5s	6.55	10.6	0.761	--	--	14.18
MW6s	6.92	5.03	1.53	5.85	316	10.41
MW12s	7.05	7.13	0.557	8.06	188	7.73
MW13s	6.92	7.70	0.324	9.17	207	16.95
MW15s	7.00	7.3	3.41	--	--	14.14
MW1d	8.04	9.70	0.334	10.13	221	60.85
MW2d	8.11	10.27	0.868	3.31	-25	21.30
MW6d	8.02	9.31	0.421	4.34	228	67.90
MW7d	7.68	9.35	3.94	3.08	155	58.25
OW4	7.38	3.51	0.298	4.88	283	3.36

Table 30
Final Sample Data Summary
Wells Sampled via Low Flow / Low Stress Techniques

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
MW4s	6.64	7.52	-34	0.532	0.0	0.93
MW7s	11.80	7.40	173	1.10	34.1	4.70
MW8s	6.82	7.17	184	0.765	0.0	7.25
MW9s	10.67	7.36	136	0.717	0.0	5.72
MW10s	9.15	7.11	155	0.654	0.0	4.57
MW11s	7.55	7.30	-40	0.467	23.8	0.74
MW14s	8.60	6.35	209	0.134	--	4.80
MW17s	10.45	6.58	168	0.688	--	2.45
MW8d	11.11	7.83	29	0.425	0.0	0.52
MW9d	9.99	7.49	100	0.522	0.0	1.40
MW10d	8.99	7.52	51	0.437	0.0	0.65
MW11d	10.55	7.67	87	0.344	0.0	2.15
MW12d	9.35	7.65	65	0.475	0.0	0.69
MW13d	8.86	7.66	40	0.313	0.0	0.68

Table 31
Metals Data Summary Table

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-4s	5.6	0.56	0.8	3
MW-7s	0.0	0.00	1.8	11
MW-8s	0.0	0.00	1.3	17
MW-9s	0.0	0.00	1.4	17
MW-10s	0.2	0.04	1.7	11
MW-11s	7.6	1.90	2.2	0
MW-8d	2.8	0.00	1.7	6
MW-9d	0.0	0.24	0.5	5
MW-10d	0.1	0.08	0.8	10
MW-11d	0.0	0.16	3.8	6
MW-12d	0.0	0.00	1.8	16
MW-13d	0.0	0.00	0.9	5

Table 32
Final Sample Data Summary

Well #	Date	Time
MW-1s	NS	NS
MW-2s	02.06.14	1546
MW-3s	02.06.14	1523
MW-4s	02.06.14	1452
MW-5s	02.03.14	1203
MW-6s	02.03.14	1335
MW-7s	02.06.14	1303
MW-8s	02.06.14	1145
MW-9s	02.06.14	1032
MW-10s	02.04.14	1201
MW-11s	02.06.14	1400
MW-12s	02.03.14	1025
MW-13s	02.03.14	1033
MW-14s	02.06.14	0943
MW-15s	02.03.14	0909
MW-16s	NS	NS
MW-17s	02.06.14	0844
MW-1d	02.05.14	1030
MW-2d	02.05.14	1120
MW-6d	02.05.14	1045
MW-7d	02.05.14	1100
MW-8d	02.04.14	0957
MW-9d	02.04.14	0847
MW-10d	02.04.14	1241
MW-11d	02.04.14	1346
MW-12d	02.04.14	1437
MW-13d	02.04.14	1102

**Table 32 (cont.)
Final Sample Data Summary**

Well #	Date	Time
SW1	NS	NS
SW2	NS	NS
SW3	NS	NS
SW4	NS	NS
SW5	NS	NS
SW6	NS	NS
FB1	02.03.14	1445
FB2	02.04.14	1442
FB3	02.06.14	1600
OW-1	NS	NS
OW-2	NS	NS
OW-3	NS	NS
OW-4	02.03.14	1312
Effluent-1	02.03.14	1215
Effluent-2	02.03.14	1515

NS= Not Sampled

*Surface Water was frozen and not sampled

**Table 33
Staff Gauge Data Summary**

Staff Gauge #	Height
SG-1	NM
SG-2	NM

NM = Not Measured due to snow cover and stream being frozen

Day 1 Onsite: 0735
Day 1 Offsite: 1505

Day 2 Onsite: 0745
Day 2 Offsite: 1530

Day 3 Onsite: 0750
Day 3 Offsite: 1615

SN/rh

Field Notes

TO: File
FROM: Kevin Cucura
DATE: June 2 – 4, 2014
PROJECT: Lewis Brothers Garage Property
PROJECT NUMBER: 27058
SUBJECT: Groundwater Sampling Activities

0635: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations well located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater-monitoring wells and one (1) of the four (4) observations wells. The general well information is as follows:

Table 1
General Well Information
Wells Sampled via Low Flow / Low Stress Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	Pump Depth (Feet)	Pump Rate (L/min)	Purged (Gallons)
MW-7s	13.15	27.51	20.3	0.27	2.0
MW-8s	6.68	23.52	15.1	0.18	2.0
MW-9s	22.34	39.10	30.7	0.26	2.0
MW-10s	6.45	18.53	12.5	0.18	2.0
MW-11s	1.85	23.54	12.7	0.29	1.5
MW-14s	7.19	19.85	13.5	0.35	3.0
MW-8d	68.37	100.00	90.0	0.29	2.5
MW-9d	69.39	172.00	162.0	0.41	4.5
MW-10d	66.43	186.00	176.0	0.15	2.0
MW-11d	72.59	128.00	119.0	0.46	3.0
MW-12d	64.38	201.00	191.0	0.45	4.0
MW-13d	48.76	182.00	172.0	0.45	3.5

Table 2
General Well Information
Wells Sampled via Hand-Bailing Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	1 Volume (Gallons)	3 Volumes (Gallons)	Purged (Gallons)
MW-1s	10.26	21.95	2.0	6.0	9.0
MW-2s	12.18	29.60	2.9	8.7	9.0
MW-3s	10.97	28.00	2.8	8.4	9.0
MW-4s	7.48	24.90	2.9	8.7	8.0
MW-5s	8.59	21.31	2.1	6.3	10.0
MW-6s	8.89	15.20	1.1	3.3	2.5
MW-12s	4.10	19.97	2.7	8.1	7.0
MW-13s	14.68	18.18	2.3	6.9	4.0
MW-15s	5.15	19.13	2.3	6.9	7.0
MW-16s	32.73	37.67	0.8	2.4	1.5
MW-17s	16.05	29.20	2.2	6.6	7.0
MW-1d	40.65	68.60	41.1	123.3	50.0
MW-2d	14.16	78.70	95.0	285.0	114.0
MW-6d	57.17	85.20	41.2	123.6	46.0
MW-7d	19.37	60.40	41.0	123.0	72.0
OW-1	3.02	11.58	--	--	--
OW-2	2.37	10.98	--	--	--
OW-3	2.15	10.92	--	--	--
OW-4	1.48	9.95	5.5	16.5	17.5

MW-1s: MW-1s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 9.0 gallons was extracted from the well. The well was nearly evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 3
Well Purging Data – MW-1s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1107	9.54	7.22	125.3	0.929	6.00	0.25	Silty
1108	9.32	6.88	128.7	0.923	5.31	1.0	Silty
1109	9.08	6.65	128.1	0.926	4.37	2.0	Silty
1110	9.03	6.59	125.7	0.942	4.78	3.0	Silty
1111	8.72	6.57	122.9	0.949	4.63	4.0	Silty
1112	8.89	6.56	119.1	0.930	4.58	5.0	Silty
1113	8.76	6.53	117.2	0.918	4.81	6.0	Silty
1114	8.69	6.50	116.3	0.921	5.62	7.0	Silty
1115	8.89	6.47	117.2	0.905	5.85	8.0	Silty
1116	8.92	6.20	134.7	0.893	6.61	9.0	Silty

MW-2s: Due to the historical presence of Separate Phase Liquid, MW-2 was purged and sampled utilizing hand bailing methods. A total of 9.0 gallons was extracted from the well. Strong odorous and visual indications of contamination were observed during the purging activities.

Table 4
Well Purging Data – MW-2s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1253	11.98	7.07	-67.6	2.728	4.82	0.25	Clear
1255	11.59	6.99	-66.6	2.530	3.47	2.0	Cloudy
1257	10.91	7.00	-70.8	2.222	3.63	3.0	Silty
1258	10.90	6.99	-72.0	2.146	3.33	4.0	Silty
1259	11.22	6.98	-73.0	2.097	3.02	5.0	Silty
1300	11.32	6.95	-76.4	2.027	2.91	6.0	Silty
1302	11.18	6.97	-81.1	1.915	2.87	7.0	Silty
1303	11.01	6.98	-78.7	2.006	2.82	8.0	Silty
1305	11.45	6.90	-75.2	1.940	2.76	9.0	Silty

MW-3s: Due to the presence of Separate Phase Liquid (0.01'), MW-3s was purged and sampled utilizing hand bailing methods. A total of 9.0 gallons was extracted from the well after the removal of all SPL. Strong odorous and visual indications of contamination were observed during the purging activities. Note, the static water level was corrected for the presence of SPL.

Table 5
Well Purging Data – MW-3s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1318	11.59	7.51	-67.7	1.241	4.48	0.25	Cloudy
1319	11.21	7.21	-50.2	1.373	3.31	1.0	Silty
1320	11.74	6.99	-57.0	1.405	2.51	2.0	Silty
1324	11.14	6.92	-45.2	1.640	2.88	4.0	Silty
1325	11.10	6.93	-43.5	1.677	2.57	5.0	Silty
1326	10.90	6.88	-42.5	1.655	2.65	6.0	Silty
1328	10.52	6.85	-44.5	1.677	2.33	7.0	Silty
1329	10.59	6.83	-49.4	1.682	2.38	8.0	Silty
1330	10.57	6.88	-53.2	1.696	2.51	9.0	Silty

MW-4s: MW-4s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous and visual indications of contamination were observed.

Table 6
Well Purging Data – MW-4s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1212	11.31	7.34	-96.7	1.506	6.65	0.25	Very Silty
1213	11.09	7.40	-72.6	0.673	5.90	1.0	Very Silty
1214	10.19	7.21	-76.9	1.263	5.30	3.0	Very Silty
1215	10.45	7.18	-81.0	1.274	4.80	5.0	Very Silty
1216	9.95	7.19	-81.7	1.214	4.98	6.0	Very Silty
1217	10.29	7.18	-77.6	1.407	7.89	7.0	Very Silty
1218	10.17	7.56	-88.8	1.474	6.23	8.0	Very Silty

MW-5s: MW-5s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 10.0 gallons was extracted from the well. The well was nearly evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 7
Well Purging Data – MW-5s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1124	10.17	7.22	110.3	1.101	4.20	0.25	Silty
1125	9.70	6.86	115.6	1.024	3.80	1.0	Silty
1125	9.30	6.59	118.8	1.087	3.36	2.0	Silty
1126	9.33	6.49	117.8	1.021	3.80	4.0	Silty
1128	9.32	6.44	117.1	0.999	3.47	5.0	Silty
1129	9.30	6.43	115.1	0.981	3.66	6.0	Silty
1130	9.28	6.41	115.7	0.969	3.90	7.0	Silty
1131	9.09	6.37	118.3	0.961	3.72	8.0	Silty
1132	9.12	6.30	121.3	0.950	3.71	9.0	Silty
1133	9.11	6.19	122.7	0.959	3.52	10.0	Silty

MW-6s: MW-6s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 8
Well Purging Data – MW-6s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1053	10.93	6.85	113.5	2.013	8.81	0.25	Silty
1054	10.11	6.70	118.9	2.116	7.92	1.0	Silty
1055	9.89	6.63	118.8	2.049	7.41	2.0	Silty
1057	9.81	6.63	118.3	2.041	8.01	2.5	Silty

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 20.3'. The well was purged and sampled at 270 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 9
Well Purging Data – MW-7s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0957	12.67	7.00	217	0.959	0.9	7.07	13.54
1000	13.12	6.99	212	0.968	0.3	6.53	13.55
1003	13.31	6.98	207	0.972	0.0	6.64	13.55
1006	13.64	6.97	201	0.977	0.0	6.39	13.55
1009	13.71	6.96	197	0.978	0.0	6.38	13.55
1012	13.74	6.96	193	0.978	0.0	6.42	13.55

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.1'. The well was purged and sampled at 180 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 10
Well Purging Data – MW-8s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0904	10.91	6.86	213	0.571	2.1	6.14	7.34
0907	11.33	6.82	211	0.574	2.6	5.80	7.51
0910	11.82	6.80	208	0.575	0.0	5.50	7.63
0913	12.38	6.79	205	0.573	0.0	4.77	7.67
0916	12.68	6.79	203	0.574	0.0	4.63	7.67
0919	12.85	6.78	200	0.570	0.0	4.20	7.67
0922	12.94	6.78	198	0.570	0.0	4.03	7.67
0925	13.00	6.78	197	0.570	0.0	4.06	7.67
0928	13.09	6.78	196	0.570	0.0	3.86	7.67

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 30.7'. The well was purged and sampled at 260 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 11
Well Purging Data – MW-9s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1040	13.00	7.18	199	0.669	1.5	5.93	22.73
1043	13.54	7.13	191	0.673	0.6	5.65	22.78
1046	13.79	7.11	183	0.674	2.1	5.62	22.81
1049	13.98	7.09	176	0.679	1.0	5.64	22.81
1052	14.29	7.07	170	0.684	0.9	5.61	22.81
1055	14.37	7.07	165	0.688	0.8	5.58	22.81
1058	14.47	7.06	163	0.690	0.2	5.57	22.81

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.7'. The well was purged and sampled at 180 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Slight odorous indications of contamination were observed.

Table 12
Well Purging Data – MW-10s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1307	10.58	6.82	239	0.650	0.4	4.29	6.96
1310	10.82	6.78	233	0.653	0.0	4.12	7.13
1313	11.28	6.76	227	0.657	0.0	4.06	7.21
1316	11.65	6.75	221	0.662	0.0	3.98	7.21
1319	11.89	6.73	215	0.664	0.0	3.97	7.21
1322	12.11	6.72	211	0.665	0.0	3.97	7.21
1325	12.27	6.71	208	0.666	0.0	3.90	7.21

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.7'. The well was purged and sampled at 290 ml / min. The well maintained steady recharge during the purging activities. A total of 1.5 gallons was extracted from the well. Odorous and visual indications of contamination were observed.

Table 13
Well Purging Data – MW-11s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1347	13.24	7.06	-41	0.437	5.7	0.86	2.18
1350	12.78	6.99	-61	0.441	4.7	0.65	2.19
1353	10.77	6.95	-69	0.444	3.3	0.59	2.19
1356	10.87	6.94	-73	0.444	2.7	0.52	2.19
1359	11.08	6.92	-76	0.446	2.3	0.50	2.19
1402	11.21	6.91	-78	0.447	1.9	0.51	2.19
1405	11.40	6.90	-79	0.448	1.7	0.46	2.19

MW-12s: MW-12s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 7.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

**Table 14
Well Purging Data – MW-12s**

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1015	12.37	6.24	167.7	0.443	6.23	0.25	Clear
1018	11.52	6.28	161.1	0.489	4.44	2.0	Silty
1020	10.05	6.41	153.3	0.511	5.66	3.0	Silty
1022	10.04	6.44	148.3	0.501	5.85	4.0	Silty
1025	9.80	6.36	146.2	0.499	6.77	5.0	Silty
1028	9.73	6.39	129.3	0.590	5.10	6.0	Silty
1030	9.74	6.44	120.5	0.594	6.40	7.0	Silty

MW-13s: MW-13s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 4.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

**Table 15
Well Purging Data – MW-13s**

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1036	10.60	6.60	126.6	0.400	11.50	0.25	Silty
1037	10.48	6.41	133.2	0.387	9.30	2.0	Silty
1039	9.97	6.40	136.3	0.391	9.77	4.0	Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.5'. The well was purged and sampled at 350 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

**Table 16
Well Purging Data – MW-14s**

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1428	10.94	6.06	209	0.122	159	4.72	8.28
1431	11.42	6.04	211	0.123	121	4.64	8.28
1434	11.46	5.99	214	0.117	66.0	4.63	8.28
1437	11.51	5.94	219	0.113	39.9	4.63	8.28
1440	11.57	5.89	225	0.109	21.0	4.60	8.28

MW-15s: MW-15s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 7.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 17
Well Purging Data – MW-15s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0930	8.73	7.84	90.1	0.268	9.02	0.25	Silty
0931	9.18	5.92	206.0	0.227	8.01	1.0	Silty
0932	8.72	5.18	244.1	0.224	8.69	2.0	Silty
0934	8.36	4.66	266	0.248	8.79	3.0	Silty
0935	8.14	3.97	297.1	0.263	8.45	4.0	Silty
0937	8.35	3.63	310	0.265	8.29	5.0	Silty
0938	8.01	3.61	308	0.279	8.53	6.0	Silty
0939	7.90	3.61	309	0.294	8.60	7.0	Silty

MW-16s: MW-16s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 1.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 18
Well Purging Data – MW-16s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1005	11.69	6.89	136.7	1.087	7.59	0.25	Clear
1006	11.18	6.92	135.6	1.036	6.90	1.0	Silty
1007	11.02	6.93	132.6	1.053	6.57	1.5	Silty

MW-17s: MW-17s was characterized as having effluent that was too turbid for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 7.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 19
Well Purging Data – MW-17s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1157	11.26	7.19	98.2	0.729	7.32	0.25	Silty
1158	9.93	6.92	108.1	0.679	6.62	2.0	Very Silty
1200	9.56	6.72	118.4	0.629	7.07	3.0	Very Silty
1201	9.74	6.60	125.0	0.688	6.43	5.0	Very Silty
1203	9.68	6.55	128.0	0.692	6.45	6.0	Very Silty
1203	9.74	6.53	131.0	0.703	6.38	7.0	Very Silty

MW-1d: MW-1d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 50.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 20
Well Purging Data – MW-1d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0903	12.70	7.82	58.3	0.402	11.59	3.0	S. Silty
0904	12.04	7.73	60.2	0.398	8.32	10.0	S. Silty
0905	11.82	7.20	100.0	0.398	6.86	15.0	S. Silty
0906	12.20	6.71	115.7	0.385	5.06	20.0	S. Silty
0908	12.39	6.80	110.3	0.371	5.18	25.0	Clear
0910	12.42	7.03	99.4	0.351	5.30	30.0	Clear
0911	12.41	7.47	84.9	0.321	5.93	35.0	Clear
0913	12.66	7.95	71.9	0.285	7.06	40.0	Clear
0914	12.47	8.29	62.2	0.288	7.21	45.0	Clear
0915	12.38	8.42	63.9	0.217	6.38	50.0	Clear

MW-2d: MW-2d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 114.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 21
Well Purging Data – MW-2d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1145	16.68	8.19	-99.0	0.764	4.56	0.25	Silty
1146	13.24	7.63	-94.0	1.060	4.35	10.0	Silty
1148	13.06	7.20	-96.1	1.068	2.48	20.0	Silty
1150	12.94	7.12	-96.3	1.062	3.11	30.0	Silty
1151	13.01	7.04	-93.4	1.055	3.00	40.0	Silty
1153	14.67	7.04	-86.8	1.043	2.86	50.0	V. Cloudy
1200	13.48	7.09	-97.7	0.944	2.27	60.0	Cloudy
1201	12.55	7.14	-100.8	0.986	2.49	70.0	Cloudy
1203	12.49	7.16	-101.8	0.780	2.69	80.0	Cloudy
1205	12.38	7.17	-112.3	0.761	1.74	90.0	Cloudy
1206	12.23	7.12	-96.4	0.760	2.45	100.0	Cloudy
1208	12.46	7.09	-95.2	0.775	2.63	110.0	Cloudy

MW-6d: MW-6d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 46.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 22
Well Purging Data – MW-6d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0951	15.30	8.91	53.1	0.540	5.72	0.25	Silty
0952	12.60	8.09	45.6	1.102	4.28	10.0	Silty
0953	12.71	8.03	31.6	0.777	3.40	15.0	Silty
0954	12.18	7.79	21.6	0.711	4.13	20.0	Silty
0955	12.18	7.91	12.2	0.649	3.24	25.0	Silty
0957	12.42	7.87	14.0	0.637	4.34	30.0	Silty
0958	12.39	7.85	13.3	0.616	4.36	35.0	Silty
0959	12.16	7.83	13.3	0.603	4.40	40.0	Silty
1000	12.36	7.79	15.9	0.602	4.45	45.0	Silty

MW-7d: MW-7d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 72.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 23
Well Purging Data – MW-7d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1041	16.32	8.88	37.5	1.231	5.26	0.25	S. Silty
1042	13.44	8.86	37.6	4.472	4.26	10.0	S. Silty
1043	12.94	9.01	19.5	4.289	3.71	20.0	S. Silty
1044	13.02	9.08	7.0	4.071	3.30	30.0	V. Cloudy
1045	12.04	9.30	-20.1	2.036	2.55	35.0	Cloudy
1047	13.02	9.55	-38.1	1.646	2.78	40.0	Silty
1051	15.01	9.54	-35.0	1.561	2.38	45.0	Silty
1059	13.29	9.64	-34.7	1.422	2.87	50.0	V. Cloudy
1059	12.81	9.71	-42.7	1.322	2.81	55.0	V. Cloudy
1101	13.08	9.73	-48.6	1.275	2.15	60.0	V. Cloudy
1102	13.44	9.75	-54.1	1.261	2.11	65.0	V. Cloudy
1103	13.55	9.75	-60.4	1.226	1.85	70.0	V. Cloudy

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 90.0'. The well was purged and sampled at 290 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 24
Well Purging Data – MW-8d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0747	15.39	7.25	119	0.414	16.1	0.90	69.15
0750	15.64	7.22	104	0.416	15.0	0.83	69.25
0753	15.70	7.21	89	0.416	16.3	0.79	69.25
0756	15.76	7.21	74	0.417	14.8	0.75	69.25
0759	15.78	7.21	63	0.415	15.0	0.73	69.25
0802	15.79	7.21	47	0.415	12.4	0.71	69.25

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 410 ml / min. The well maintained steady recharge during the purging activities. A total of 4.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 25
Well Purging Data – MW-9d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0859	12.94	7.22	-111	1.33	56.8	0.58	69.74
0902	13.00	7.23	-111	1.20	53.3	0.55	69.76
0905	12.96	7.25	-109	0.987	40.5	0.53	69.76
0908	12.91	7.26	-104	0.785	29.0	0.57	69.76
0911	12.91	7.20	-99	0.710	26.6	0.55	69.76
0914	12.92	7.14	-94	0.655	19.1	0.52	69.76
0917	12.95	7.13	-91	0.633	14.8	0.52	69.76
0920	12.97	7.12	-89	0.630	10.1	0.52	69.76

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 176.0'. The well was purged and sampled at 150 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 26
Well Purging Data – MW-10d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1123	11.96	7.12	1	0.413	0.8	0.78	67.75
1126	12.28	7.10	-3	0.420	1.0	0.71	68.05
1129	12.46	7.09	-4	0.423	0.3	0.68	68.30
1132	12.73	7.08	-2	0.425	0.1	0.67	68.30
1135	13.17	7.07	-3	0.430	0.0	0.68	68.30
1138	13.23	7.06	-3	0.431	0.0	0.70	68.30
1141	13.38	7.06	-3	0.431	0.0	0.71	68.30
1144	13.35	7.06	-3	0.429	0.0	0.72	68.30
1147	13.30	7.05	-8	0.429	0.0	0.72	68.30

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 119.0'. The well was purged and sampled at 460 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 27
Well Purging Data – MW-11d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1219	12.17	7.35	103	0.326	10.4	0.77	72.62
1222	12.89	7.37	47	0.332	7.9	0.58	72.62
1225	13.36	7.38	2	0.335	4.0	0.55	72.62
1228	13.62	7.37	-12	0.337	2.8	0.62	72.62
1231	13.56	7.36	-16	0.336	2.9	0.81	72.62
1234	13.50	7.35	-15	0.335	26	0.89	72.62
1237	13.57	7.34	-13	0.335	2.4	0.99	72.62

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 450 ml / min. The well maintained steady recharge during the purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 28
Well Purging Data – MW-12d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1312	11.44	7.34	57	0.433	20.5	0.97	64.29
1315	11.87	7.32	-33	0.438	29.4	0.79	64.31
1318	12.04	7.29	-50	0.440	31.1	0.67	64.31
1321	12.05	7.28	-53	0.439	30.6	0.61	64.31
1324	12.04	7.25	-53	0.438	30.4	0.54	64.31
1327	12.03	7.24	-52	0.438	29.5	0.51	64.31
1330	12.08	7.22	-50	0.438	23.7	0.50	64.31
1333	12.13	7.21	-49	0.438	19.5	0.50	64.31
1336	12.15	7.21	-48	0.438	19.0	0.47	64.31

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 450 ml / min. The well maintained steady recharge during the purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 29
Well Purging Data – MW-13d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1000	11.61	7.78	59.0	0.290	14.0	0.90	48.80
1003	11.99	7.59	0	0.298	11.4	0.86	48.80
1006	12.03	7.48	-26	0.297	10.1	0.78	48.80
1009	12.26	7.41	-30	0.298	8.5	0.74	48.80
1012	12.21	7.36	-30	0.298	8.0	0.72	48.80
1015	12.05	7.33	-30	0.296	6.0	0.71	48.80
1018	12.06	7.32	-29	0.297	5.4	0.69	48.80
1021	12.04	7.31	-29	0.297	4.1	0.69	48.80

OW-4: OW-4 was purged and sampled utilizing hand bailing methods. A total of 17.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 30
Well Purging Data – OW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1144	12.44	7.67	82.7	0.550	2.82	2.5	S. Silty
1145	12.46	7.65	77.9	0.559	3.05	5.0	S. Silty
1147	11.47	7.67	74.5	0.630	2.37	7.5	S. Silty
1148	11.58	7.66	72.7	0.590	2.50	10.0	Clear
1149	11.46	7.66	72.6	0.601	2.98	12.5	Clear
1150	11.43	7.66	72.1	0.597	3.05	15.0	Clear
1151	11.20	7.66	70.6	0.601	2.23	17.5	Clear

Table 31
Final Sample Data Summary
Wells Sampled via Hand-Bailing Techniques

Location	pH (SU)	Temp. (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth (Feet)
MW1s	6.47	12.27	0.911	6.89	105.7	10.31
MW2s	6.90	11.45	1.940	2.76	-75.2	12.17
MW3s	6.88	10.47	1.696	2.51	-53.2	12.11
MW4s	6.73	11.98	1.332	2.20	-22.5	8.03
MW5s	6.30	12.36	0.808	3.34	118.5	8.62
MW6s	6.41	12.35	2.022	2.26	99.3	8.85
MW12s	7.42	15.14	0.666	8.15	48.6	5.12
MW13s	6.70	12.60	0.395	7.36	77.1	15.37
MW15s	6.35	9.10	0.304	7.81	172.0	12.94
MW16s	7.33	16.16	1.036	3.23	15.6	33.06
MW17s	6.53	9.74	0.703	6.38	131.1	17.42
MW1d	7.82	11.71	0.382	11.28	100.1	61.33
MW2d	6.59	11.71	1.086	3.29	-11.5	26.59
MW6d	7.08	11.66	0.511	5.79	147.4	69.40
MW7d	7.65	12.43	2.969	3.59	120.2	58.40
OW4	7.63	13.14	0.563	3.16	90.6	1.45
SW1	7.23	21.79	0.171	4.37	33.8	--
SW2	7.37	19.66	0.187	5.37	40.7	--
SW3	7.53	19.38	0.209	7.10	10.4	--
SW4	Dry	Dry	Dry	Dry	Dry	Dry
SW5	7.12	18.82	1.391	3.95	49.5	--
Sw6	7.93	14.97	0.339	6.53	48.4	--

Table 32
Final Sample Data Summary
Wells Sampled via Low Flow / Low Stress Techniques

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
MW7s	13.74	6.96	193	0.978	0.0	6.42
MW8s	13.09	6.78	196	0.570	0.0	3.86
MW9s	14.47	7.06	163	0.690	0.2	5.57
MW10s	12.27	6.71	208	0.666	0.0	3.90
MW11s	11.40	6.90	-79	0.448	1.7	0.46
MW14s	11.57	5.89	225	0.109	21.0	4.60
MW8d	15.79	7.21	47	0.415	12.4	0.71
MW9d	12.97	7.12	-89	0.630	10.1	0.52
MW10d	13.30	7.05	-8	0.429	0.0	0.72
MW11d	13.57	7.34	-13	0.335	2.4	0.99
MW12d	12.15	7.21	-48	0.438	19.0	0.47
MW13d	12.04	7.31	-29	0.297	4.1	0.69

Table 33
Metals Data Summary Table

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-1s	1.5	0.06	0.9	0.0
MW-6s	6.0	0.08	0.7	34.0
MW-7s	0.8	0.01	1.8	23
MW-8s	0.7	0.06	>35.0	24
MW-9s	1.6	0.04	1.9	31
MW-10s	1.4	0.00	1.7	12
MW-11s	7.5	1.91	7.6	0
MW-13s	1.0	0.03	2.7	21.0
MW-14s	0.4	0.2	0.7	10.0
MW-16s	2.0	0.00	0.0	30.0
MW-1d	0.8	0.04	0.1	10
MW-2d	4.7	2.09	1.3	13
MW-8d	0.8	0.06	4.2	22
MW-9d	1.6	0.08	0.0	17
MW-10d	0.7	0.04	2.5	20
MW-11d	1.0	0.03	1.3	14
MW-12d	0.7	0.15	0.5	19
MW-13d	0.4	0.02	2.0	12

**Table 34
Sample Log**

Location	Date	Time
MW-1s	06/02/14	1529
MW-2s	06/02/14	1308
MW-3s	06/02/14	1336
MW-4s	06/02/14	1551
MW-5s	06/02/14	1545
MW-6s	06/02/14	1509
MW-7s	06/04/14	1014
MW-8s	06/04/14	0930
MW-9s	06/04/14	1100
MW-10s	06/04/14	1327
MW-11s	06/04/14	1408
MW-12s	06/02/14	1428
MW-13s	06/02/14	1445
MW-14s	06/03/14	1442
MW-15s	06/02/14	0945
MW-16s	06/02/14	1404
MW-17s	06/04/14	1205
MW-1d	06/04/14	0736
MW-2d	06/04/14	0823
MW-6d	06/04/14	0803
MW-7d	06/04/14	0812
MW-8d	06/03/14	0805
MW-9d	06/03/14	0923
MW-10d	06/03/14	1150
MW-11d	06/03/14	1240
MW-12d	06/03/14	1339
MW-13d	06/03/14	1024
SW1	06/02/14	1609
SW2	06/02/14	1605
SW3	06/02/14	1601
SW4	06/02/14	NS
SW5	06/02/14	1618
SW6	06/02/14	1623
FB1	06/02/14	1636
FB2	06/03/14	1501
FB3	06/04/14	1415
OW-1	06/02/14	NS
OW-2	06/02/14	NS
OW-3	06/02/14	NS
OW-4	06/02/14	1201
Effluent-1	06/04/14	0843
Effluent-2	06/04/14	1250

NS= Not Sampled

Table 35
Staff Gauge Data Summary

Staff Gauge #	Height
SG-1	0.32
SG-2	0.22

Day 1 Onsite: 0635
Day 1 Offsite: 1650

Day 2 Onsite: 0720
Day 2 Offsite: 1515

Day 3 Onsite: 0705
Day 3 Offsite: 1515

KC/SN/kc

Field Notes

TO: File
FROM: Ray Hanley
DATE: November 20 - 21 - 24, 2014
PROJECT: Lewis Brothers Garage Property
PROJECT NUMBER: 27058
SUBJECT: Groundwater Sampling Activities

1145: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations well located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater-monitoring wells and one (1) of the four (4) observations wells. The general well information is as follows:

Table 1
General Well Information
Wells Sampled via Low Flow / Low Stress Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	Pump Depth (Feet)	Pump Rate (L/min)	Purged (Gallons)
MW-7s	21.51	27.51	24.5	0.25	2.5
MW-8s	13.16	23.52	18.7	0.32	2.5
MW-9s	31.30	39.10	35.2	0.39	3.0
MW-11s	9.22	23.54	16.4	0.32	2.0
MW-14s	10.53	19.85	15.2	0.24	3.0
MW-8d	74.01	100.00	90.0	0.29	3.5
MW-9d	74.50	172.00	162.0	0.50	4.0
MW-10d	70.64	186.00	176.0	0.19	2.0
MW-11d	76.94	128.00	118.0	0.40	3.0
MW-12d	68.31	201.00	191.0	0.50	3.0
MW-13d	52.69	182.00	172.0	0.50	4.5

Table 2
General Well Information
Wells Sampled via Hand-Bailing Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	1 Volume (Gallons)	3 Volumes (Gallons)	Purged (Gallons)
MW-1s	18.62	21.95	0.5	1.5	2.0
MW-2s	20.30	29.60	1.4	4.2	0.25
MW-3s	19.21	28.00	1.4	4.2	0.0
MW-4s	16.31	24.90	1.4	4.2	2.0
MW-5s	16.64	21.31	0.8	2.4	4.5
MW-6s	15.14	15.20	0.01	0.03	0.0
MW-10s	14.04	18.53	2.9	8.7	5.5
MW-12s	8.57	19.97	1.9	5.7	2.5
MW-13s	16.17	18.18	0.3	0.9	2.0
MW-15s	10.13	19.13	1.5	4.5	5.0
MW-16s	32.85	37.67	0.8	2.4	2.0
MW-17s	19.84	29.20	1.6	4.8	4.0
MW-1d	43.03	68.60	37.6	112.8	47.5
MW-2d	20.61	78.70	85.5	256.5	110.0
MW-6d	63.62	85.20	31.7	95.1	37.0
MW-7d	20.88	60.40	58.1	174.3	79.0
OW-1	8.24	11.58	--	--	--
OW-2	7.59	10.98	--	--	--
OW-3	7.39	10.92	--	--	--
OW-4	6.72	9.95	2.1	6.3	8.0

MW-1s: MW-1s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 3
Well Purging Data – MW-1s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0858	10.24	7.65	46.2	1.001	0.98	0.25	Silty
0900	11.26	7.51	47.7	0.967	1.14	1.0	Silty
0902	11.24	7.52	43.6	0.890	1.25	2.0	Silty

MW-2s: Due to the historical presence of Separate Phase Liquid (1.36'), MW-2 was not sampled during the November 2014 sampling activities.

MW-3s: Due to the presence of Separate Phase Liquid (0.95'), MW-3s was not sampled during the November 2014 sampling activities.

MW-4s: MW-4s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Strong odorous and visual indications of contamination were observed.

**Table 4
Well Purging Data – MW-4s**

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0937	12.88	8.64	-34.4	0.884	0.61	0.25	Silty
0938	12.33	8.81	-42.0	0.907	1.33	1.0	Silty
0940	11.91	8.93	-50.8	0.904	0.89	2.0	Silty

MW-5s: MW-5s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 4.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

**Table 5
Well Purging Data – MW-5s**

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0915	11.05	7.27	61.1	0.807	1.54	0.25	Silty
0916	11.75	7.17	71.2	0.766	1.70	1.0	Silty
0917	11.91	7.15	73.6	0.736	1.69	2.0	Silty
0919	11.89	7.12	74.5	0.687	1.77	3.0	Silty
0920	11.69	7.11	75.2	0.669	1.53	4.0	Silty
0921	11.55	7.10	76.2	0.621	1.93	4.5	Silty

MW-6s: MW-6s was characterized as having insufficient volume for purging or sampling.

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 24.5'. The well was purged and sampled at 250 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

**Table 6
Well Purging Data – MW-7s**

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0948	14.25	6.82	246	0.752	46.1	1.42	22.11
0951	14.75	6.76	240	0.752	44.9	1.08	22.13
0954	16.88	6.72	228	0.773	48.0	0.82	22.13
0957	16.21	6.71	223	0.755	51.3	0.85	22.13

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 18.7'. The well was purged and sampled at 320 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 7
Well Purging Data – MW-8s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0815	12.09	6.53	281	0.510	30.7	7.83	15.12
0818	12.35	6.57	277	0.514	30.4	7.62	15.24
0821	12.24	6.58	273	0.520	29.4	7.47	15.24
0824	12.56	6.59	270	0.532	25.3	7.45	15.24
0827	12.54	6.60	267	0.534	21.0	7.42	15.24
0830	12.44	6.61	264	0.534	15.4	7.40	15.24

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 35.2'. The well was purged and sampled at 390 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 8
Well Purging Data – MW-9s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1046	11.88	6.86	225	0.616	20.7	7.58	31.89
1049	12.34	6.84	220	0.623	19.3	7.51	31.95
1052	12.59	6.82	216	0.628	20.9	7.27	31.95
1055	12.82	6.80	212	0.635	23.5	7.17	31.95
1058	13.08	6.79	208	0.648	12.5	7.02	31.95
1101	13.11	6.79	205	0.657	8.5	6.90	31.95
1104	13.01	6.79	202	0.664	5.5	6.75	31.95

MW-10s: MW-10s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 5.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Strong odorous indications of contamination were observed.

Table 9
Well Purging Data – MW-10s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1205	9.63	7.84	36.1	1.826	1.28	0.25	Silty
1207	11.14	7.94	26.3	1.924	1.26	3.0	Silty
1208	11.39	7.97	24.1	1.975	1.78	5.0	Silty

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 16.4'. The well was purged and sampled at 320 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Odorous and visual indications of contamination were observed.

Table 10
Well Purging Data – MW-11s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1355	10.94	6.47	163	0.433	12.6	1.81	9.63
1358	11.75	6.54	101	0.441	9.4	1.22	9.67
1401	12.15	6.58	35	0.444	7.5	0.92	9.67
1404	12.23	6.60	16	0.444	7.6	0.85	9.67
1407	12.23	6.61	-5	0.443	5.0	0.80	9.67

MW-12s: MW-12s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 11
Well Purging Data – MW-12s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1046	11.53	7.34	73.2	0.458	1.13	0.25	Silty
1048	11.98	7.21	76.1	0.468	2.03	1.0	Silty
1049	11.60	7.36	59.4	0.551	1.95	2.0	Silty

MW-13s: MW-13s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 12
Well Purging Data – MW-13s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0958	10.93	7.82	25.7	0.563	3.33	0.25	Silty
1000	11.37	7.61	38.4	0.552	3.21	1.0	Silty
1002	11.20	7.58	45.2	0.560	4.73	2.0	Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.2'. The well was purged and sampled at 240 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 13
Well Purging Data – MW-14s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1254	13.24	5.74	226	0.123	341	5.09	12.26
1257	13.57	5.72	224	0.125	237	5.05	12.28
1300	13.74	5.72	223	0.127	163	5.02	12.28
1303	13.89	5.71	222	0.128	87.5	4.99	12.28
1306	13.99	5.71	223	0.128	64.8	5.03	12.28
1309	13.99	5.70	224	0.128	53.3	5.08	12.28

MW-15s: MW-15s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 5.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 14
Well Purging Data – MW-15s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1113	10.07	7.31	71.3	0.361	8.50	0.25	Silty
1114	10.59	7.32	70.9	0.408	7.90	1.0	Silty
1116	10.64	7.35	70.6	0.419	7.73	2.0	Silty
1117	10.57	7.38	71.9	0.395	7.01	3.0	Silty
1118	10.53	7.36	73.2	0.397	7.04	4.0	Silty
1119	10.52	7.37	73.5	0.401	5.72	5.0	Silty

MW-16s: MW-16s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 15
Well Purging Data – MW-16s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1031	9.16	7.38	66.7	1.086	1.18	0.25	Silty
1033	10.19	7.37	67.0	1.118	1.51	1.0	Silty
1035	10.20	7.50	66.1	1.129	1.66	2.0	Silty

MW-17s: MW-17s was characterized as having effluent that was too turbid for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 4.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 16
Well Purging Data – MW-17s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1257	11.24	7.41	67.2	0.899	7.22	0.25	Silty
1258	11.85	7.29	71.8	0.875	7.04	1.0	Silty
1259	11.85	7.28	72.5	0.845	5.24	2.0	Silty
1300	11.63	7.28	72.6	0.850	4.60	3.0	Silty
1302	11.38	7.30	72.1	0.881	3.96	4.0	Silty

MW-1d: MW-1d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 47.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 17
Well Purging Data – MW-1d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1316	7.12	7.00	99.2	0.414	13.52	2.0	Milky
1317	8.45	7.03	97.1	0.443	13.18	10.0	S. Silty
1318	10.24	7.14	91.0	0.441	6.61	20.0	S. Silty
1319	10.56	7.18	88.9	0.429	4.05	25.0	S. Silty
1320	10.70	7.24	85.5	0.410	2.43	30.0	S. Silty
1321	10.75	7.29	83.0	0.387	2.41	35.0	S. Silty
1322	10.75	7.34	81.8	0.373	2.78	40.0	S. Silty
1324	10.73	7.37	80.1	0.375	2.90	45.0	S. Silty

MW-2d: MW-2d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 110.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Strong odorous indications of contamination were observed.

**Table 18
Well Purging Data – MW-2d**

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1506	8.64	8.20	11.0	1.074	1.98	0.25	Very Silty
1507	10.74	8.76	-41.0	1.096	1.79	10.0	Very Silty
1508	10.96	9.00	-64.0	1.094	1.88	20.0	Very Silty
1509	11.03	9.03	-74.2	1.095	2.34	30.0	Very Silty
1510	11.12	9.02	-75.0	1.093	2.01	40.0	Very Silty
1511	11.19	9.01	-74.9	1.087	2.13	50.0	Very Silty
1513	11.33	9.06	-78.4	1.076	1.69	60.0	Very Silty
1517	10.90	9.27	-95.3	1.065	1.52	70.0	Very Silty
1518	11.53	9.33	-102.2	1.004	2.01	80.0	Very Silty
1520	11.92	9.33	-107.7	0.892	1.80	90.0	Very Silty
1522	12.12	9.21	-101.7	0.842	1.97	100.0	Very Silty
1522	11.78	9.07	-89.9	0.854	2.42	110.0	Very Silty

MW-6d: MW-6d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 37.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

**Table 19
Well Purging Data – MW-6d**

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1345	9.31	7.64	66.7	1.134	2.27	0.25	Silty
1346	10.61	7.70	62.9	0.761	1.66	5.0	Silty
1347	11.10	7.65	65.4	0.554	1.16	10.0	Silty
1348	11.21	7.63	66.8	0.513	1.26	15.0	Silty
1349	11.10	7.63	67.1	0.500	1.32	20.0	Silty
1350	11.34	7.64	66.4	0.495	1.22	25.0	Silty
1352	11.40	7.65	66.0	0.483	1.29	30.0	Silty
1353	11.39	7.66	66.0	0.481	1.46	35.0	Silty

MW-7d: MW-7d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 79.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Strong odorous and visual indications of contamination were observed.

Table 20
Well Purging Data – MW-7d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1421	9.07	8.42	22.0	1.904	1.74	5.0	Silty
1422	11.33	8.62	-28.0	1.202	1.40	10.0	S. Silty
1423	11.66	8.60	-26.1	0.906	1.54	20.0	Silty
1424	11.73	8.67	-28.9	0.556	1.52	30.0	Silty
1426	11.77	8.74	-33.4	0.304	1.54	40.0	Silty
1427	11.74	8.66	-30.0	0.292	1.18	50.0	Silty
1437	11.43	8.54	-11.9	0.314	1.60	55.0	Silty
1438	11.93	8.56	-20.9	0.220	1.40	60.0	Silty
1440	12.44	8.62	-26.1	0.213	1.34	65.0	Silty
1441	12.58	8.55	-28.1	0.319	1.50	70.0	Silty
1442	12.11	8.40	-18.6	0.282	4.37	75.0	Silty

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 90.0'. The well was purged and sampled at 290 ml / min. The well maintained steady recharge during the purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 21
Well Purging Data – MW-8d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0849	11.76	7.11	277	0.370	100	1.15	75.04
0852	11.96	7.10	268	0.372	84.1	1.12	75.04
0855	11.98	7.09	260	0.372	78.7	1.10	75.04
0858	12.16	7.08	251	0.373	75.2	1.05	75.04
0901	12.34	7.07	242	0.375	73.6	1.01	75.04
0904	12.54	7.07	233	0.377	72.4	0.98	75.04
0907	12.58	7.07	225	0.377	68.1	0.94	75.04
0910	12.61	7.07	218	0.377	56.0	0.92	75.04

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 22
Well Purging Data – MW-9d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0959	10.77	6.98	222	0.433	4.6	1.63	74.96
1002	10.79	6.96	157	0.438	0.3	1.28	74.96
1005	11.00	6.96	115	0.429	0.0	1.14	74.96
1008	11.06	6.95	98	0.421	0.0	1.05	74.96
1011	11.30	6.92	88	0.416	0.0	0.95	74.96
1014	11.29	6.90	83	0.411	0.0	0.90	74.96
1017	11.35	6.89	80	0.411	0.0	0.88	74.96

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 176.0'. The well was purged and sampled at 190 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 23
Well Purging Data – MW-10d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1118	10.76	6.97	60	0.367	0.0	1.81	71.73
1121	10.83	6.97	54	0.380	0.0	1.23	72.02
1124	10.98	6.95	53	0.383	0.0	1.10	72.02
1127	11.16	6.94	52	0.385	0.0	1.06	72.02
1130	11.30	6.93	51	0.386	0.0	1.05	72.02
1133	11.34	6.92	49	0.387	0.0	1.05	72.02
1136	11.33	6.91	47	0.386	0.0	1.03	72.02

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 400 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 24
Well Purging Data – MW-11d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1215	11.45	7.09	170	0.317	0.0	1.60	77.20
1218	11.26	7.06	157	0.319	0.0	1.29	77.20
1221	11.52	7.07	141	0.322	0.0	1.07	77.20
1224	11.77	7.06	125	0.324	0.0	0.95	77.20
1227	11.87	7.05	111	0.325	0.0	0.87	77.20
1230	12.07	7.05	97	0.326	0.0	0.82	77.20
1233	12.32	7.04	85	0.328	0.0	0.77	77.20
1236	12.38	7.04	73	0.328	0.0	0.77	77.20
1239	12.42	7.04	64	0.328	0.0	0.77	77.20

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 25
Well Purging Data – MW-12d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1448	10.83	7.09	175	0.399	2.3	1.42	68.41
1451	11.03	7.08	149	0.401	0.3	1.13	68.41
1454	11.11	7.07	140	0.401	1.6	1.06	68.41
1457	11.20	7.06	126	0.402	1.2	0.98	68.41
1500	11.23	7.05	111	0.401	6.9	0.92	68.41
1503	11.24	7.04	100	0.401	23.1	0.88	68.41

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 4.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 26
Well Purging Data – MW-13d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1344	10.97	7.32	181	0.272	0.0	1.21	52.84
1347	11.06	7.24	171	0.272	0.0	1.13	52.84
1350	11.08	7.20	162	0.272	0.0	1.08	52.84
1353	11.02	7.18	153	0.272	0.0	1.08	52.84
1356	11.00	7.15	142	0.272	0.0	1.03	52.84

OW-4: OW-4 was purged and sampled utilizing hand bailing methods. A total of 8.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 27
Well Purging Data – OW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1458	8.83	7.09	102	0.263	11.12	0.25	Clear
1500	10.81	7.03	97	0.343	7.85	2.0	Clear
1501	11.55	7.05	91	0.352	8.52	4.0	Cloudy
1502	11.89	7.06	86	0.360	7.21	5.0	Cloudy
1503	12.06	7.06	82	0.370	7.91	7.0	Silty

Table 28
Final Sample Data Summary
Wells Sampled via Hand-Bailing Techniques

Location	pH (SU)	Temp. (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth (Feet)
MW1s	7.45	9.45	0.823	1.53	69.6	19.19
MW2s	--	--	--	--	--	--
MW3s	--	--	--	--	--	--
MW4s	7.95	11.85	0.894	1.08	30.1	17.22
MW5s	7.27	9.33	0.622	2.57	83.6	18.60
MW6s	--	--	--	--	--	--
MS10s	7.59	10.15	1.972	3.86	60.3	14.54
MW12s	7.67	11.02	0.681	2.15	48.0	9.56
MW13s	7.27	7.65	0.546	7.39	82.7	17.32
MW15s	7.37	10.52	0.400	5.18	76.6	16.91
MW16s	8.14	7.85	1.113	5.23	79.7	34.41
MW17s	7.37	10.39	0.910	4.74	72.0	18.30
MW1d	7.48	6.55	0.411	7.34	83.3	63.64
MW2d	8.03	8.89	1.063	1.45	10.5	36.73
MW6d	7.55	7.85	0.416	2.29	77.9	73.68
MW7d	8.72	8.88	1.005	1.64	-32.3	21.33
OW4	7.18	11.34	0.334	3.93	70.0	6.81
SW1	--	--	--	--	--	--
SW2	--	--	--	--	--	--
SW3	--	--	--	--	--	--
SW4	--	--	--	--	--	--
SW5	--	--	--	--	--	--
SW6	--	--	--	--	--	--

Table 29
Final Sample Data Summary
Wells Sampled via Low Flow / Low Stress Techniques

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
MW7s	16.21	6.71	223	0.755	51.3	0.85
MW8s	12.44	6.61	264	0.534	15.4	7.40
MW9s	13.01	6.79	202	0.664	5.5	6.75
MW11s	12.23	6.61	-5	0.443	5.0	0.80
MW14s	13.99	5.70	224	0.128	53.3	5.08
MW8d	12.61	7.07	218	0.377	56.0	0.92
MW9d	11.35	6.89	80	0.411	0.0	0.88
MW10d	11.33	6.91	47	0.386	0.0	1.03
MW11d	12.42	7.04	64	0.328	0.0	0.77
MW12d	11.24	7.04	100	0.401	23.1	0.88
MW13d	11.00	7.15	142	0.272	0.0	1.03

Table 30
Metals Data Summary Table

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-1s	--	--	--	--
MW-2s	--	--	--	--
MW-3s	--	--	--	--
MW-4s	--	--	--	--
MW-5s	--	--	--	--
MW-6s	--	--	--	--
MW-7s	0.2	0.03	2.0	19
MW-8s	0.0	0.01	3.6	>80
MW-9s	0.2	0.03	2.4	31
MW-10s	--	--	--	--
MW-11s	6.3	1.93	0.0	0
MW-13s	--	--	--	--
MW-14s	--	--	--	--
MW-16s	--	--	--	--
MW-1d	--	--	--	--
MW-2d	--	--	--	--
MW-6d	--	--	--	--
MW-7d	--	--	--	--
MW-8d	--	--	--	--
MW-9d	0.8	0.00	1.8	22
MW-10d	0.1	0.00	0.0	15
MW-11d	0.0	0.00	0.0	6
MW-12d	0.0	0.00	0.0	17
MW-13d	0.0	0.00	0.0	8

**Table 31
Sample Log**

Location	Date	Time
MW-1s	11/21/14	0729
MW-2s	NS	NS
MW-3s	NS	NS
MW-4s	11/21/14	1440
MW-5s	11/21/14	1423
MW-6s	NS	NS
MW-7s	11/21/14	1000
MW-8s	11/21/14	0832
MW-9s	11/21/14	1106
MW-10s	11/21/14	1503
MW-11s	11/21/14	1409
MW-12s	11/21/14	1453
MW-13s	11/21/14	1320
MW-14s	11/21/14	1309
MW-15s	11/21/14	1120
MW-16s	11/21/14	1343
MW-17s	11/21/14	1523
MW-1d	11/21/14	0729
MW-2d	11/21/14	0820
MW-6d	11/21/14	0740
MW-7d	11/21/14	0803
MW-8d	11/24/14	0912
MW-9d	11/24/14	1019
MW-10d	11/24/14	1138
MW-11d	11/24/14	1241
MW-12d	11/24/14	1505
MW-13d	11/24/14	1358
SW1	NS	NS
SW2	NS	NS
SW3	NS	NS
SW4	NS	NS
SW5	NS	NS
SW6	NS	NS
FB1	11/21/14	1504
FB2	11/21/14	1536
FB3	11/24/14	1515
OW-1	NS	NS
OW-2	NS	NS
OW-3	NS	NS
OW-4	11/21/14	1510
Effluent-1	NS	NS
Effluent-2	NS	NS

NS= Not Sampled

Table 32
Staff Gauge Data Summary

Staff Gauge #	Height
SG-1	Dry
SG-2	Dry

Day 1 Onsite: 1145
Day 1 Offsite: 1700

Day 2 Onsite: 0710
Day 2 Offsite: 1600

Day 3 Onsite: 0815
Day 3 Offsite: 1600

SN / rh

Field Notes

TO: File
FROM: Kevin Cucura
DATE: October 6 - 8, 2015
PROJECT: Lewis Brothers Garage Property
PROJECT NUMBER: 27058
SUBJECT: Groundwater Sampling Activities

0735: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations well located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater-monitoring wells and one (1) of the four (4) observations wells. The general well information is as follows:

Table 1
General Well Information
Wells Sampled via Low Flow / Low Stress Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	Pump Depth (Feet)	Pump Rate (L/min)	Purged (Gallons)
MW-7s	19.63	27.51	23.6	0.36	2.0
MW-8s	11.70	23.52	17.6	0.17	7.0
MW-9s	29.40	39.10	34.3	0.35	2.5
MW-10s	12.12	18.53	15.3	0.10	2.0
MW-11s	7.33	23.54	14.9	0.33	2.0
MW-14s	9.43	19.85	14.6	0.30	3.0
MW-8d	74.55	100.00	90.0	0.30	3.0
MW-9d	74.35	172.00	162.0	0.38	2.5
MW-10d	70.38	186.00	176.0	0.10	2.5
MW-11d	76.28	128.00	118.0	0.37	2.5
MW-12d	68.01	201.00	191.0	0.43	2.5
MW-13d	52.45	182.00	172.0	0.37	2.0

Table 2
General Well Information
Wells Sampled via Hand-Bailing Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	1 Volume (Gallons)	3 Volumes (Gallons)	Purged (Gallons)
MW-1s	--	21.95	--	--	--
MW-2s	18.42	29.60	1.9	5.7	6.0
MW-3s	17.59	28.00	1.7	5.1	6.0
MW-4s	14.30	24.90	1.8	5.4	2.5
MW-5s	14.32	21.31	1.2	3.6	5.0
MW-6s	15.56	16.20	0.1	0.3	0.10
MW-12s	5.87	19.97	2.4	7.2	4.0
MW-13s	15.59	18.18	1.7	5.1	3.0
MW-15s	10.32	19.13	1.5	4.5	5.0
MW-16s	32.76	37.67	0.8	2.4	2.0
MW-17s	18.76	29.20	1.8	5.4	6.0
MW-1d	42.91	68.60	37.8	113.4	40.0
MW-2d	23.53	78.78	81.2	243.6	96.0
MW-6d	62.97	85.20	32.7	98.1	35.0
MW-7d	19.08	60.40	60.7	182.1	70.0
OW-1	5.17	11.58	--	--	--
OW-2	4.44	10.98	--	--	--
OW-3	4.25	10.92	--	--	--
OW-4	3.58	9.95	4.1	12.3	14.0

MW-1s: MW-1s could not be found during the October 2015 sampling event. No sample was collected at the time of the sampling event.

MW-2s: Due to the presence of Separate Phase Liquid (0.02'), MW-2 was purged without collecting water quality data. A total of 6.0 gallons of water was purged from the well. The well was sampled via a disposable bailer after being allowed to recharge. Strong odorous and visual indications of contamination were observed.

MW-3s: Due to the presence of Separate Phase Liquid (0.29'), MW-3s was purged without collecting water quality data. A total of 6.0 gallons of water was purged from the well. The well was sampled via a disposable bailer after being allowed to recharge. Strong odorous and visual indications of contamination were observed.

MW-4s: MW-4s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous and visual indications of contamination were observed.

Table 3
Well Purging Data – MW-4s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1322	13.62	7.17	-80.9	0.902	1.56	0.25	Clear
1323	14.39	7.21	-89.5	0.899	1.64	1.0	Silty
1324	14.16	7.35	-113.7	0.896	1.66	2.0	Silty
1325	13.68	7.44	-124.3	0.890	1.91	2.5	Silty

MW-5s: MW-5s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 5.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 4
Well Purging Data – MW-5s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1252	13.32	7.04	91.8	1.252	2.49	0.25	Clear
1252	13.16	6.78	107.8	1.291	2.56	1.0	Silty
1253	13.28	6.65	114.6	1.351	2.52	2.0	Silty
1254	13.01	6.60	118.3	1.324	3.03	3.0	Silty
1255	12.56	6.55	122.7	1.304	3.02	4.0	Silty
1256	12.48	6.52	125.8	1.301	2.97	5.0	Silty

MW-6s: MW-6s was characterized as having insufficient volume for purging or sampling.

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 23.6'. The well was purged and sampled at 360 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 5
Well Purging Data – MW-7s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0908	15.69	7.26	8.4	0.992	0.0	1.33	20.00
0911	16.52	7.29	9.7	0.996	0.0	1.34	20.00
0914	17.13	7.33	14.3	1.004	0.0	1.31	20.00
0917	17.13	7.32	16.7	1.005	0.0	1.31	20.00
0920	17.17	7.32	18.1	1.005	0.0	1.30	20.00

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 17.6'. The well was purged and sampled at 170 ml / min. The well maintained steady recharge during the purging activities. A total of 7.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 6
Well Purging Data – MW-8s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0845	17.25	7.25	82.1	0.814	0.0	9.27	13.49
0848	17.21	7.25	80.7	0.814	0.0	8.70	13.57
0851	17.13	7.26	82.9	0.814	0.0	7.25	13.57
0854	17.11	7.22	82.4	0.814	0.0	6.50	13.57
0857	17.05	7.22	82.7	0.814	0.0	6.10	13.57
0900	17.07	7.24	82.8	0.814	0.0	6.11	13.57

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 34.3'. The well was purged and sampled at 350 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 7
Well Purging Data – MW-9s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1043	14.53	7.50	28.4	0.656	49.8	4.94	29.66
1046	15.06	7.51	24.0	0.657	24.3	4.85	29.71
1049	15.11	7.53	23.3	0.657	10.1	4.81	29.71
1052	15.25	7.53	23.1	0.657	0.0	4.76	29.71
1055	15.40	7.53	22.1	0.656	0.0	4.72	29.71
1058	15.46	7.53	21.5	0.656	0.0	4.70	29.71
1101	15.37	7.53	22.2	0.655	0.0	4.62	29.71

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.3'. The well was purged and sampled at 100 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 8
Well Purging Data – MW-10s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1443	15.25	7.25	-109.7	1.333	0.0	0.66	12.71
1446	15.44	7.21	-99.6	1.202	0.0	0.98	12.84
1447	15.84	7.18	-97.8	1.219	0.0	1.12	12.91
1452	16.00	7.19	-97.0	1.202	0.0	1.87	12.91
1455	15.80	7.13	-85.1	1.124	0.0	2.15	12.91
1458	15.75	7.12	-82.3	1.124	0.0	2.15	12.91
1501	15.85	7.12	-84.4	1.124	0.0	1.95	12.91

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 14.9'. The well was purged and sampled at 330 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 9
Well Purging Data – MW-11s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1246	14.58	7.23	-111.2	0.514	0.0	0.87	7.67
1249	14.70	7.24	-114.8	0.513	0.0	0.76	7.70
1252	14.85	7.25	-118.3	0.514	0.0	0.64	7.70
1255	14.96	7.26	-120.9	0.514	0.0	0.53	7.70
1258	14.90	7.26	-122.7	0.514	0.0	0.46	7.70
1301	14.95	7.26	-124.3	0.513	0.0	0.42	7.70
1304	14.97	7.27	-126.3	0.513	0.0	0.38	7.70

MW-12s: MW-12s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 4.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 10
Well Purging Data – MW-12s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1103	13.93	7.54	67.3	0.510	4.17	0.25	Clear
1104	15.53	7.29	84.2	0.538	5.54	1.0	Silty
1105	14.76	7.19	88.9	0.553	4.59	2.0	Silty
1106	13.87	7.13	84.3	0.577	4.46	3.0	Silty
1107	13.58	7.09	16.2	0.607	5.58	4.0	Silty

MW-13s: MW-13s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 3.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 11
Well Purging Data – MW-13s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1312	13.67	7.25	106.4	0.322	5.67	1.0	Clear
1313	13.54	7.11	112.0	0.322	6.24	2.0	Silty
1315	13.29	6.90	122.8	0.373	8.40	3.0	Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 14.6'. The well was purged and sampled at 300 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 12
Well Purging Data – MW-14s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1449	15.55	6.05	167.3	0.152	300	4.22	11.06
1452	15.75	6.00	170.1	0.151	250	4.16	11.13
1455	15.63	5.98	173.4	0.150	187	4.18	11.15
1458	15.67	5.96	176.1	0.149	99.7	4.19	11.15
1501	15.89	5.94	178.1	0.150	75.3	4.11	11.15
1504	16.04	5.95	178.1	0.149	51.9	4.10	11.15
1507	16.02	5.95	178.4	0.150	32.3	4.11	11.15
1510	15.92	5.95	178.7	0.150	21.1	4.12	11.15
1513	15.99	5.94	178.5	0.150	10.7	4.11	11.15

MW-15s: MW-15s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. The well was evacuated upon completion of the purging activities. A total of 5.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 13
Well Purging Data – MW-15s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1019	11.54	7.62	35.4	0.392	7.89	0.25	Silty
1020	12.08	7.49	45.3	0.402	8.13	1.0	Silty
1021	11.97	7.45	49.1	0.420	8.15	2.0	Silty
1022	11.80	7.45	52.4	0.415	8.34	3.0	Silty
1023	11.42	7.44	55.3	0.411	8.18	4.0	Silty
1024	11.20	7.47	58.9	0.407	7.02	5.0	Silty

MW-16s: MW-16s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 14
Well Purging Data – MW-16s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1009	10.85	7.31	12.0	1.082	2.91	0.25	Clear
1010	10.73	7.28	16.2	1.088	3.52	1.0	Silty
1011	10.65	7.27	21.2	1.095	4.21	1.5	Silty
1011	10.64	7.26	25.5	1.097	4.24	2.0	Silty

MW-17s: MW-17s was characterized as having effluent that was too turbid for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 6.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 15
Well Purging Data – MW-17s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1548	13.17	6.93	139.3	0.708	3.85	1.0	Ex. Silty
1550	12.94	6.75	146.2	0.711	2.80	2.0	Ex. Silty
1552	12.44	6.73	148.5	0.675	2.95	3.0	Ex. Silty
1553	12.28	6.71	151.5	0.668	3.45	4.0	Ex. Silty
1555	12.09	6.68	154.6	0.669	3.80	5.0	Ex. Silty
1556	11.96	6.65	158.6	0.643	5.37	6.0	Ex. Silty

MW-1d: MW-1d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 40.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 16
Well Purging Data – MW-1d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0755	11.56	7.77	72.1	0.427	5.00	0.25	Cloudy
0756	11.03	7.75	75.9	0.423	4.93	10.0	Clear
0757	10.89	7.68	80.2	0.422	4.39	20.0	Clear
0758	10.87	7.51	88.8	0.421	4.29	30.0	Clear
0759	10.86	7.49	90.0	0.420	4.27	40.0	Cloudy

MW-2d: MW-2d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 96.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 17
Well Purging Data – MW-2d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0918	12.03	8.46	-124.1	0.907	2.13	1.0	Silty
0919	11.66	8.08	-101.8	0.915	2.17	10.0	Cloudy
0920	11.64	7.68	-68.4	0.915	2.69	20.0	Cloudy
0922	12.13	7.56	-57.5	0.915	6.80	30.0	Cloudy
0923	11.74	7.45	-54.6	0.902	2.93	40.0	Cloudy
0924	11.81	7.43	-57.9	0.795	4.57	50.0	Cloudy
0926	11.80	7.55	-74.3	0.553	2.24	60.0	Cloudy
0929	12.41	7.74	-80.6	0.410	4.91	80.0	Cloudy
0930	12.51	7.73	-79.6	0.429	3.86	90.0	Cloudy

MW-6d: MW-6d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 35.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 18
Well Purging Data – MW-6d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0822	12.30	7.75	94.2	4.499	3.01	0.25	Cloudy
0823	11.53	8.21	70.6	0.885	2.92	10.0	Clear
0825	11.52	8.15	69.4	0.602	2.91	25.0	Clear
0826	11.52	8.10	68.9	0.540	3.38	35.0	Clear

MW-7d: MW-7d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 70.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous and visual indications of contamination were observed.

Table 19
Well Purging Data – MW-7d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0850	12.26	7.79	-126.6	2.291	1.36	0.25	Black
0851	11.97	7.84	-129.7	1.353	2.39	10.0	Silty
0852	11.91	7.78	-129.6	1.095	2.28	20.0	Silty
0853	11.97	8.19	-170.7	0.955	1.99	30.0	Silty
0854	12.11	8.80	-195.6	0.915	1.53	40.0	Silty
0855	12.36	8.99	-199.2	0.882	1.15	50.0	Silty
0856	12.89	9.42	-192.0	0.809	1.78	60.0	Silty
0857	13.02	9.82	-124.3	0.793	0.88	70.0	Silty

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 90.0'. The well was purged and sampled at 300 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 20
Well Purging Data – MW-8d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0951	14.81	7.64	55.2	0.492	0.0	1.03	75.75
0954	15.26	7.57	50.3	0.492	0.0	0.95	75.81
0957	15.35	7.63	49.6	0.492	0.0	0.91	75.81
1000	15.41	7.62	47.6	0.493	0.0	0.90	75.81
1003	15.45	7.62	47.1	0.493	0.0	0.83	75.81
1006	15.48	7.62	46.4	0.493	0.0	0.83	75.81

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 380 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 21
Well Purging Data – MW-9d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1137	11.78	7.29	51.5	0.530	0.0	0.99	74.63
1140	12.10	7.33	43.6	0.531	0.0	0.79	74.63
1143	12.26	7.33	36.5	0.531	0.0	0.71	74.63
1146	12.34	7.34	37.9	0.531	0.0	0.77	74.63
1149	12.33	7.34	37.2	0.531	0.0	0.71	74.63
1152	12.36	7.34	36.7	0.531	0.0	0.67	74.63

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 176.0'. The well was purged and sampled at 100 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 22
Well Purging Data – MW-10d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1344	12.23	7.43	-29.5	0.487	0.0	0.60	71.42
1347	12.76	7.46	-27.5	0.490	0.0	0.61	71.58
1350	11.58	7.43	-23.8	0.489	0.0	0.64	72.22
1353	12.46	7.43	-21.5	0.491	0.0	0.57	72.48
1356	12.94	7.44	-20.5	0.489	0.0	0.52	72.63
1359	12.30	7.44	-19.7	0.493	0.0	0.57	72.63
1402	12.25	7.42	-21.3	0.492	0.0	0.56	72.63
1405	12.21	7.43	-21.5	0.493	0.0	0.57	72.63
1408	12.26	7.42	-21.5	0.492	0.0	0.56	72.63

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 23
Well Purging Data – MW-11d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1107	12.57	7.74	-13.5	0.422	0.0	0.85	76.59
1110	13.08	7.73	-16.7	0.420	0.0	0.80	76.57
1113	13.08	7.69	-13.5	0.418	0.0	0.80	76.57
1116	13.10	7.64	-11.2	0.417	0.0	0.82	76.57
1119	13.14	7.62	-8.7	0.416	0.0	0.82	76.57
1122	13.27	7.59	-7.3	0.415	0.0	0.82	76.57
1125	13.35	7.59	-7.1	0.415	0.0	0.82	76.57
1128	13.33	7.58	-8.0	0.415	0.0	0.82	76.57

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 24
Well Purging Data – MW-12d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1001	11.77	7.59	-6.2	0.520	0.0	1.07	68.02
1004	12.09	7.58	-8.8	0.521	0.0	0.88	68.02
1007	12.17	7.56	-10.0	0.520	0.0	0.80	68.02
1010	12.20	7.54	-10.5	0.520	0.0	0.74	68.02
1013	12.21	7.54	-10.3	0.520	0.0	0.70	68.02
1016	12.20	7.54	-10.1	0.519	0.0	0.67	68.02

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 172.0'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 25
Well Purging Data – MW-13d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1338	11.80	7.73	-15.7	0.331	0.0	0.93	52.51
1341	11.79	7.69	-16.3	0.331	0.0	0.91	52.51
1344	11.86	7.67	-16.3	0.331	0.0	0.86	52.51
1347	11.85	7.64	-16.8	0.331	0.0	0.84	52.51
1350	11.89	7.64	-17.4	0.330	0.0	0.83	52.51
1353	11.85	7.63	-17.5	0.330	0.0	0.81	52.51

OW-4: OW-4 was purged and sampled utilizing hand bailing methods. A total of 13.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 26
Well Purging Data – OW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1228	17.66	7.52	51.7	0.548	2.59	0.25	Clear
1228	17.93	7.57	49.3	0.553	2.81	2.0	Cloudy
1229	17.96	7.61	47.2	0.571	2.61	5.0	Cloudy
1230	17.91	7.64	45.7	0.576	2.16	8.0	Cloudy
1231	17.86	7.66	44.6	0.578	2.17	11.0	Cloudy
1232	17.81	7.67	44.0	0.579	2.11	13.0	Cloudy

Table 27
Final Sample Data Summary
Wells Sampled via Hand-Bailing Techniques

Location	pH (SU)	Temp. (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth (Feet)
MW1s	--	--	--	--	--	--
MW2s	--	--	--	--	--	18.64
MW3s	--	--	--	--	--	18.18
MW4s	7.41	15.52	0.890	2.17	-93.0	14.80
MW5s	6.41	12.68	1.195	3.01	147.9	16.50
MW6s	--	--	--	--	--	--
MW12s	7.35	14.30	0.660	7.21	32.8	12.82
MW13s	6.90	14.08	0.377	8.52	107.7	17.08
MW15s	7.41	11.69	0.417	8.51	80.0	16.45
MW16s	7.13	11.28	1.069	8.71	19.4	35.03
MW17s	6.84	12.37	0.743	5.90	153.1	23.30
MW1d	8.14	10.72	0.400	9.23	67.9	60.70
MW2d	7.27	12.34	0.948	2.59	-45.3	24.92
MW6d	7.81	13.42	0.465	2.07	-100.9	79.31
MW7d	7.68	13.13	0.979	2.53	-87.7	19.31
OW4	7.79	17.71	0.578	2.07	35.5	3.68
SW1	--	--	--	--	--	--
SW2	--	--	--	--	--	--
SW3	--	--	--	--	--	--
SW4	--	--	--	--	--	--
SW5	--	--	--	--	--	--
SW6	--	--	--	--	--	--

Table 28
Final Sample Data Summary
Wells Sampled via Low Flow / Low Stress Techniques

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
MW7s	17.17	7.32	18.1	1.005	0.0	1.30
MW8s	17.07	7.24	82.8	0.814	0.0	6.11
MW9s	15.37	7.53	22.2	0.655	0.0	4.62
MW10s	15.85	7.12	-84.4	1.124	0.0	1.95
MW11s	14.97	7.27	-126.3	0.513	0.0	0.38
MW14s	15.99	5.94	178.5	0.150	10.7	4.11
MW8d	15.48	7.62	46.4	0.493	0.0	0.83
MW9d	12.36	7.34	36.7	0.531	0.0	0.67
MW10d	12.26	7.42	-21.5	0.492	0.0	0.56
MW11d	13.33	7.58	-8.0	0.415	0.0	0.82
MW12d	12.20	7.54	-10.1	0.519	0.0	0.67
MW13d	11.85	7.63	-17.5	0.330	0.0	0.81

Table 29
Metals Data Summary Table

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-1s	--	--	--	--
MW-2s	--	--	--	--
MW-3s	--	--	--	--
MW-4s	--	--	--	--
MW-5s	--	--	--	--
MW-6s	--	--	--	--
MW-7s	0.4	0.02	4.4	16
MW-8s	0.1	0.02	1.5	23
MW-9s	0.5	0.07	0.0	18
MW-10s	3.2	0.15	0.9	4
MW-11s	5.9	1.84	4.1	0
MW-12s	--	--	--	--
MW-13s	--	--	--	--
MW-14s	0.0	0.53	1.0	8
MW-15s	--	--	--	--
MW-16s	--	--	--	--
MW-17s	--	--	--	--
MW-1d	0.1	0.02	0.6	5
MW-2d	4.3	0.86	1.7	8
MW-6d	0.7	0.08	0.6	7
MW-7d	4.5	0.15	0.0	9
MW-8d	0.5	0.10	0.0	10
MW-9d	0.3	0.07	2.6	11
MW-10d	0.2	0.00	0.8	11
MW-11d	0.2	0.00	3.7	7
MW-12d	0.3	0.00	0.1	12
MW-13d	0.0	0.00	1.1	6

Table 30
Sample Log

Location	Date	Time
MW-1s	NS	NS
MW-2s	10.07.15	1400
MW-3s	10.07.15	1345
MW-4s	10.07.15	1415
MW-5s	10.07.15	1310
MW-6s	NS	NS
MW-7s	10.08.15	0933
MW-8s	10.06.15	0903
MW-9s	10.06.15	1104
MW-10s	10.08.15	1504
MW-11s	10.08.15	1307
MW-12s	10.07.15	1128
MW-13s	10.06.15	1412
MW-14s	10.06.15	1516
MW-15s	10.07.15	1039
MW-16s	10.07.15	1117
MW-17s	10.06.15	1620
MW-1d	10.08.15	0734
MW-2d	10.08.15	0830
MW-6d	10.07.15	1440
MW-7d	10.08.15	0800
MW-8d	10.06.15	1009
MW-9d	10.06.15	1155
MW-10d	10.08.15	1411
MW-11d	10.08.15	1131
MW-12d	10.08.15	1019
MW-13d	10.06.15	1356
SW1	NS	NS
SW2	NS	NS
SW3	NS	NS
SW4	NS	NS
SW5	NS	NS
SW6	NS	NS
FB1	10.06.15	1635
FB2	10.07.15	1502
FB3	10.08.15	1530
OW-1	NS	NS
OW-2	NS	NS
OW-3	NS	NS
OW-4	10.07.15	1239
Effluent-1	NS	NS
Effluent-2	NS	NS

NS= Not Sampled

Table 31
Staff Gauge Data Summary

Staff Gauge #	Height
SG-1	Dry
SG-2	Dry

Day 1 Onsite: 0735
Day 1 Offsite: 1640

Day 2 Onsite: 0730
Day 2 Offsite: 1515

Day 3 Onsite: 0730
Day 3 Offsite: 1540

SN / rh

Field Notes

TO: File
FROM: Jared Matteucci
DATE: March 30 – April 1, 2016
PROJECT: Lewis Brothers Garage Property
PROJECT NUMBER: 27058
SUBJECT: Groundwater Sampling Activities

1000: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations well located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater-monitoring wells and one (1) of the four (4) observations wells. The general well information is as follows:

Table 1
General Well Information
Wells Sampled via Low Flow / Low Stress Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	Pump Depth (Feet)	Pump Rate (L/min)	Purged (Gallons)
MW-7s	15.34	27.51	21.4	0.33	2.25
MW-8s	6.60	23.52	15.1	0.19	3.0
MW-9s	24.78	39.10	39.1	0.50	4.5
MW-10s	8.25	18.53	13.4	0.10	1.5
MW-11s	3.51	23.54	13.5	0.25	2.0
MW-14s	7.71	19.85	13.8	0.31	5.0
MW-8d	69.10	100.00	84.6	0.50	5.5
MW-9d	69.37	172.00	121.0	0.47	4.0
MW-10d	66.54	186.00	126.3	0.10	8.0
MW-11d	73.03	128.00	100.5	0.34	3.5
MW-12d	65.09	201.00	133.0	0.39	2.5
MW-13d	49.48	182.00	115.7	0.47	4.0

Table 2
General Well Information
Wells Sampled via Hand-Bailing Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	1 Volume (Gallons)	3 Volumes (Gallons)	Purged (Gallons)
MW-1s	--	21.95	--	--	--
MW-2s	12.68	29.60	2.6	7.9	8.0
MW-3s	13.74	28.00	2.6	7.7	8.0
MW-4s	11.18	24.90	2.3	6.9	5.0
MW-5s	10.32	21.31	1.8	5.5	6.0
MW-6s	11.53	16.20	0.78	2.3	1.0
MW-12s	4.69	19.97	2.6	7.7	6.0
MW-13s	15.86	18.18	1.5	4.5	2.5
MW-15s	7.18	19.13	2.0	6.0	4.5
MW-16s	32.71	37.67	0.82	2.5	1.25
MW-17s	16.20	29.20	2.2	6.5	7.0
MW-1d	41.33	68.60	43.0	130.0	35.0
MW-2d	20.10	78.78	93.3	280.0	100.0
MW-6d	58.60	85.20	42.3	127.0	37.0
MW-7d	14.94	60.40	72.3	217.0	75.0
OW-1	5.17	11.58	--	--	--
OW-2	4.56	10.98	--	--	--
OW-3	4.29	10.92	--	--	--
OW-4	3.64	9.95	3.5	10.4	11.0

MW-1s: MW-1s could not be found during the March 2016 sampling event. No sample was collected at the time of the sampling event.

MW-2s: Due to the presence of Separate Phase Liquid (trace), MW-2 was purged without collecting water quality data. A total of 8.0 gallons of water was purged from the well. The well was sampled via a disposable bailer after being allowed to recharge. Strong odorous and visual indications of contamination were observed.

MW-3s: Due to the presence of Separate Phase Liquid (trace), MW-3s was purged without collecting water quality data. A total of 8.0 gallons of water was purged from the well. The well was sampled via a disposable bailer after being allowed to recharge. Strong odorous and visual indications of contamination were observed.

MW-4s: MW-4s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 5.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Strong odorous indications of contamination were observed.

Table 3
Well Purging Data – MW-4s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1139	10.73	6.66	31	0.810	2.16	0.25	Clear
1140	10.16	6.84	-5	0.675	1.70	1.0	Silty
1141	10.19	6.89	-24	0.702	2.62	3.0	Silty
1142	10.43	6.94	-34	0.715	2.83	4.0	Silty
1143	10.66	7.05	-53	0.708	3.98	5.0	Silty

MW-5s: MW-5s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 6.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 4
Well Purging Data – MW-5s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1125	10.62	6.13	117	1.41	1.68	0.25	V. Silty
1126	10.08	6.12	120	1.34	2.56	1.0	V. Silty
1127	9.97	6.16	121	1.29	2.87	2.0	V. Silty
1128	10.13	6.15	125	1.30	2.82	3.0	V. Silty
1129	10.21	6.19	126	1.27	2.86	4.0	V. Silty
1130	10.74	6.29	129	1.24	5.38	5.0	V. Silty
1131	10.77	6.28	131	1.21	6.50	6.0	V. Silty

MW-6s: MW-6s characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 1.0 gallon was extracted from the well. No odorous or visual indications of contamination were observed.

Table 5
Well Purging Data – MW-6s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1111	10.71	6.50	100	1.84	1.82	0.25	Clear
1112	10.53	6.43	102	1.94	2.87	0.50	V. Silty
1113	10.91	6.38	102	1.97	2.90	1.0	V. Silty

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 21.4'. The well was purged and sampled at 330 ml / min. The well maintained steady recharge during the purging activities. A total of 2.25 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 6
Well Purging Data – MW-7s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1310	12.51	6.80	123	1.61	0.0	5.68	15.41
1313	12.83	6.83	114	1.63	0.0	5.41	15.41
1316	12.97	6.85	104	1.64	0.0	5.38	15.41
1319	12.97	6.86	101	1.64	0.0	5.34	15.41
1322	13.05	6.86	97	1.64	0.0	5.35	15.41

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 15.1'. The well was purged and sampled at 190 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 7
Well Purging Data – MW-8s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1047	8.94	6.81	139	0.945	0.0	12.51	7.80
1050	9.19	6.82	138	0.949	0.0	12.43	7.80
1053	9.35	6.82	137	0.954	0.0	12.38	7.80
1056	9.52	6.82	136	0.957	0.0	12.34	7.80
1059	9.49	6.82	135	0.954	0.0	12.31	7.80

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 31.9'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 4.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 8
Well Purging Data – MW-9s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1204	12.35	7.20	113	0.835	0.0	4.22	25.31
1207	12.78	7.12	107	0.844	0.0	4.03	25.30
1210	12.93	7.08	97	0.846	0.0	3.98	25.30
1213	12.95	7.06	91	0.845	0.0	3.97	25.30
1216	13.00	7.04	85	0.844	0.0	3.92	25.30
1219	12.92	7.04	83	0.841	0.0	3.91	25.30
1222	12.95	7.03	80	0.839	0.0	3.90	25.30

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.4'. The well was purged and sampled at 100 ml / min. The well maintained steady recharge during the purging activities. A total of 1.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 9
Well Purging Data – MW-10s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1557	9.92	6.42	172	0.449	0.0	4.50	8.76
1600	11.42	6.43	166	0.470	0.0	4.43	8.77
1603	11.98	6.44	162	0.477	0.0	4.35	8.75
1606	12.17	6.45	157	0.479	0.0	4.35	8.75
1609	12.42	6.46	151	0.482	0.0	4.29	8.75
1612	12.73	6.47	147	0.506	0.0	3.67	8.75
1615	12.67	6.49	143	0.532	0.0	3.00	8.75
1618	12.96	6.48	141	0.569	0.0	2.55	8.75
1621	13.39	6.49	137	0.643	0.0	1.96	8.75
1624	13.48	6.49	130	0.728	0.0	1.75	8.75
1627	13.15	6.48	117	0.860	0.0	1.69	8.75
1630	13.11	6.47	96	0.858	0.0	2.14	8.75
1633	13.18	6.50	65	0.950	0.0	2.01	8.75
1636	13.29	6.52	50	0.995	0.0	2.02	8.75
1639	13.28	6.51	35	1.04	0.0	1.98	8.75
1642	13.21	6.53	20	1.03	0.0	2.07	8.75

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.5'. The well was purged and sampled at 250 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 10
Well Purging Data – MW-11s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1436	9.57	6.99	-73	0.426	0.0	0.40	3.41
1439	9.79	6.96	-77	0.428	0.0	0.32	3.41
1442	9.90	6.95	-79	0.430	0.0	0.30	3.41
1445	10.05	6.94	-80	0.432	0.0	0.28	3.41

MW-12s: MW-12s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 6.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Slight odorous indications of contamination were observed.

Table 11
Well Purging Data – MW-12s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1357	12.03	6.14	159.9	0.391	3.30	0.50	V. Silty
1405	11.18	6.13	160.4	0.434	3.31	2.0	V. Silty
1410	10.65	6.15	162.0	0.449	4.77	4.5	V. Silty
1415	11.61	6.15	154.5	0.548	6.85	6.0	V. Silty

MW-13s: MW-13s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 12
Well Purging Data – MW-13s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1238	10.63	6.95	117.8	0.338	5.12	0.5	Clear
1239	10.45	6.86	124.1	0.320	5.26	1.0	V. Silty
1240	10.41	6.78	125.8	0.343	5.77	1.5	V. Silty
1241	10.62	6.72	127.2	0.363	6.15	2.0	V. Silty
1246	10.92	6.74	128.5	0.370	7.95	2.5	V. Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.8'. The well was purged and sampled at 310 ml / min. The well maintained steady recharge during the purging activities. A total of 5.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 13
Well Purging Data – MW-14s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1420	9.34	6.29	162	0.116	0.0	7.41	8.84
1423	9.56	6.20	167	0.117	0.0	7.50	8.84
1426	9.58	6.11	172	0.112	0.0	7.61	8.84
1429	9.64	6.06	174	0.111	0.0	7.61	8.84
1432	9.74	6.01	177	0.109	0.0	7.58	8.84
1435	9.77	5.97	180	0.108	0.0	7.55	8.84
1438	9.83	5.93	181	0.107	0.0	7.56	8.84
1441	9.86	5.89	182	0.106	0.0	7.56	8.84
1444	9.93	5.86	183	0.105	0.0	7.49	8.84
1447	9.97	5.84	184	0.105	0.0	7.50	8.84
1450	9.91	5.83	186	0.104	0.0	7.50	8.84
1453	9.98	5.81	187	0.104	0.0	7.50	8.84
1456	10.05	5.80	188	0.104	0.0	7.48	8.84
1459	10.07	5.78	190	0.104	0.0	7.48	8.84
1502	10.04	5.77	190	0.103	0.0	7.50	8.84
1505	10.01	5.76	192	0.103	0.0	7.56	8.84

MW-15s: MW-15s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. The well was evacuated upon completion of the purging activities. A total of 4.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 14
Well Purging Data – MW-15s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1203	8.91	7.18	77.7	0.337	7.68	0.5	V. Silty
1204	8.67	7.04	88.1	0.347	7.77	1.5	V. Silty
1205	8.99	6.99	92.1	0.361	7.94	3.0	V. Silty
1207	9.04	6.98	94.7	0.381	7.80	4.0	V. Silty
1210	8.93	6.97	98.3	0.404	8.38	4.5	V. Silty

MW-16s: MW-16s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 1.25 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 15
Well Purging Data – MW-16s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1147	11.55	6.89	89.6	1.170	3.78	0.25	Silty
1149	11.58	6.93	87.0	1.189	2.87	1.0	V. Silty
1150	11.76	6.97	82.8	1.194	2.98	1.25	V. Silty

MW-17s: MW-17s was characterized as having effluent that was too turbid for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 7.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 16
Well Purging Data – MW-17s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1120	10.65	6.72	66.0	0.593	3.59	0.5	V. Silty
1121	10.82	6.65	73.1	0.592	3.46	1.0	V. Silty
1123	10.67	6.59	80.5	0.611	3.65	3.0	V. Silty
1126	10.85	6.56	86.3	0.600	3.75	5.0	V. Silty
1131	11.16	6.56	90.6	0.591	4.59	7.0	V. Silty

MW-1d: MW-1d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 35.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 17
Well Purging Data – MW-1d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0806	13.45	7.35	184	0.363	2.97	5.0	Clear
0807	13.02	7.39	178	0.361	3.68	10.0	Clear
0809	12.27	7.40	178	0.349	3.62	20.0	Clear
0811	12.20	7.45	174	0.314	5.26	30.0	Clear
0812	12.26	7.50	173	0.312	6.92	35.0	Clear

MW-2d: MW-2d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 100.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 18
Well Purging Data – MW-2d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0928	11.82	7.07	44	0.664	3.02	5.0	Cloudy
0930	11.64	6.92	17	0.742	2.26	15.0	Cloudy
0931	11.65	6.84	11	0.753	2.23	25.0	Cloudy
0932	11.69	6.81	10	0.753	2.03	35.0	V. Cloudy
0934	11.87	6.77	1	0.724	2.02	45.0	V. Cloudy
0935	12.04	6.92	-23	0.489	1.83	55.0	V. Cloudy
0937	12.18	7.03	-51	0.438	2.22	65.0	V. Cloudy
0938	12.18	7.10	-65	0.425	2.15	75.0	V. Cloudy
0939	12.16	7.17	-75	0.418	2.03	85.0	V. Cloudy
0940	12.23	7.20	-77	0.422	2.18	95.0	V. Cloudy
0941	12.31	7.20	-55	0.437	4.21	100.0	V. Cloudy

MW-6d: MW-6d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 37.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 19
Well Purging Data – MW-6d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0851	11.99	7.38	174	0.502	6.48	5.0	Cloudy
0852	11.60	7.50	172	0.453	6.12	10.0	Cloudy
0853	11.78	7.58	170	0.443	6.10	15.0	Cloudy
0853	11.84	7.62	170	0.432	6.95	20.0	Cloudy
0854	11.90	7.62	170	0.433	5.73	25.0	Cloudy
0855	12.05	7.64	168	0.432	7.38	30.0	Cloudy
0856	12.30	7.64	168	0.427	7.01	37.0	Cloudy

MW-7d: MW-7d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 75.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Slight odorous indications of contamination were observed.

Table 20
Well Purging Data – MW-7d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0942	11.48	7.32	8.2	16.68	2.18	5.0	Cloudy
0947	11.79	8.09	-10.9	7.700	1.51	15.0	Cloudy
0953	12.08	8.35	-14.4	7.070	1.26	25.0	V. Cloudy
0959	12.15	8.46	-20.0	6.745	1.01	35.0	V. Cloudy
1007	12.14	8.54	-28.4	6.463	1.12	45.0	Cloudy
1016	12.21	8.61	-42.2	6.319	1.08	55.0	Cloudy
1027	12.09	8.06	-171.0	5.338	0.85	65.0	Cloudy
1038	12.19	7.82	-154.2	5.434	1.00	70.0	Cloudy
1046	12.66	7.63	-67.5	2.679	4.48	75.0	Cloudy

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 84.6'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 5.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 21
Well Purging Data – MW-8d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0756	11.49	7.49	163	0.419	0.0	0.93	71.16
0759	12.63	7.36	161	0.432	0.0	0.78	71.04
0802	13.03	7.30	156	0.434	0.0	0.70	70.95
0805	13.29	7.27	147	0.438	0.0	0.62	70.86
0808	13.32	7.25	138	0.437	0.0	0.57	70.81
0811	13.22	7.24	130	0.436	0.0	0.54	70.78
0814	13.32	7.23	120	0.437	0.0	0.53	70.78
0817	13.42	7.23	112	0.437	0.0	0.49	70.78

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 121.0'. The well was purged and sampled at 470 ml / min. The well maintained steady recharge during the purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 22
Well Purging Data – MW-9d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0857	10.50	7.08	72	0.426	0.0	0.85	69.06
0900	10.54	7.06	58	0.425	0.0	0.82	69.06
0903	10.44	7.04	52	0.424	0.0	0.80	69.06
0906	10.42	7.03	44	0.423	0.0	0.74	69.06
0909	10.44	7.03	29	0.423	0.0	0.73	69.06
0912	10.45	7.02	29	0.423	0.0	0.66	69.06

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 176.0'. The well was purged and sampled at 100 ml / min. The well maintained steady recharge during the purging activities. A total of 8.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 23
Well Purging Data – MW-10d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1557	12.24	7.11	-27	0.412	0.0	0.44	76.11
1600	12.14	7.09	-24	0.411	0.0	0.48	76.11
1603	11.87	7.08	-22	0.408	0.0	0.50	76.11
1606	11.93	7.07	-20	0.409	0.0	0.51	76.11

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 340 ml / min. The well maintained steady recharge during the purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 24
Well Purging Data – MW-11d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1341	11.98	7.49	70	0.343	0.0	1.80	73.25
1344	12.42	7.41	52	0.346	0.0	1.72	73.25
1347	12.76	7.35	43	0.347	0.0	1.78	73.25
1350	12.81	7.31	38	0.347	0.0	1.79	73.25
1353	12.95	7.29	36	0.347	0.0	1.76	73.25
1356	12.80	7.26	34	0.345	0.0	1.66	73.25
1359	12.81	7.24	34	0.345	0.0	1.60	73.25
1402	12.85	7.23	33	0.345	0.0	1.52	73.25
1405	12.86	7.22	32	0.345	0.0	1.46	73.25

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 133.0'. The well was purged and sampled at 390 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 25
Well Purging Data – MW-12d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1351	12.71	7.18	112	0.440	0.0	0.86	65.19
1354	12.95	7.17	93	0.442	0.0	0.79	65.19
1357	13.00	7.17	80	0.443	0.0	0.74	65.19
1400	13.04	7.17	69	0.443	0.0	0.70	65.19
1403	12.89	7.17	59	0.439	0.0	0.66	65.19
1406	12.80	7.16	51	0.440	0.0	0.62	65.19

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 115.7'. The well was purged and sampled at 470 ml / min. The well maintained steady recharge during the purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 26
Well Purging Data – MW-13d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1250	11.01	7.65	63	0.267	0.0	1.18	49.65
1253	11.14	7.52	44	0.268	0.0	1.02	49.65
1256	11.07	7.45	29	0.267	0.0	0.94	49.65
1259	10.99	7.38	15	0.266	0.0	0.90	49.65
1302	11.00	7.34	8	0.266	0.0	0.86	49.65
1305	11.02	7.33	3	0.266	0.0	0.85	49.65
1308	11.07	7.30	-2	0.267	0.0	0.84	49.65
1311	11.11	7.29	-6	0.267	0.0	0.83	49.65
1314	11.00	7.28	-9	0.266	0.0	0.82	49.65

OW-4: OW-4 was purged and sampled utilizing hand bailing methods. A total of 11.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 27
Well Purging Data – OW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1045	11.17	7.33	20	0.312	1.91	1.0	Cloudy
1046	10.03	7.38	23	0.292	1.97	2.5	Cloudy
1047	9.89	7.40	26	0.293	2.01	5.0	Cloudy
1048	9.75	7.42	31	0.294	2.25	7.5	Cloudy
1050	10.67	7.45	47	0.299	2.57	11.0	Cloudy

Table 28
Final Sample Data Summary
Wells Sampled via Hand-Bailing Techniques

Location	pH (SU)	Temp. (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth (Feet)
MW1s	--	--	--	--	--	--
MW2s	--	--	--	--	--	13.89
MW3s	--	--	--	--	--	13.29
MW4s	6.85	11.86	0.688	2.97	-35	11.21
MW5s	6.76	10.67	1.01	2.87	-9	11.90
MW6s	6.14	10.88	2.01	2.22	82	11.53
MW12s	6.83	8.98	0.632	5.64	111.1	6.16
MW13s	6.75	13.05	0.411	7.84	114.8	16.94
MW15s	7.42	11.15	0.427	7.61	51.6	13.39
MW16s	7.01	12.75	1.153	4.06	71.4	32.72
MW17s	6.64	11.52	0.612	6.70	69.2	16.60
MW1d	7.41	13.95	0.365	4.30	96	62.20
MW2d	6.70	15.45	0.800	5.82	122	54.05
MW6d	7.38	13.86	0.365	4.08	94	77.94
MW7d Dup	6.91	12.65	1.164	6.83	6.2	46.25
MW7d	7.01	12.73	1.148	3.05	-14.6	37.21
OW4	7.45	10.19	0.296	2.29	52	3.69
SW1	6.58	7.35	0.442	10.53	126.7	--
SW2	6.49	6.50	0.441	10.94	133.0	--
SW3	6.33	5.61	0.438	14.20	130.5	--
SW4	--	--	--	--	--	--
SW5	--	--	--	--	--	--
SW6	6.68	4.42	0.557	13.69	112.0	--

Table 29
Final Sample Data Summary
Wells Sampled via Low Flow / Low Stress Techniques

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
MW7s	13.05	6.86	97	1.64	0.0	5.35
MW8s	9.49	6.82	135	0.954	0.0	12.31
MW9s	12.95	7.03	80	0.839	0.0	3.90
MW10s	13.21	6.53	20	1.03	0.0	2.07
MW11s	10.05	6.94	-80	0.432	0.0	0.28
MW14s	10.01	5.76	192	0.103	0.0	7.56
MW8d	13.42	7.23	112	0.437	0.0	0.49
MW9d	10.45	7.02	29	0.423	0.0	0.66
MW10d	11.93	7.07	-20	0.409	0.0	0.51
MW11d	12.86	7.22	32	0.345	0.0	1.46
MW12d	12.80	7.16	51	0.440	0.0	0.62
MW13d	11.00	7.28	-9	0.266	0.0	0.82

Table 30
Metals Data Summary Table

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-1s	--	--	--	--
MW-2s	--	--	--	--
MW-3s	--	--	--	--
MW-4s	--	--	--	--
MW-5s	--	--	--	--
MW-6s	--	--	--	--
MW-7s	0.3	0.14	3.0	16
MW-8s	0.0	0.00	0.1	20
MW-9s	0.2	0.26	0.0	37
MW-10s	0.0	0.00	11.4	6
MW-11s	6.5	1.97	0.0	0
MW-12s	3.1	0.14	0.0	7
MW-13s	0.2	0.03	0.0	11
MW-14s	0.0	0.60	0.0	9
MW-15s	--	--	--	--
MW-16s	2.2	0.60	0.00	14
MW-17s	0.4	0.13	0.00	43
MW-1d	0.4	0.00	0.0	7
MW-2d	3.6	0.04	0.0	10
MW-6d	0.0	0.05	0.4	7
MW-7d	4.4	0.61	0.0	15
MW-8d	0.4	0.02	1.1	13
MW-9d	0.2	0.03	0.6	14
MW-10d	0.0	0.13	0.2	58
MW-11d	0.0	0.00	1.0	6
MW-12d	0.0	0.02	3.3	5
MW-13d	0.3	0.00	1.5	6

Table 31
Sample Log

Location	Date	Time
MW-1s	NS	NS
MW-2s	04.01.16	1020
MW-3s	04.01.16	1035
MW-4s	04.01.16	1530
MW-5s	04.01.16	1150
MW-6s	04.01.16	1212
MW-7s	03.30.16	1325
MW-8s	03.30.16	1102
MW-9s	03.30.16	1225
MW-10s	03.30.16	1645
MW-11s	04.01.16	1448
MW-12s	03.31.16	1705
MW-13s	03.31.16	1640
MW-14s	03.30.16	1508
MW-15s	03.31.16	1555
MW-16s	03.31.16	1535
MW-17s	03.31.16	1510
MW-1d	04.01.16	1400
MW-2d	04.01.16	1620
MW-6d	04.01.16	1410
MW-7d	03.31.16	1740
MW-8d	03.31.16	0820
MW-9d	03.31.16	0915
MW-10d	04.01.16	1609
MW-11d	04.01.16	1408
MW-12d	03.31.16	1419
MW-13d	03.31.16	1317
SW1	03.30.16	1042
SW2	03.30.16	1038
SW3	03.30.16	1033
SW4	NS	NS
SW5	NS	NS
SW6	03.30.16	1020
FB1	03.30.16	1650
FB2	03.31.16	1715
FB3	04.01.16	1555
OW-1	NS	NS
OW-2	NS	NS
OW-3	NS	NS
OW-4	04.01.16	1100
Effluent-1	NS	NS
Effluent-2	NS	NS

NS= Not Sampled

Table 32
Staff Gauge Data Summary

Staff Gauge #	Height
SG-1	0.45
SG-2	0.60

Day 1 Onsite: 1000
Day 1 Offsite: 1715

Day 2 Onsite: 0730
Day 2 Offsite: 1730

Day 3 Onsite: 0745
Day 3 Offsite: 1700

SN / jm

Field Notes

TO: File
FROM: Jared Matteucci
DATE: June 22 - 23, 2016
PROJECT: Lewis Brothers Garage Property
PROJECT NUMBER: 27058
SUBJECT: Groundwater Sampling Activities

0530: Arrived onsite and initiated site activities with the collection of static water levels from the twenty-seven (27) groundwater monitoring wells and four (4) observations well located on and adjacent to the subject property. The well volumes for those wells not suited for low flow sampling were calculated. The purpose of the field activities was to sample the twenty-seven (27) groundwater-monitoring wells and one (1) of the four (4) observations wells. The general well information is as follows:

Table 1
General Well Information
Wells Sampled via Low Flow / Low Stress Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	Pump Depth (Feet)	Pump Rate (L/min)	Purged (Gallons)
MW-7s	16.66	27.51	22.1	0.40	2.0
MW-8s	10.58	23.52	17.1	0.13	1.0
MW-9s	26.08	39.10	32.6	0.35	2.0
MW-10s	9.41	18.53	14.0	0.18	2.5
MW-11s	4.73	23.54	14.1	0.46	1.5
MW-14s	9.21	19.85	14.5	0.27	3.0
MW-8d	71.84	100.00	85.9	0.29	3.0
MW-9d	72.68	172.00	162.0	0.43	4.0
MW-10d	68.96	186.00	176.0	0.20	11.0
MW-11d	74.74	128.00	118.0	0.13	1.5
MW-12d	66.76	201.00	191.0	0.50	2.5
MW-13d	51.11	182.00	172.0	0.50	4.5

Table 2
General Well Information
Wells Sampled via Hand-Bailing Techniques

Well #	S.W.L. (Feet)	Total Depth (Feet)	1 Volume (Gallons)	3 Volumes (Gallons)	Purged (Gallons)
MW-1s	13.93	21.95	1.33	4.0	4.0
MW-2s	15.41	29.60	2.4	7.1	8.0
MW-3s	14.39	28.00	2.3	6.8	7.0
MW-4s	11.41	24.90	0.45	1.4	5.0
MW-5s	11.92	21.31	1.6	4.7	5.0
MW-6s	13.50	16.20	0.45	1.4	1.5
MW-12s	7.41	19.97	2.1	6.3	3.5
MW-13s	16.07	18.18	1.4	4.1	2.0
MW-15s	10.28	19.13	1.5	4.5	3.0
MW-16s	32.75	37.67	0.82	2.5	1.5
MW-17s	17.47	29.20	1.95	5.9	6.0
MW-1d	41.54	68.60	43.0	129.0	40.0
MW-2d	19.95	78.78	93.5	280.0	90.0
MW-6d	60.84	85.20	38.7	116.0	37.0
MW-7d	16.12	60.40	70.4	211.0	90.0
OW-1	4.70	11.58	--	--	--
OW-2	4.04	10.98	--	--	--
OW-3	3.83	10.92	--	--	--
OW-4	3.17	9.95	4.4	13.2	15.0

MW-1s: MW-1s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 4.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 3
Well Purging Data – MW-1s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0735	10.48	5.98	165	1.503	1.97	0.25	Clear
0737	10.39	6.07	148	1.550	2.35	1.0	V. Silty
0739	10.37	6.15	136	1.441	2.54	2.0	V. Silty
0741	10.37	6.19	103	1.312	3.25	3.0	V. Silty
0743	10.34	6.27	43	1.042	3.07	4.0	V. Silty

MW-2s: Due to the presence of Separate Phase Liquid (trace), MW-2 was purged without collecting water quality data. A total of 8.0 gallons of water was purged from the well. The well was sampled via a disposable bailer after being allowed to recharge. Strong odorous and visual indications of contamination were observed.

MW-3s: Due to the presence of Separate Phase Liquid (trace), MW-3s was purged without collecting water quality data. A total of 7.0 gallons of water was purged from the well. The well was sampled via a disposable bailer after being allowed to recharge. Strong odorous and visual indications of contamination were observed.

MW-4s: MW-4s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 5.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 4
Well Purging Data – MW-4s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1025	12.44	7.38	-49.2	0.692	1.15	0.25	Silty
1028	12.35	7.24	-61.8	0.862	1.14	1.0	Silty
1032	11.87	7.19	-71.5	0.896	1.05	3.0	Silty
1036	11.74	7.16	-85.7	0.885	4.01	5.0	Silty

MW-5s: MW-5s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 5.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 5
Well Purging Data – MW-5s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0724	10.77	6.51	162	0.801	4.32	0.25	Clear
0725	11.04	6.33	165	0.864	4.02	1.0	V. Silty
0727	10.88	6.21	165	0.938	3.61	2.0	V. Silty
0729	10.76	6.14	166	0.936	4.16	4.0	V. Silty
0731	10.55	6.12	167	0.946	4.27	5.0	V. Silty

MW-6s: MW-6s characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 1.5 gallon was extracted from the well. No odorous or visual indications of contamination were observed.

Table 6
Well Purging Data – MW-6s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0758	12.44	6.50	53.2	2.362	1.24	0.25	Clear
0800	12.39	6.45	57.8	2.569	2.48	0.50	V. Silty
0804	12.01	6.45	63.0	2.616	2.72	1.0	V. Silty
0808	11.14	6.49	66.1	2.514	4.04	1.5	V. Silty

MW-7s: MW-7s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 22.1'. The well was purged and sampled at 400 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 7
Well Purging Data – MW-7s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1051	14.19	7.67	99	1.32	--	6.05	16.83
1054	14.15	7.70	97	1.32	--	6.04	16.83
1057	14.19	7.71	95	1.32	--	6.02	16.83
1100	14.23	7.71	93	1.31	--	5.96	16.83

MW-8s: MW-8s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 17.1'. The well was purged and sampled at 130 ml / min. The well maintained steady recharge during the purging activities. A total of 1.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 8
Well Purging Data – MW-8s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0820	15.37	7.39	96	1.02	--	4.39	11.31
0823	15.06	7.40	90	1.00	--	3.92	11.31
0826	15.13	7.40	85	1.01	--	3.88	11.31
0829	15.44	7.40	80	1.01	--	3.80	11.31

MW-9s: MW-9s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 32.6'. The well was purged and sampled at 350 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 9
Well Purging Data – MW-9s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1012	14.45	7.82	82	0.793	--	4.17	26.47
1015	14.67	7.82	78	0.796	--	4.17	26.47
1018	14.74	7.83	73	0.798	--	4.15	26.47
1021	14.79	7.83	70	0.801	--	4.15	26.47

MW-10s: MW-10s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 14.0'. The well was purged and sampled at 180 ml / min. The well maintained steady recharge during the purging activities. A total of 4.5 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 10
Well Purging Data – MW-10s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1356	12.74	7.36	42	0.940	--	0.45	10.73
1359	13.48	7.28	27	1.16	--	0.46	10.72
1402	13.39	7.39	5	1.00	--	0.55	10.72
1405	14.62	7.27	-6	1.33	--	0.45	10.72
1408	15.04	7.37	-22	1.39	--	0.43	10.71
1411	14.50	7.41	-27	1.26	--	0.45	10.71
1414	15.07	7.37	-31	1.50	--	0.44	10.71
1417	15.27	7.34	-39	1.66	--	0.43	10.71
1420	15.74	7.39	-45	1.72	--	0.42	10.71
1423	15.50	7.44	-54	1.74	--	0.43	10.71
1426	15.58	7.44	-59	1.77	--	0.41	10.71
1429	15.63	7.45	-66	1.85	--	0.41	10.71

MW-11s: MW-11s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 14.1'. The well was purged and sampled at 460 ml / min. The well maintained steady recharge during the purging activities. A total of 1.5 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 11
Well Purging Data – MW-11s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1538	11.17	7.75	-60	0.435	--	0.41	5.10
1541	11.36	7.72	-72	0.438	--	0.37	5.10
1544	11.58	7.67	-78	0.442	--	0.36	5.10
1547	11.75	7.67	-82	0.444	--	0.35	5.10
1550	11.79	7.66	-84	0.447	--	0.35	5.10

MW-12s: MW-12s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 3.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 12
Well Purging Data – MW-12s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0824	13.32	6.41	154.4	0.535	2.22	0.25	V. Silty
0837	11.38	6.41	134.0	0.930	1.84	1.0	V. Silty
0840	11.57	6.48	125.2	0.799	2.85	2.0	V. Silty
0843	11.58	6.50	113.0	0.834	2.53	3.0	V. Silty
0846	12.35	6.62	98.5	0.855	7.18	3.5	V. Silty

MW-13s: MW-13s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 2.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 13
Well Purging Data – MW-13s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0646	11.39	6.53	164.1	0.278	3.95	0.25	Clear
0647	11.26	6.41	163.2	0.281	4.44	1.0	V. Silty
0648	11.34	6.37	164.4	0.285	5.04	2.0	V. Silty

MW-14s: MW-14s was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 14.5'. The well was purged and sampled at 270 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 14
Well Purging Data – MW-14s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1137	12.62	6.52	186	0.124	--	5.56	10.39
1140	12.91	6.36	188	0.122	--	5.70	10.41
1143	13.13	6.27	190	0.120	--	5.82	10.38
1146	13.18	6.21	193	0.193	--	5.91	10.38
1149	13.17	6.17	195	0.115	--	6.02	10.38
1152	13.24	6.13	196	0.114	--	6.10	10.38
1155	13.32	6.11	197	0.113	--	6.20	10.38
1158	13.43	6.09	198	0.112	--	6.26	10.38
1201	13.53	6.08	198	0.112	--	6.25	10.38
1204	13.59	6.09	198	0.112	--	6.24	10.38

MW-15s: MW-15s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. The well was evacuated upon completion of the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 15
Well Purging Data – MW-15s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1302	10.59	7.51	11.9	0.451	7.27	0.25	V. Silty
1304	10.21	7.38	19.0	0.437	7.37	1.0	V. Silty
1305	10.14	7.25	26.4	0.445	7.98	2.0	V. Silty
1307	9.78	7.13	34.3	0.430	7.96	3.0	V. Silty

MW-16s: MW-16s was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 1.5 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 16
Well Purging Data – MW-16s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1251	12.96	7.24	-1.9	1.234	2.45	0.25	Clear
1253	11.72	7.13	4.5	1.206	3.55	1.0	V. Silty
1256	11.65	7.06	8.8	1.209	3.51	1.5	V. Silty

MW-17s: MW-17s was characterized as having effluent that was too turbid for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged and sampled utilizing hand bailing methods. A total of 6.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 17
Well Purging Data – MW-17s

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1401	11.85	7.49	54.0	0.790	2.88	0.5	V. Silty
1402	11.55	7.24	67.5	0.710	2.80	1.0	V. Silty
1403	11.47	7.06	75.0	0.698	3.11	2.0	V. Silty
1404	11.25	6.89	79.2	0.749	3.43	3.0	V. Silty
1406	11.29	6.83	78.7	0.790	3.95	4.0	V. Silty
1409	11.11	6.81	77.6	0.816	4.23	6.0	V. Silty

MW-1d: MW-1d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 40.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 18
Well Purging Data – MW-1d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0700	11.20	7.35	131	0.435	3.96	1.0	Clear
0701	11.12	7.13	142	0.433	4.04	5.0	Clear
0702	11.07	6.97	148	0.425	3.44	10.0	Clear
0703	11.11	6.87	152	0.411	3.78	20.0	Clear
0704	11.12	6.81	152	0.379	3.51	30.0	Clear
0705	11.17	6.77	154	0.375	3.62	40.0	Clear

MW-2d: MW-2d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 90.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 19
Well Purging Data – MW-2d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0918	12.61	7.16	-84.2	1.037	3.23	1.0	Silty
0919	12.25	7.02	-91.9	1.038	1.82	5.0	Silty
0920	12.21	6.96	-88.1	1.035	4.06	10.0	Cloudy
0923	13.14	6.93	-88.6	1.037	2.85	20.0	Cloudy
0926	13.18	6.94	-101.5	1.039	1.18	30.0	Cloudy
0928	12.99	6.94	-106.8	1.041	1.85	40.0	Cloudy
0931	13.70	6.94	-98.9	1.039	2.57	50.0	Cloudy
0933	13.09	6.94	-105.1	1.044	1.64	60.0	Cloudy
0936	12.61	6.94	-112.0	1.043	1.43	70.0	Cloudy
0939	12.67	6.95	-113.2	1.041	1.72	80.0	Cloudy
0941	12.95	6.94	-112.8	1.041	1.97	90.0	Cloudy

MW-6d: MW-6d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 37.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. No odorous or visual indications of contamination were observed.

Table 20
Well Purging Data – MW-6d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
0841	13.22	7.00	72.8	1.216	9.09	1.0	Silty
0842	11.81	7.11	68.6	1.319	5.90	5.0	Silty
0843	11.72	7.32	60.4	0.622	6.41	10.0	Cloudy
0845	11.95	7.33	66.3	0.539	5.87	20.0	Cloudy
0846	12.31	7.41	71.2	0.541	5.60	30.0	Cloudy
0847	12.72	7.41	70.3	0.546	6.71	37.0	Cloudy

MW-7d: MW-7d was characterized as having insufficient recharge for low flow / low stress sampling methods (*ASTM D 6771-02*). The well was purged utilizing a submersible pump and sampled with a disposable bailer upon recharge. A total of 90.0 gallons was extracted from the well. The well was evacuated upon completion of the purging activities. Odorous indications of contamination were observed.

Table 21
Well Purging Data – MW-7d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1036	13.28	6.88	-121.3	4.889	1.71	1.0	Black
1038	13.34	7.09	-128.0	3.910	1.36	5.0	Cloudy
1041	13.28	7.18	-128.2	2.857	1.32	10.0	Cloudy
1048	12.64	7.37	-155.1	2.119	1.14	20.0	Cloudy
1056	12.77	7.44	-176.1	2.017	0.99	30.0	Cloudy
1103	13.25	7.44	-186.2	1.998	0.80	40.0	Black
1113	13.47	7.45	-170.2	1.955	0.83	50.0	Cloudy
1125	12.80	7.45	-165.5	1.922	0.86	60.0	Cloudy
1138	13.07	7.34	-161.4	1.826	0.65	70.0	Cloudy
1159	13.24	7.24	-123.9	1.454	0.97	80.0	Cloudy
1222	13.81	6.97	-82.2	1.158	5.48	90.0	Cloudy

MW-8d: MW-8d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 85.9'. The well was purged and sampled at 290 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 22
Well Purging Data – MW-8d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0634	13.88	8.03	82	0.443	--	1.12	73.06
0637	14.48	8.06	40	0.451	--	1.02	73.06
0640	14.64	8.05	33	0.452	--	0.96	73.06
0643	14.58	8.05	32	0.451	--	0.93	73.06
0646	14.46	8.05	34	0.448	--	0.91	73.06

MW-9d: MW-9d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 162.0'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge during the purging activities. A total of 4.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 23
Well Purging Data – MW-9d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0906	12.78	8.15	76	0.436	--	0.58	72.74
0909	12.90	8.06	63	0.438	--	0.54	72.78
0912	13.08	7.98	56	0.441	--	0.51	72.78
0915	13.02	7.94	50	0.440	--	0.50	72.78
0918	13.07	7.92	47	0.439	--	0.48	72.78
0921	13.00	7.90	45	0.437	--	0.45	72.78
0924	13.00	7.88	40	0.437	--	0.46	72.78
0927	13.00	7.87	37	0.436	--	0.45	72.78
0930	13.11	7.86	35	0.43	--	0.44	72.78

MW-10d: MW-10d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 176.0'. The well was purged and sampled at 200 ml / min. The well maintained steady recharge during the purging activities. A total of 11.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 24
Well Purging Data – MW-10d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1301	12.46	7.76	52	0.419	--	0.46	83.03
1304	12.23	7.77	48	0.417	--	0.47	83.03
1307	12.16	7.77	44	0.416	--	0.52	83.03
1310	11.99	7.78	38	0.415	--	0.57	83.03
1313	12.01	7.79	35	0.414	--	0.57	83.03

MW-11d: MW-11d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 118.0'. The well was purged and sampled at 140 ml / min. The well maintained steady recharge during the purging activities. A total of 1.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 25
Well Purging Data – MW-11d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1458	12.66	8.47	-2	0.341	--	0.79	73.50
1501	12.96	8.28	-6	0.343	--	0.77	73.50
1504	13.07	8.18	-11	0.343	--	0.81	73.50
1507	13.40	8.13	-13	0.343	--	0.85	73.53
1510	13.52	8.09	-15	0.345	--	0.91	73.53
1513	13.94	8.06	-17	0.347	--	0.96	73.53
1516	14.20	8.04	-18	0.349	--	0.99	73.53
1519	14.27	8.03	-19	0.350	--	1.04	73.53
1522	14.30	8.02	-19	0.348	--	1.04	73.53

MW-12d: MW-12d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 191.0'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 26
Well Purging Data – MW-12d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0851	11.22	8.11	134	0.430	--	0.91	67.42
0854	11.62	8.09	129	0.434	--	0.80	67.40
0857	11.80	8.08	126	0.436	--	0.75	67.38
0900	11.84	8.08	121	0.437	--	0.70	67.38
0903	11.88	8.07	118	0.438	--	0.67	67.38

MW-13d: MW-13d was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 132.0'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 4.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 27
Well Purging Data – MW-13d

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0718	11.00	8.68	125	0.268	--	1.13	51.79
0721	11.06	8.51	124	0.269	--	1.11	51.74
0724	11.01	8.38	118	0.269	--	1.13	51.70
0727	11.00	8.29	112	0.268	--	1.11	51.67
0730	10.97	8.24	100	0.268	--	1.09	51.65
0733	10.99	8.22	87	0.268	--	1.08	51.65
0736	11.01	8.19	81	0.268	--	1.07	51.65
0739	11.00	8.18	75	0.268	--	1.08	51.65
0741	11.04	8.17	70	0.269	--	1.06	51.65

OW-4: OW-4 was purged and sampled utilizing hand bailing methods. A total of 15.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 28
Well Purging Data – OW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1009	15.97	7.55	-70.8	0.432	1.57	0.5	Clear
1010	15.36	7.54	-69.9	0.418	1.53	1.0	Clear
1011	15.36	7.52	-68.0	0.416	1.44	2.0	Clear
1013	14.95	7.53	-67.2	0.410	1.72	5.0	Cloudy
1016	14.67	7.53	-65.4	0.408	1.87	10.0	Cloudy
1017	14.49	7.56	-64.1	0.404	1.82	15.0	Cloudy

Table 29
Final Sample Data Summary
Wells Sampled via Hand-Bailing Techniques

Location	pH (SU)	Temp. (°C)	Conductivity (mS/cm)	D.O. (mg/L)	ORP (mV)	Sample Depth (Feet)
MW1s	6.44	13.56	0.870	2.11	7.5	14.35
MW2s	--	--	--	--	--	15.82
MW3s	--	--	--	--	--	15.96
MW4s	7.14	13.43	0.875	2.54	-4.4	11.92
MW5s	6.70	12.50	0.905	3.02	79.5	12.32
MW6s	6.48	13.82	2.513	3.03	15.3	13.82
MW12s	6.81	14.22	0.358	3.64	62.4	8.09
MW13s	6.94	13.81	0.327	6.98	99.0	17.13
MW15s	7.87	12.96	0.512	8.10	23.3	15.97
MW16s	7.55	12.39	1.198	3.77	41.6	35.35
MW17s	7.14	13.03	0.805	4.53	83.9	21.87
MW1d	7.42	14.04	0.422	5.60	7.2	64.21
MW2d	7.21	14.06	1.001	6.70	19.1	59.56
MW6d	7.71	12.73	0.443	5.20	19.1	79.90
MW7d Dup	--	--	--	--	--	--
MW7d	7.62	12.90	1.118	6.51	-42.4	45.16
OW4	7.09	16.64	0.535	2.72	3.3	3.29
SW1	--	--	--	--	--	--
SW2	--	--	--	--	--	--
SW3	--	--	--	--	--	--
SW4	--	--	--	--	--	--
SW5	--	--	--	--	--	--
SW6	--	--	--	--	--	--

Table 30
Final Sample Data Summary
Wells Sampled via Low Flow / Low Stress Techniques

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)
MW7s	14.23	7.71	93	1.31	--	5.96
MW8s	15.44	7.40	80	1.01	--	3.80
MW9s	14.79	7.83	70	0.801	--	4.15
MW10s	15.63	7.45	-66	1.85	--	0.41
MW11s	11.79	7.66	-84	0.447	--	0.35
MW14s	13.59	6.09	198	0.112	--	6.24
MW8d	14.46	8.05	34	0.448	--	0.91
MW9d	13.11	7.86	35	0.43	--	0.44
MW10d	12.01	7.79	35	0.414	--	0.57
MW11d	14.30	8.02	-19	0.348	--	1.04
MW12d	11.88	8.07	118	0.438	--	0.67
MW13d	11.04	8.17	70	0.269	--	1.06

Table 31
Metals Data Summary Table

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-1s	--	--	--	--
MW-2s	--	--	--	--
MW-3s	--	--	--	--
MW-4s	6.9	0.19	1.4	4
MW-5s	0.3	0.18	0.0	23
MW-6s	7.5	0.00	0.0	29
MW-7s	0.8	0.12	1.8	18
MW-8s	0.0	0.07	0.0	23
MW-9s	0.5	0.03	2.7	29
MW-10s	6.5	0.31	2.3	21
MW-11s	6.4	1.79	9.9	6
MW-12s	--	--	--	--
MW-13s	1.1	0.31	0.0	13
MW-14s	--	--	--	--
MW-15s	--	--	--	--
MW-16s	--	--	--	--
MW-17s	--	--	--	--
OW-4	0.8	0.08	1.5	19
MW-1d	0.0	0.08	1.9	6
MW-2d	4.0	0.34	0.0	13
MW-6d	0.0	0.02	1.9	7
MW-7d	5.3	0.78	1.9	19
MW-8d	0.6	0.04	1.0	11
MW-9d	0.0	0.00	0.2	14
MW-10d	0.8	0.04	0.0	6
MW-11d	0.4	0.16	3.9	8
MW-12d	0.0	0.02	2.3	15
MW-13d	0.0	0.00	0.5	8

**Table 32
Sample Log**

Location	Date	Time
MW-1s	06.24.16	1200
MW-2s	06.24.16	1345
MW-3s	06.24.16	1357
MW-4s	06.24.16	1302
MW-5s	06.24.16	1148
MW-6s	06.24.16	1220
MW-7s	06.22.16	1103
MW-8s	06.22.16	0932
MW-9s	06.22.16	1024
MW-10s	06.23.16	1432
MW-11s	06.23.16	1553
MW-12s	06.23.16	1010
MW-13s	06.23.16	0942
MW-14s	06.23.16	1207
MW-15s	06.22.16	1340
MW-16s	06.22.16	1330
MW-17s	06.22.16	1426
MW-1d	06.24.16	1410
MW-2d	06.24.16	1500
MW-6d	06.24.16	1436
MW-7d	06.22.16	1455
MW-8d	06.22.16	0649
MW-9d	06.22.16	0933
MW-10d	06.22.16	1316
MW-11d	06.22.16	1525
MW-12d	06.23.16	0906
MW-13d	06.23.16	0744
SW1	NS	NS
SW2	NS	NS
SW3	NS	NS
SW4	NS	NS
SW5	NS	NS
SW6	NS	NS
FB1	06.22.16	1530
FB2	06.23.16	1600
FB3	06.24.16	1510
OW-1	NS	NS
OW-2	NS	NS
OW-3	NS	NS
OW-4	06.24.16	1241
Effluent-1	NS	NS
Effluent-2	NS	NS

NS= Not Sampled

Table 33
Staff Gauge Data Summary

Staff Gauge #	Height
SG-1	Dry
SG-2	Dry

Day 1 Onsite: 0530
Day 1 Offsite: 1545

Day 2 Onsite: 0630
Day 2 Offsite: 1610

Day 3 Onsite: 0642
Day 3 Offsite: 1535

SN / CH

APPENDIX P

Drill Cuttings Disposal Documentation – July / August 2011

Keystone Sanitary Landfill

Junham Dr.
Lebanon PA
17042

TICKET #00816075
STATION 1 SCALE 0
DATE 09/14/11
TIME 12:38:07

CUSTOMER 1263 / Acc't
P.A. Tectonics Inc.
826 Main St
Peckville, PA 18452

VEHICLE CODE 951

TIME IN 12:17:06

TIME OUT 12:38:07

GRID 6562

GROSS
TARE
NET
NET TONS

16
39260
20500
18760
9.38

SOURCE 35 Lackawanna

REFUSE 13 Res./Contam. Soil

DRIVER



WEIGHMASTER: Chris
LICENSE: 060739/0608189
LEWIS BROS



APPENDIX Q

Drummed Waste Disposal Documentation

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 05018	2. Page 1 of 1
3. Generator's Name and Mailing Address LEWIS BROTHERS SERVICE STATION RD 2 BOX 204 57 ROUTE 347 OLYPHANT PA 18447		4. Generator's Phone (570) 487-1959			
5. Transporter 1 Company Name WASTE RECOVERY SOLUTIONS, INC		6. US EPA ID Number PAR 000 043 026		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (717) 866-9955	
9. Designated Facility Name and Site Address WASTE RECOVERY SOLUTIONS, INC. 343 KING STREET MYERSTOWN PA 17067		10. US EPA ID Number 1 PAR 000 043 026		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone (717) 866-9955	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
a. GROUNDWATER DOT NON-HAZARDOUS RCRA NON-REGULATED			No.	Type	14. Unit Wt./Vol.
			06	DM	330 G
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above a) (L)			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information a) Groundwater (DWI-5662)					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name X Jerry Luchansky				Signature <i>Jerry Luchansky</i>	
				Date 05 10 108	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Dennis Lynch				Signature <i>Dennis Lynch</i>	
				Date 05 10 108	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
				Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.					
Printed/Typed Name				Signature	
				Date	
				Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 04250	2. Page 1 of 1
3. Generator's Name and Mailing Address Lewis Brothers Service Station RD 2 Box 57 Route 247 Clyde PA 18447				SAME	
4. Generator's Phone (570) 457-1059					
5. Transporter 1 Company Name Waste Recovery Solutions, Inc.		6. US EPA ID Number PA00004302		A. State Transporter's ID	
				B. Transporter 1 Phone 717 668-9355	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Waste Recovery Solutions, Inc. 343 King Street Harrisburg PA 17037		10. US EPA ID Number PA00004302		E. State Facility's ID	
				F. Facility's Phone 717 668-9355	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
			No.	Type	
a. Oil Cuttings DOT Non-Hazardous RCRA Non-Regulated			10	DM	7,000 lbs.
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
G. (1)			H.		
G. (2)			H.		
15. Special Handling Instructions and Additional Information a) LPI- 12278					
NON-HAZARDOUS WASTE					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Dennis Lynch				Date Month Day Year 4 29 10	
Signature <i>[Signature]</i>					
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Dennis Lynch				Date Month Day Year 04 29 10	
Signature <i>[Signature]</i>					
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Date	
Signature					
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Date	
Signature					

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 00190A	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>Lewis Machine Service Station 1912 Ave S7 Route 24 Dighton PA 15447</i>				DAMP	
4. Generator's Phone (<i>812</i>) <i>497-1969</i>		6. US EPA ID Number P A R 8 0 0 0 4 3 0 2 8		A. State Transporter's ID	
5. Transporter 1 Company Name <i>Waste Recovery Solutions, Inc.</i>		8. US EPA ID Number		B. Transporter 1 Phone <i>717 826-9300</i>	
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address <i>Waste Recovery Solutions, Inc. 323 King Street Doyardown PA 17067</i>		14. US EPA ID Number P A R 8 0 0 0 4 3 0 2 8		D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone <i>717 826-9300</i>	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. <i>Oil Casing DOT Non-Hazardous EPCRA Non-Regulated</i>			No. <i>012</i>	Type <i>DM</i>	<i>14,400 P</i>
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
<i>1. (1)</i>			<i>1</i>		
<i>2. (1)</i>			<i>2</i>		
15. Special Handling Instructions and Additional Information <i>DOT EPCRA</i>					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <i>Jerry Luchinski</i>				Signature <i>Jerry Luchinski</i>	
				Date <i>06/18/00</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>Dennis Lynch</i>				Signature <i>Dennis Lynch</i>	
				Date <i>06/18/00</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
				Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Signature	
				Date	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FA

LITY



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No. 12020	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>Leads Chemical Services Division RD 2 Box 87 Route 347 Clyphant PA 17407</i>		SAME		
4. Generator's Phone (<i>870 487-1950</i>)				
5. Transporter 1 Company Name <i>Waste Recovery Solutions, Inc.</i>	6. US EPA ID Number <i>PAR000043028</i>	A. State Transporter's ID		
7. Transporter 2 Company Name		B. Transporter 1 Phone <i>717 868-1985</i>		
8. US EPA ID Number		C. State Transporter's ID		
9. Designated Facility Name and Site Address <i>Waste Recovery Solutions, Inc. 343 King Street Myerstown PA 17007</i>		D. Transporter 2 Phone		
10. US EPA ID Number <i>PAR000043028</i>		E. State Facility's ID		
11. WASTE DESCRIPTION		F. Facility's Phone <i>717 868-1985</i>		
		12. Containers	13. Total Quantity	14. Unit Wt./Vol.
		No.	Type	
a. <i>Sludge DOT Non-Hazardous RCRA Non-Regulated</i>		<i>20</i>	<i>DM</i>	<i>1,430 Gals</i>
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above		
a. <i>(SL)</i>		g.		
b.		h.		
c.		i.		
d.		j.		
15. Special Handling Instructions and Additional Information <i>Sludge 12070</i>				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name <i>Kevin Green</i>				Date Month Day Year <i>12 02 10</i>
Signature <i>[Signature]</i>				
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name <i>Dennis Lynch</i>				Date Month Day Year <i>12 02 10</i>
Signature <i>[Signature]</i>				
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name				Date Month Day Year
Signature				
19. Discrepancy Indication Space				
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.				
Printed/Typed Name				Date Month Day Year
Signature				

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No 09221	2. Page 1 of 1
3. Generator's Name and Mailing Address Lewis Brothers Service Station RD 2 Box 57 Route 347 Olyphant PA 18447				SAME	
4. Generator's Phone (570 487-1959)		6. US EPA ID Number PAR000043026		A. State Transporter's ID	
5. Transporter 1 Company Name Waste Recovery Solutions, Inc.		7. Transporter 2 Company Name		B. Transporter 1 Phone 717 866-9055	
		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Waste Recovery Solutions, Inc. 343 King Street Myersdown PA 17067		10. US EPA ID Number PAR000043026		E. State Facility's ID	
				F. Facility's Phone 717 866-9055	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
			No.	Type	
a. Drilling Sludge DOT Non-Hazardous RCRA Non-Regulated			14	DM	7,000 P
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
a. (L)			a.		
b.			b.		
c.			c.		
d.			d.		
15. Special Handling Instructions and Additional Information a) LFI - 12278					
NON-HAZARDOUS WASTE					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name KEVIN CURRA PA TECHNIKS				Date Month Day Year 09 23 11	
Signature <i>[Signature]</i>					
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Dennis Lynch				Date Month Day Year 09 23 11	
Signature <i>[Signature]</i>					
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Date Month Day Year	
Signature					
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name Walter Kyzank				Date Month Day Year 09 26 11	
Signature <i>[Signature]</i>					

NON-HAZARDOUS WASTE GENERATOR

APPENDIX R

Laboratory Analytical Data Sheets – Aqueous Waste Treatment Effluent Samples

Aqueous Waste Treatment Event

October 5, 2010 – October 12, 2010



Certificate of Analysis

Project Name:	Routine Sample Submission	Workorder:	9870068
Purchase Order:		Workorder ID:	Routine Sample Submission

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

October 20, 2010

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Saturday, October 09, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9870068 Routine Sample Submission

Discard Date: 11/02/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9870068001	Effluent-1	Water	10/5/10 11:30	10/9/10 09:00	Marty Gilgallon
9870068002	Effluent-2	Water	10/6/10 07:30	10/9/10 09:00	Marty Gilgallon
9870068003	Effluent-3	Water	10/7/10 07:30	10/9/10 09:00	Marty Gilgallon

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9870068 Routine Sample Submission

Lab ID: 9870068001

Date Collected: 10/5/2010 11:30

Matrix: Water

Sample ID: Effluent-1

Date Received: 10/9/2010 09:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/16/10 03:44	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 03:44	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 03:44	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/16/10 03:44	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/16/10 03:44	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/16/10 03:44	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/16/10 03:44	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 03:44	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 03:44	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.2		%	62-133	SW846 8260B		10/16/10 03:44	DD	A
4-Bromofluorobenzene (S)	90.1		%	79-114	SW846 8260B		10/16/10 03:44	DD	A
Dibromofluoromethane (S)	97.4		%	78-116	SW846 8260B		10/16/10 03:44	DD	A
Toluene-d8 (S)	95.7		%	76-127	SW846 8260B		10/16/10 03:44	DD	A

Sample Comments:

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9870068 Routine Sample Submission

Lab ID: 9870068002

Date Collected: 10/6/2010 07:30

Matrix: Water

Sample ID: Effluent-2

Date Received: 10/9/2010 09:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:17	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:17	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:17	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/16/10 04:17	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/16/10 04:17	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:17	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/16/10 04:17	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:17	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:17	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.8		%	62-133	SW846 8260B		10/16/10 04:17	DD	A
4-Bromofluorobenzene (S)	88.8		%	79-114	SW846 8260B		10/16/10 04:17	DD	A
Dibromofluoromethane (S)	93.3		%	78-116	SW846 8260B		10/16/10 04:17	DD	A
Toluene-d8 (S)	88		%	76-127	SW846 8260B		10/16/10 04:17	DD	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9870068 Routine Sample Submission

Lab ID: 9870068003

Date Collected: 10/7/2010 07:30

Matrix: Water

Sample ID: Effluent-3

Date Received: 10/9/2010 09:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:50	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:50	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:50	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/16/10 04:50	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/16/10 04:50	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:50	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/16/10 04:50	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:50	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/10 04:50	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90		%	62-133	SW846 8260B		10/16/10 04:50	DD	A
4-Bromofluorobenzene (S)	90.9		%	79-114	SW846 8260B		10/16/10 04:50	DD	A
Dibromofluoromethane (S)	98.5		%	78-116	SW846 8260B		10/16/10 04:50	DD	A
Toluene-d8 (S)	90.3		%	76-127	SW846 8260B		10/16/10 04:50	DD	A

Sample Comments:


Anna G Milliken
Laboratory Manager



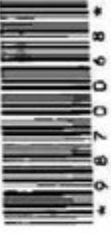
ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430



9870068

Page 1 of 1
Counter: Fed Ex
Tracking #: 8704 1849
TOP

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE
CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax 717-944-1430

Co. Name: **Pennsylvania Technologies, Inc**
Contact: **M. Gilgallon**
Address: **826 Main St
Petersville Pa 18452**
Phone: **570.487.1939**

Project Name: _____
TAT: Normal-Standard TAT is 13-15 business days.
 Rush-Subject to ALSI approval and surcharges.
Email? Yes No
Fax? Yes No
Approved By: _____
Date Required: _____
ALSI Quote #: _____

Bill To of Client's Own Record
PO#: _____
Sample Description/Location (Is it all located on the 30,000?)
1 Effluent - 1
2 Effluent - 2
3 Effluent - 3
4
5
6
7
8

Sample	Date	Time	Matrix	Enter Number of Containers Per Analysis
1	10/5/10	1130	Glu	2
2	10/6/10	0730	Glu	2
3	10/7/10	0730	Glu	2
4				
5				
6				
7				
8				

Sample	Date	Time	Received By / Company Name	Date	Time
1	10/10/10	1400	Fed Ex	8/24/10	743
3					
5					
7					
9					

LOGGED BY: _____
REVIEWED BY: _____
SAMPLER: **M. Gilgallon**
Relinquished By / Company Name: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____

ANALYSES/METHOD REQUESTED

Container Type: **CG**
Container Size: **40ml**
Preservative: **HL**

Container ID: **101330724**
Cooler Temp: **3°C**
No. of Coolers: _____
Notes: _____

Corrected volume?	Y	N	(3)
Correct preservation?	Y	N	(2)
Headspace/Volume?	Y	N	(2)
Container in good condition?	Y	N	(2)

Corrected volume?	Y	N	(3)
Correct preservation?	Y	N	(2)
Headspace/Volume?	Y	N	(2)
Container in good condition?	Y	N	(2)

ALS FIELD SERVICES
Pickup
Labor
Composite Sampling
Special Equipment
Other

EDCs Required?
If yes, format type: _____
30D Criteria Required?

34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax 717-944-1430
Copies: WHITE - ORIGINAL CANNOTY - CUSTOMER COPY
G-Glass, C-Composite
*Matrix: A=Air, D=Drinking Water, G=Groundwater, O=Oil, G=Other Liquid, S=Sludge, SO=Soil, W=Water, M=Water/Water
***Container Type: A=Amber Glass, CG=Clear Glass, PL=Plastic, Container Size: 20ml, 50ml, 1L, 5L, etc. Preservative: ND, HNO3, NaOH, etc.



Tonya M. Hironimus

From: Pennsylvania Tectonics [patectonics@hotmail.com]
Sent: Monday, October 11, 2010 2:45 PM
To: Tonya M. Hironimus
Subject: RE: Effluent-1,2,3

Hey Tonya,

Method 8260 please.

Marty

Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452
(570) 487-1959
Fax - (570) 487-1961
patectonics@hotmail.com

This electronic communication and its attachments (if any) may contain confidential, proprietary, and/or legally privileged information and are for the sole use of the sender and the intended recipient. If you are not the intended recipient, any use, distribution, or reproduction of this communication is strictly prohibited and may be unlawful; please contact the sender and delete this communication.

Subject: Effluent-1,2,3
Date: Mon, 11 Oct 2010 14:26:34 -0400
From: thironimus@analyticallab.com
To: patectonics@hotmail.com

Marty,

I was curious if you want me to report the unleaded gas parameters to you from method 624 or 8260 for these wastewater samples. These are Effluent -1,2,3 which were collected 10/5,6,7.

Thanks,
Tonya Hironimus
Project Coordinator
Analytical Laboratory Services, Inc.
34 Dogwood Lane, Middletown, PA 17057
Phone: (717) 944-5541 Ext. 3108
Fax: (717) 944-1430



Certificate of Analysis

Project Name:	LEWIS BROTHERS - PA SITE	Workorder:	9871065
Purchase Order:		Workorder ID:	LEWIS BROTHERS - PA SITE

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

October 20, 2010

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Friday, October 15, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9871065 LEWIS BROTHERS - PA SITE

Discard Date: 11/02/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9871065001	Effluent-4	Ground Water	10/4/10 12:45	10/15/10 09:30	Customer
9871065002	Effluent-5	Ground Water	10/4/10 11:45	10/15/10 09:30	Customer

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9871065 LEWIS BROTHERS - PA SITE

Lab ID: 9871065001
Sample ID: Effluent-4

Date Collected: 10/4/2010 12:45
Date Received: 10/15/2010 09:30

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:01	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:01	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:01	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/18/10 06:01	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/18/10 06:01	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:01	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/18/10 06:01	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:01	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:01	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62-133	SW846 8260B		10/18/10 06:01	MES	A
4-Bromofluorobenzene (S)	89.1		%	79-114	SW846 8260B		10/18/10 06:01	MES	A
Dibromofluoromethane (S)	87.9		%	78-116	SW846 8260B		10/18/10 06:01	MES	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B		10/18/10 06:01	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9871065 LEWIS BROTHERS - PA SITE

Lab ID: 9871065002
Sample ID: Effluent-5

Date Collected: 10/4/2010 11:45
Date Received: 10/15/2010 09:30

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:34	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:34	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:34	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/18/10 06:34	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/18/10 06:34	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:34	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/18/10 06:34	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:34	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/18/10 06:34	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62-133	SW846 8260B		10/18/10 06:34	MES	A
4-Bromofluorobenzene (S)	90.4		%	79-114	SW846 8260B		10/18/10 06:34	MES	A
Dibromofluoromethane (S)	92.8		%	78-116	SW846 8260B		10/18/10 06:34	MES	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B		10/18/10 06:34	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



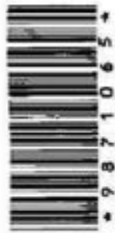
ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430



Page 1 of 1
Order: FED EX
Tracking #: 8104-1849-711

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services

34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: Pennsylvania Testatics, Inc
Contact: Martin G. Gallo Phone: 570-487-1959
Address: 826 Main Street
Pottsville PA 18452

PO#: _____

Project Name#: Z705B / Lewis Brothers ALSI Quote #:

TAT: Normal-Standard TAT is 10-12 business days. Data Required:
 Rush-Subject to ALSI approval and surcharges. Approved By:

Email? Y N
Fax? Y N
Y No: perfectwaters@pottsville.com

Sample Description/Location <small>(Use full address on the log sheet)</small>	COC Comments	Sample Date	Military Time	Enter Number of Containers Per Analysis		Matrix	ANALYSES/METHOD REQUESTED	Receipt Information <small>Specimen to Sample Received</small>
				Correct containers?	Correct sample volume?			
1 EFFLUENT-4		10.10.10	1245	6	6	GC	COLEMAN GAS	Correct containers? <input type="checkbox"/> Y <input type="checkbox"/> N Correct sample volume? <input type="checkbox"/> Y <input type="checkbox"/> N Received on lot? <input type="checkbox"/> Y <input type="checkbox"/> N COC labels completed/accurate? <input type="checkbox"/> Y <input type="checkbox"/> N Container in good condition? <input type="checkbox"/> Y <input type="checkbox"/> N Circle appropriate Y or N
2 EFFLUENT-5		10.12.10	1145	6	6	GC	COLEMAN GAS	Correct containers? <input type="checkbox"/> Y <input type="checkbox"/> N Correct sample volume? <input type="checkbox"/> Y <input type="checkbox"/> N Received on lot? <input type="checkbox"/> Y <input type="checkbox"/> N COC labels completed/accurate? <input type="checkbox"/> Y <input type="checkbox"/> N Container in good condition? <input type="checkbox"/> Y <input type="checkbox"/> N Circle appropriate Y or N
3								
4								
5								
6								
7								
8								
SAMPLED BY (Please Print): KEVIN CUCURA Relinquished By / Company Name: KEVIN CUCURA Date: 10/14/10 Time: 1320 Date: 10/15/10 Time: 0930 Date: 10/15/10 Time: 0930								ALSI FIELD SERVICES <input type="checkbox"/> Pricing <input type="checkbox"/> Labor <input type="checkbox"/> Concepts Sampling <input type="checkbox"/> Rental Equipment <input type="checkbox"/> Other
LOGGED BY (Print): _____ REVIEWED BY (Print): _____ Date: 10/14/10 Time: 1320 Date: 10/15/10 Time: 0930								Data Deliverables <input type="checkbox"/> Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> NJ-Reduced <input type="checkbox"/> NJ-Full If yes, format type: Other _____ EDBs: _____ 3000 Criteria Required?
State Sample Collected in: MO <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> PA <input type="checkbox"/>								Other: _____

Copies: WHITE - ORIGINAL CAMRY - CUSTOMER COPY
 * GC-MS, GC-Compass
 **Matrix: ALSI, Urea/Drinking Water, GHG/Groundwater, D-CO, CL-Other Liquid, SU-Storage, SO-Soil, W-Water, W-Water/Sewer
 ***Container Type: AG-Ambic Glass, PL-Plastic, Container Size: 250ml, 500ml, 1L, 5L, etc. Preservative: HCL, HNO3, NaOH, etc.
 Rev 6/07

Aqueous Waste Treatment Event

July 28, 2011 – August 5, 2011

August 16, 2011

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

Certificate of Analysis

Project Name: 27058	Workorder: 9919655
Purchase Order:	Workorder ID: Lewis Bros./27058

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Thursday, August 04, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9919655 Lewis Bros./27058

Discard Date: 08/30/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9919655001	058-0728-Effluent 1	Water	7/28/11 12:30	8/4/11 09:10	Customer
9919655002	Trip Blank	Water	8/4/11 09:10	8/4/11 09:10	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9919655 Lewis Bros./27058

Lab ID: 9919655001

Date Collected: 7/28/2011 12:30

Matrix: Water

Sample ID: 058-0728-Effluent 1

Date Received: 8/4/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/11 03:51	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/11 03:51	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/11 03:51	DJB	A
Methyl t-Butyl Ether	ND	1,2	ug/L	1.0	SW846 8260B		8/11/11 03:51	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/11 03:51	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/11/11 03:51	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/11 03:51	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/11 03:51	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/11 03:51	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.4		%	62-133	SW846 8260B		8/11/11 03:51	DJB	A
4-Bromofluorobenzene (S)	82.5		%	79-114	SW846 8260B		8/11/11 03:51	DJB	A
Dibromofluoromethane (S)	86.7		%	78-116	SW846 8260B		8/11/11 03:51	DJB	A
Toluene-d8 (S)	89.4		%	76-127	SW846 8260B		8/11/11 03:51	DJB	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9919655 Lewis Bros./27058

Lab ID: 9919655002

Date Collected: 8/4/2011 09:10

Matrix: Water

Sample ID: Trip Blank

Date Received: 8/4/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/15/11 06:36	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/15/11 06:36	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/15/11 06:36	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/15/11 06:36	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/15/11 06:36	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/15/11 06:36	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/15/11 06:36	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/15/11 06:36	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/15/11 06:36	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B		8/15/11 06:36	MES	A
4-Bromofluorobenzene (S)	87.7		%	79-114	SW846 8260B		8/15/11 06:36	MES	A
Dibromofluoromethane (S)	90.2		%	78-116	SW846 8260B		8/15/11 06:36	MES	A
Toluene-d8 (S)	98.5		%	76-127	SW846 8260B		8/15/11 06:36	MES	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9919655 Lewis Bros./27058

PARAMETER QUALIFIERS\FLAGS

- [1] The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 118 and the control limits were 69 to 115.

- [2] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 116 and the control limits were 69 to 115.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

August 18, 2011

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

Certificate of Analysis

Project Name: 27058	Workorder: 9920366
Purchase Order:	Workorder ID: Leins Bros/27058

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, August 09, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9920366 Leins Bros/27058

Discard Date: 09/01/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9920366001	058-0805-Effluent 2	Water	8/5/11 13:40	8/9/11 09:15	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 9920366 Leins Bros/27058

Lab ID: 9920366001

Date Collected: 8/5/2011 13:40

Matrix: Water

Sample ID: 058-0805-Effluent 2

Date Received: 8/9/2011 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/17/11 10:15	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/17/11 10:15	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/17/11 10:15	MES	A
Methyl t-Butyl Ether	1.5		ug/L	1.0	SW846 8260B		8/17/11 10:15	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/17/11 10:15	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/17/11 10:15	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/17/11 10:15	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/17/11 10:15	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/17/11 10:15	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	117		%	62-133	SW846 8260B		8/17/11 10:15	MES	A
4-Bromofluorobenzene (S)	110		%	79-114	SW846 8260B		8/17/11 10:15	MES	A
Dibromofluoromethane (S)	106		%	78-116	SW846 8260B		8/17/11 10:15	MES	A
Toluene-d8 (S)	112		%	76-127	SW846 8260B		8/17/11 10:15	MES	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Page | of |
 Counter: FLA-2x
 Tracking #: 0755 6939
7012

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SAMPLES MUST BE COLLECTED BY THE CLIENT
 UNDER DIRECT SUPERVISION OF THE LABORATORY

ALS Environmental
 Ship to: 34 Dogwood Lane ■ Middletown, PA 17057 ■ 717.944.5541 ■ Fax: 717.944.1430

Co. Name: PENNSYLVANIA TECTONES, INC.
Contact (Person): MARTIN GILGATION Phone: 570-487-1959
Address: 826 MAIN STREET
PENNSYLVANIA PA 18452

Bill to (if different than report bill): PO#:

Project Name: LAYS BARRS / 27058 **ALS Quote #:**
 Normal-Standard TAT is 10 business days. Date Required:
 Rush-Subject to ALS approval and surcharges. Approved By:
Email: patrick@tectes.com
Fax:

Receipt Information
 (Including Sample Receipt)
 Received by: AM
 Date: 8/5/11
 Cooler Temp: 5°C
 Therm. ID: 101338324
 No. of Coolers:
 Notes:

Enter Number of Containers Per Analysis	Container Type	Container Sub	Preservative	Matrix	Sample Date	Sample Time	COC Comments	LOGGED BY (Signature)		REVIEWED BY (Signature)	
								Date	Time	Date	Time
1	CG	6M	HCL	Matrix	8-5-11	13:40	G6W 2	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
2											
3											
4											
5											
6											
7											
8											
SAMPLED BY (Please Print): <u>KRYN CUCORA</u>								LOGGED BY (Signature): <u>[Signature]</u>		REVIEWED BY (Signature): <u>[Signature]</u>	
Relinquished By / Company Name: <u>[Signature]</u>								Date:	Time:	Date:	Time:
1					8-5-11	13:00					
2											
3											
4											
5											
6											
7											
8											
9											
10											

ANALYSIS METHOD REQUESTED

ALS FIELD SERVICES

Customs seals Present? (If present) Seals intact?

Container in good condition?

COC labels complete/accurate?

Refracted on test?

Correct preservation?

Headspace/Volatility?

Check appropriate Y or N.

ALS FIELD SERVICES:
 Pickup Labor Composite Sampling Special Equipment Other:

Copies: WHITE - ORIGINAL - CANARY - CUSTOMER COPY
 Matrix: Aqueous: Drinking Water, GW-Cleanwater, DW-CO, OL-Other: Liquids: BL-Drugs, SO-Sol: AP-Air: WY-Water: WY-Water
 Matrix: Aqueous: Drinking Water, GW-Cleanwater, DW-CO, OL-Other: Liquids: BL-Drugs, SO-Sol: AP-Air: WY-Water: WY-Water
 Container Type: AQ-Aqueous Glass, CG-Clear Glass, PL-Plastic, Container Size: 20ml, 50ml, 1L, Box, etc. Preservative: HCl, HNO3, NaOH, etc.
 Matrix: Aqueous: Drinking Water, GW-Cleanwater, DW-CO, OL-Other: Liquids: BL-Drugs, SO-Sol: AP-Air: WY-Water: WY-Water
 Container Type: AQ-Aqueous Glass, CG-Clear Glass, PL-Plastic, Container Size: 20ml, 50ml, 1L, Box, etc. Preservative: HCl, HNO3, NaOH, etc.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife · United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Report ID: 9920366

Page 4 of 4

Aqueous Waste Treatment Event

November 10, 2011

November 23, 2011

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

Certificate of Analysis

Project Name: LEWIS BROTHERS - PA SITE	Workorder: 9937208
Purchase Order:	Workorder ID: 27058 Lewis Bros

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 12, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9937208 27058 Lewis Bros

Discard Date: 12/07/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9937208001	058-1110-Effluent 1	Water	11/10/11 14:15	11/12/11 09:10	Customer
9937208002	058-1110-Effluent 2	Water	11/10/11 16:15	11/12/11 09:10	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937208 27058 Lewis Bros

Lab ID: 9937208001

Date Collected: 11/10/2011 14:15

Matrix: Water

Sample ID: 058-1110-Effluent 1

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/21/11 16:58	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/21/11 16:58	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/21/11 16:58	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/21/11 16:58	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/21/11 16:58	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/21/11 16:58	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/21/11 16:58	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/21/11 16:58	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/21/11 16:58	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		11/21/11 16:58	JAH	A
4-Bromofluorobenzene (S)	82.2		%	79-114	SW846 8260B		11/21/11 16:58	JAH	A
Dibromofluoromethane (S)	94.7		%	78-116	SW846 8260B		11/21/11 16:58	JAH	A
Toluene-d8 (S)	103		%	76-127	SW846 8260B		11/21/11 16:58	JAH	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937208 27058 Lewis Bros

Lab ID: 9937208002

Date Collected: 11/10/2011 16:15

Matrix: Water

Sample ID: 058-1110-Effluent 2

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/21/11 19:13	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/21/11 19:13	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/21/11 19:13	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/21/11 19:13	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/21/11 19:13	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/21/11 19:13	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/21/11 19:13	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/21/11 19:13	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/21/11 19:13	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B		11/21/11 19:13	JAH	A
4-Bromofluorobenzene (S)	85.6		%	79-114	SW846 8260B		11/21/11 19:13	JAH	A
Dibromofluoromethane (S)	90.6		%	78-116	SW846 8260B		11/21/11 19:13	JAH	A
Toluene-d8 (S)	99.8		%	76-127	SW846 8260B		11/21/11 19:13	JAH	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



Page 1 of 1
 Counter: FC-54
 Tracking #: 8767-0492-76

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

PLEASE PRINT OR TYPE CLEARLY
 SAMPLE INSTRUCTIONS ON THE BACK

ALS Environmental
 Ship to: 34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: Pennsylvania Technologies Phone: 570-483-1959

Contact (person): Martin Gilgallon

Address: 826 MAIN STREET
PERMIE PA 18422

Project Name#: Z7058 Lewis Bros ALS Quote #: _____

TAT: Normal Standard TAT is 10 business days. Date Required: _____
 Rush-Subject to ALS approval and surcharge. Approved By: _____

Email: Party: pttechnos@earthlink.net

Bill to (different than Report to): _____ PO#: _____

ANALYSES/METHOD REQUESTED

Container Type	CG
Container Size	4oz
Preservative	HCL

Enter Number of Containers Per Analysis

Sample No.	Sample Description/Location (as listed on the lab report)	COC Comments	Sample Date	Military Time	Received By / Company Name	Date	Time
1	OSB - 1110 - IFFRUST 1		11/11/11	1415	<u>[Signature]</u>	11/11/11	1300
2	OSB - 1110 - IFFRUST 2		11/11/11	1615	<u>[Signature]</u>	11/11/11	1300
3			11/11/11	per person 11/11/11			
4							
5							
6							
7							
8							

LOGGED BY/Signature: [Signature]
 REVIEWED BY/Signature: [Signature]

Relinquished By / Company Name: [Signature]
 Date: 11-11-11 Time: 1300

Received By / Company Name: [Signature]
 Date: 11/11/11 Time: 1300

Relinquished By / Company Name: [Signature]
 Date: 11/2/11 Time: 913

ALS FIELD SERVICES

Container in good condition? Y N

COC labels completed/correct? Y N

Received on label? Y N

(If present) Seals intact? Y N

Correct sample volume? Y N

Correct container? Y N

Handspace/Volume? Y N

Circle appropriate Y or N

Notes: _____

No. of Containers: _____

Theme ID: 71215

Color Temp: 3%

Container Type: CG

Container Size: 4oz

Preservative: HCL

Chain of Custody Form

Standard: CL-PH NI-Reduced NI-F-00

Form to: YES NO

State Agency: MD NJ NY PA

Other: Other (specify) _____

ESB: YES NO

1000 Credits Required?

Copy to: WHITE ORIGINAL - GAINARY - CUSTOMER COPY

*G-0426, C-Composite

**Matrix: AHA-L; DMW-Binding Water; GWS-Groundwater; O-WQ; CL-Water; Liquid; S-L-Solids; SC-Soil; WP-Water; WWS-Wastewater

***Container Types: AG-Ambic Glass; CG-Glass; Glass; PL-Plastic; Container Size: 250ml, 500ml, 1L, 5gal, etc.; Preservative: HCL, HNO3, H2O2, etc.

Rev 02/11

ALS Environmental Laboratory Locations Across North America

Canada: Burlington • Calgary • Centre of Excellence • Edmonton • Fort McMurray • Fort St. John • Grande Prairie • London • Mississauga • Richmond Hill • Saskatoon • Thunder Bay
 Vancouver Waterloo • Winnipeg • Yellowknife United States: Cincinnati • Everett • Fort Collins • Holland • Houston • Middletown • Salt Lake City • Spring City • York Mexico: Monterrey

Aqueous Treatment Event

May 18, 2012

May 25, 2012

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name: 27058	Workorder: 9968804
Purchase Order:	Workorder ID: 27058

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, May 22, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9968804 27058

Discard Date: 06/08/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9968804001	058-0516-Effluent 1	Water	5/18/12 11:40	5/22/12 09:40	Customer
9968804002	058-0516-Effluent 2	Water	5/18/12 16:30	5/22/12 09:40	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9968804 27058

Lab ID: **9968804001**

Date Collected: 5/18/2012 11:40

Matrix: Water

Sample ID: **058-0516-Effluent 1**

Date Received: 5/22/2012 09:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		5/24/12 16:41	DRS	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		5/24/12 16:41	DRS	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		5/24/12 16:41	DRS	B
Methyl t-Butyl Ether	10.5		ug/L	1.0	SW846 8260B		5/24/12 16:41	DRS	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		5/24/12 16:41	DRS	B
Toluene	ND		ug/L	1.0	SW846 8260B		5/24/12 16:41	DRS	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		5/24/12 16:41	DRS	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		5/24/12 16:41	DRS	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		5/24/12 16:41	DRS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.5		%	62-133	SW846 8260B		5/24/12 16:41	DRS	B
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B		5/24/12 16:41	DRS	B
Dibromofluoromethane (S)	95.8		%	78-116	SW846 8260B		5/24/12 16:41	DRS	B
Toluene-d8 (S)	99.3		%	76-127	SW846 8260B		5/24/12 16:41	DRS	B

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9968804 27058

Lab ID: **9968804002**

Date Collected: 5/18/2012 16:30

Matrix: Water

Sample ID: **058-0516-Effluent 2**

Date Received: 5/22/2012 09:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		5/24/12 18:08	DRS	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		5/24/12 18:08	DRS	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		5/24/12 18:08	DRS	B
Methyl t-Butyl Ether	7.6		ug/L	1.0	SW846 8260B		5/24/12 18:08	DRS	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		5/24/12 18:08	DRS	B
Toluene	ND		ug/L	1.0	SW846 8260B		5/24/12 18:08	DRS	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		5/24/12 18:08	DRS	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		5/24/12 18:08	DRS	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		5/24/12 18:08	DRS	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.2		%	62-133	SW846 8260B		5/24/12 18:08	DRS	B
4-Bromofluorobenzene (S)	105		%	79-114	SW846 8260B		5/24/12 18:08	DRS	B
Dibromofluoromethane (S)	91.6		%	78-116	SW846 8260B		5/24/12 18:08	DRS	B
Toluene-d8 (S)	101		%	76-127	SW846 8260B		5/24/12 18:08	DRS	B

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



Page 1 of 1
 Order: RD 2X
 Tracking #: 8961008083

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

Co. Name: Pennsylvania Technologies, Inc. Contact (Name): MARTIN GILGAILLOW Address: 723 MAIN STREET ARLINGDALE PA 18403 Phone:		Project Name#: 2705B ALS Quote #: Date Required: Approved By:	
Bill to (Professional Report): PO#:		TAT: <input checked="" type="checkbox"/> Normal Standard TAT is 10 business days <input type="checkbox"/> Rush Subject to ALS approval and surcharges.	
Sample Description/Location: (See 2nd page of this report)		Comments:	
1 OSB-0510- EFFLUENT 1 2 OSB-0510- EFFLUENT 2	Sample Date 5.18.12 1140 5.18.12 1030	Military Time 66 66	Enter Number of Containers Per Analysis 2 2
ANALYSIS METHOD REQUESTED			
Receipt Information Received by: [Signature] Date: 5/18/12 Cooler Temp: 10 Therm. ID: 17215 No. of Containers:			
Correct containers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Correct sample volumes? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Correct preservation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Headspace/Sealing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Containers in good condition? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
ALS FIELD SERVICES Pump <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment <input type="checkbox"/> Other <input type="checkbox"/>			

Deposited: WHITE - ORIGINAL CANNARY - CUSTOMER COPY
 Degree: 1 - Original, 2 - Composite
 *Music: Plastic Drum-Drumming, Vinyl, BPA-Free, Groundwater, DROB, GL-004, Lead, SL-004, Seals, Seals, W-010, W-010, W-010, W-010
 **Container Type: AG-Ambler Glass, OG-Clear Glass, PL-Plastic, Container Size: 250ml, 500ml, 1L, 2L, etc. Preservative: HCL, HNO3, NiOH, etc.
 Rev 6/2011

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Aqueous Waste Treatment Event

August 9, 2012

August 17, 2012

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name: **27058**
Purchase Order:Workorder: **9982362**
Workorder ID: **Lewis Bros/27058**

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Friday, August 10, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9982362 Lewis Bros/27058

Discard Date: 08/31/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9982362001	058-0809-Effluent 1	Water	8/9/12 09:12	8/10/12 09:43	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9982362 Lewis Bros/27058

Lab ID: 9982362001

Date Collected: 8/9/2012 09:12

Matrix: Water

Sample ID: 058-0809-Effluent 1

Date Received: 8/10/2012 09:43

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:23	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:23	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:23	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/16/12 07:23	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/16/12 07:23	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:23	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/16/12 07:23	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:23	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:23	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.7		%	62-133	SW846 8260B		8/16/12 07:23	DD	A
4-Bromofluorobenzene (S)	93.9		%	79-114	SW846 8260B		8/16/12 07:23	DD	A
Dibromofluoromethane (S)	88.9		%	78-116	SW846 8260B		8/16/12 07:23	DD	A
Toluene-d8 (S)	97.8		%	76-127	SW846 8260B		8/16/12 07:23	DD	A

Sample Comments:


 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ANALYZED AREAS MUST BE CONFINED BY FENCE OR CHAIN LINK FENCE WITH SIGNAGE

Page 1 of 1
 Count: _____
 Tracking #: _____



* 9 9 8 2 3 6 2 *

ALS Environmental
34 Dogwood Lane ■ Middletown, PA 17057 ■ 717-944-5541 ■ Fax: 717-944-1430

Co. Name: Pennsylvania Technologies, Inc.
Contact (Report): Martin G. Gallon Phone: 823-487-1989
Address: 723 Main Street Archbald PA 18403

Bill to (Institution Report to): PO#:

Project Name#: Lewis Bros / 2705B **ALS Quote #:**

Normal Standard (TAT is 10 business days) **Date Required:**
 Rush-Subject to ALS approval and surcharges. **Approved By:**

Email#: patrick@tech-nv.com
Fax#: _____

Sample	Site	Military	Time	COC Comments
1	08B-0809-EFFLUENT 1	09-12	09126602	
2				
3				
4				
5				
6				
7				
8				

LOGGED BY (Signature): *[Signature]* **Date:** 8/10/12 **Time:** 0710
REVIEWED BY (Signature): *[Signature]* **Date:** 8/10/12 **Time:** 0900

SAMPLED BY (Please Print): K. Cicera
Relinquished By / Company Name: *[Signature]* **Date:** 8/10/12 **Time:** 0710
Received By / Company Name: *[Signature]* **Date:** 8/10/12 **Time:** 0900

EDS: _____ **EDS:** _____

ANALYSIS/METHOD REQUESTED

Enter Number of Containers Per Analysis

Correct containers?	Y	Correct sample volume?	Y	Correctly sealed/Preserved?	Y	COI labels complete/concentrated?	Y	Container in good condition?	Y
Correct containers?	N	Correct sample volume?	N	Correctly sealed/Preserved?	N	COI labels complete/concentrated?	N	Container in good condition?	N
Correct containers?	Y	Correct sample volume?	Y	Correctly sealed/Preserved?	Y	COI labels complete/concentrated?	Y	Container in good condition?	Y
Correct containers?	N	Correct sample volume?	N	Correctly sealed/Preserved?	N	COI labels complete/concentrated?	N	Container in good condition?	N

ALS FIELD SERVICES:
 Pickup Labor Composite Sampling Rental Equipment Other: _____

Notes:

Therm: 15.1°C

No. of Containers: _____

Container ID: _____

Therm ID: _____

Therm Lot: _____

Therm Exp: _____

Therm In: _____

Therm Out: _____

* Grab, D-Composite
 **Water: A-1-A; D-W-Drinking Water; G-Gravel; L-Liquid; S-Solids; S-Sol; W-Water; W-Water
 ***Container Type: A-G Amber Glass, C-C Clear Glass, C-C 1st Glass, PL-Plastic, Container Size: 25ml, 50ml, 1L, Res., etc. Preservatives: HCl, HNO3, NHOH, etc.

Aqueous Waste Treatment Event

October 3, 2013

October 15, 2013

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name: 27058 Lewis Brothers Garage	Workorder: 1052014
Purchase Order:	Workorder ID: 27058/Lewis Brothers Garage

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Monday, October 07, 2013.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Debra Musser (Project Coordinator) at (717) 944-5541.


Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS York: 978 Loucks Mill Road, York, PA 17402 717-505-5280

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 1052014 27058/Lewis Brothers Garage

Discard Date: 10/29/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1052014001	058-1002-Effluent 1	Water	10/3/13 10:40	10/7/13 23:50	Customer
1052014002	058-1002-Effluent 2	Water	10/3/13 15:42	10/7/13 23:50	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

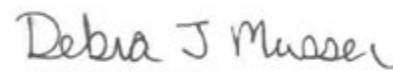
Workorder: 1052014 27058/Lewis Brothers Garage

Lab ID: **1052014001**
Sample ID: **058-1002-Effluent 1**

Date Collected: 10/3/2013 10:40
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/14/13 01:13	DD	A
Ethylbenzene	ND	1,2	ug/L	1.0	SW846 8260B		10/14/13 01:13	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 01:13	DD	A
Methyl t-Butyl Ether	ND	3,4	ug/L	1.0	SW846 8260B		10/14/13 01:13	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/14/13 01:13	DD	A
Toluene	ND	5,6	ug/L	1.0	SW846 8260B		10/14/13 01:13	DD	A
Total Xylenes	ND	7,8	ug/L	3.0	SW846 8260B		10/14/13 01:13	DD	A
1,2,4-Trimethylbenzene	ND	10,9	ug/L	1.0	SW846 8260B		10/14/13 01:13	DD	A
1,3,5-Trimethylbenzene	ND	11,1 2	ug/L	1.0	SW846 8260B		10/14/13 01:13	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	88.4		%	62-133	SW846 8260B		10/14/13 01:13	DD	A
4-Bromofluorobenzene (S)	96.8		%	79-114	SW846 8260B		10/14/13 01:13	DD	A
Dibromofluoromethane (S)	91.4		%	78-116	SW846 8260B		10/14/13 01:13	DD	A
Toluene-d8 (S)	92.3		%	76-127	SW846 8260B		10/14/13 01:13	DD	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

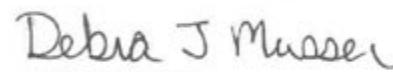
Workorder: 1052014 27058/Lewis Brothers Garage

 Lab ID: **1052014002**
 Sample ID: **058-1002-Effluent 2**

 Date Collected: 10/3/2013 15:42
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/14/13 00:56	DD	A
Ethylbenzene	ND	1,2	ug/L	1.0	SW846 8260B		10/14/13 00:56	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 00:56	DD	A
Methyl t-Butyl Ether	ND	3,4	ug/L	1.0	SW846 8260B		10/14/13 00:56	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/14/13 00:56	DD	A
Toluene	ND	5,6	ug/L	1.0	SW846 8260B		10/14/13 00:56	DD	A
Total Xylenes	ND	7,8	ug/L	3.0	SW846 8260B		10/14/13 00:56	DD	A
1,2,4-Trimethylbenzene	ND	10,9	ug/L	1.0	SW846 8260B		10/14/13 00:56	DD	A
1,3,5-Trimethylbenzene	ND	11,1 2	ug/L	1.0	SW846 8260B		10/14/13 00:56	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87		%	62-133	SW846 8260B		10/14/13 00:56	DD	A
4-Bromofluorobenzene (S)	94.4		%	79-114	SW846 8260B		10/14/13 00:56	DD	A
Dibromofluoromethane (S)	89.1		%	78-116	SW846 8260B		10/14/13 00:56	DD	A
Toluene-d8 (S)	94.6		%	76-127	SW846 8260B		10/14/13 00:56	DD	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 1052014 27058/Lewis Brothers Garage

PARAMETER QUALIFIERS\FLAGS

- [1] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 8.33 and the control limits were 80 to 124.
- [2] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 25.3 and the control limits were 80 to 124.
- [3] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 33.4 and the control limits were 69 to 115.
- [4] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 28.6 and the control limits were 69 to 115.
- [5] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Toluene. The % Recovery was reported as -129 and the control limits were 80 to 125.
- [6] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Toluene. The % Recovery was reported as -65.9 and the control limits were 80 to 125.
- [7] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Total Xylenes. The % Recovery was reported as -797 and the control limits were 79 to 125.
- [8] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Total Xylenes. The % Recovery was reported as -781 and the control limits were 79 to 125.
- [9] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The % Recovery was reported as -172 and the control limits were 76 to 125.
- [10] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The % Recovery was reported as -196 and the control limits were 76 to 125.
- [11] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,3,5-Trimethylbenzene. The % Recovery was reported as 42.5 and the control limits were 76 to 125.
- [12] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte 1,3,5-Trimethylbenzene. The % Recovery was reported as 39.4 and the control limits were 76 to 125.

ALS Environmental Laboratory Locations Across North AmericaCanada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
SAMPLER. INSTRUCTIONS ON THE BACK.

34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

ALS logo word...
ALS logo image

COC #: **ALS QU**

Receipt # **1052014**

Client Name: Pennsylvania Technics, Inc.
Address: 723 Main Street
Archbald, PA 18403
Contact: Martin Gligallon
Phone: (670) 427-1959
Project Name: 27069 / Lewis Brothers Garage
Bill To:

TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Date Required: _____ Approved By: _____
 Email? Y N palectronics@hotmail.com
 Fax? Y N

Container Type: **CG**
 Container Size: **40m**
 Preservative: **HCI**

ANALYSIS METHOD REQUESTED

Enter Number of Containers Per Sample or Field Results Below.

Sample	Date	Time	Matrix	g or c	Matrix
1	058-1002-EFFluent 1	10.3.13	1040	630	2
2	058-1002-EFFluent 2	10.3.13	1542	660	2
3					
4					
5					
6					
7					
8					
9					
10					

Unleaded gas

ALS Field Services: Pickup Labor Rental Equipment
 Composite Sampling Other: _____

Project Comments:

LOGGED BY: Signature: _____ Date: 10/17/13 Time: 3:21
 RECEIVED BY: Signature: _____ Date: 10/17/13 Time: 3:01

Relinquished By / Company Name: **PA Technics** Date: 10/17/13 Time: 13:50
 Received By / Company Name: **DM** Date: 10/17/13 Time: 13:50

Deliverables: Standard CLP-like USACE
 Reportable to PADEP? Yes No
 PWSID #: _____ EDDS: Format Type: _____

State Samples Collected In: NJ NY PA NC

Special Processing: USACE Navy Lab Special

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Aqueous Waste Treatment Event

February 4, 2014

February 17, 2014

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name: 27058 Lewis Brothers Garage	Workorder: 1070647
Purchase Order:	Workorder ID: Lewis Brothers Garage/27058

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Friday, February 07, 2014.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.


If you have any questions regarding this certificate of analysis, please contact Debra Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 1070647 Lewis Brothers Garage/27058

Discard Date: 03/03/2014

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1070647001	058-0122-Effluent 1	Water	2/4/14 12:15	2/7/14 09:45	Customer
1070647002	058-0122-Effluent 2	Water	2/4/14 15:15	2/7/14 09:45	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070647 Lewis Brothers Garage/27058

Lab ID: 1070647001

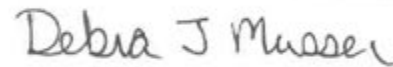
Date Collected: 2/4/2014 12:15

Matrix: Water

Sample ID: 058-0122-Effluent 1

Date Received: 2/7/2014 09:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 23:26	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 23:26	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 23:26	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 23:26	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/12/14 23:26	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 23:26	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 23:26	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 23:26	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 23:26	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		2/12/14 23:26	GLQ	A
4-Bromofluorobenzene (S)	91.7		%	79-114	SW846 8260B		2/12/14 23:26	GLQ	A
Dibromofluoromethane (S)	109		%	78-116	SW846 8260B		2/12/14 23:26	GLQ	A
Toluene-d8 (S)	94.1		%	76-127	SW846 8260B		2/12/14 23:26	GLQ	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

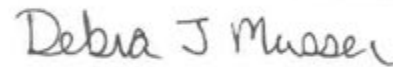
Workorder: 1070647 Lewis Brothers Garage/27058

Lab ID: **1070647002**
Sample ID: **058-0122-Effluent 2**

Date Collected: 2/4/2014 15:15
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:00	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:00	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:00	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/13/14 00:00	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/13/14 00:00	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:00	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/13/14 00:00	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:00	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:00	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B		2/13/14 00:00	GLQ	A
4-Bromofluorobenzene (S)	84.6		%	79-114	SW846 8260B		2/13/14 00:00	GLQ	A
Dibromofluoromethane (S)	107		%	78-116	SW846 8260B		2/13/14 00:00	GLQ	A
Toluene-d8 (S)	95.6		%	76-127	SW846 8260B		2/13/14 00:00	GLQ	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

1 of 1



COX
ALS

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
 ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
 SAMPLER. INSTRUCTIONS ON THE BACK.

34 Dogwood Lane
 Middletown, PA 17057
 P. 717-944-5541
 F. 717-944-1430

Client Name: Pennsylvania Technolox, Inc.
Address: 723 Main Street
 Archbald, PA 18403
Contact: Martin Gillingham
Phone: (670) 487-9590
Project Name: Lewis Brothers Garage / 27068
Bill To:

TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
Date Required: _____ **Approved By:** _____
Email: Y N **pa.technolox@hotmail.com**
Fax: Y N

Container Type: CG
Container Size: 40 ml
Preservative: HCl

Cooler Temp: SC **Therm ID:** #21
No. of Coolers: Y N
 Custom? State Present? _____
 (if present) Seals Intact? _____
 Received on Ice? _____
 COC Labels Complete/Accurate? _____
 Cont. In Good Cond? _____
 Corrod. Container? _____
 Correct Sample Volumes? _____
 Correct Preservation? _____
 Headspace/Voliles? _____

Courier/Tracking #: _____
Sample/COC Comments: _____

Enter Number of Containers Per Sample or Field Results Below.

Sample	Date	Time	Matrix	Container	Volume	Notes
1	2.4.14	12:15	GW	G	2	Unleaded Gasoline - New List
2	2.4.14	15:15	GW	G	2	
3						
4						
5						
6						
7						
8						
9						
10						

Project Comments: _____

LOGGED BY (Signature): _____ **Date:** 2/10/14 **Time:** 8:17
REVIEWED BY (Signature): _____ **Date:** 2/10/14 **Time:** 8:15

Relinquished By / Company Name: _____ **Date:** 2/10/14 **Time:** 8:15
Received By / Company Name: _____ **Date:** 2/10/14 **Time:** 8:15

ALS Field Services: Pickup Labor Rental Equipment
 Composite Sampling Other: _____

Special Processing: Standard CLP-like USACE
 Navy USACE

State Samples Collected In: NJ NY PA NC

Reportable to PADEP? Yes No
Sample Disposal: Lab Special

PWSID #: _____ **EDDS: Format Type:** _____

Rev 10/11

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Aqueous Waste Treatment Event

June 4, 2014

June 13, 2014

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name:	27058 Lewis Brothers Garage	Workorder:	2011045
Purchase Order:		Workorder ID:	27058 Lewis Brothers Garage

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, June 6, 2014.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

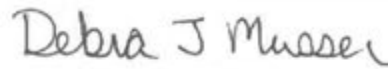
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2011045 27058 Lewis Brothers Garage

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2011045001	058-0602-Effluent 1	Water	6/4/2014 08:43	6/6/2014 14:45	Collected by Client
2011045002	058-0602-Effluent 2	Water	6/4/2014 12:50	6/6/2014 14:45	Collected by Client

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2011045 27058 Lewis Brothers Garage

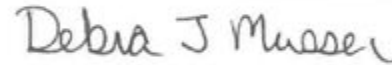
Lab ID: 2011045001

Date Collected: 6/4/2014 08:43 Matrix: Water

Sample ID: 058-0602-Effluent 1

Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94		%	62 - 133	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
4-Bromofluorobenzene (S)	99.2		%	79 - 114	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
Dibromofluoromethane (S)	80.8		%	78 - 116	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B	6/12/14 CJG	6/12/14 23:16	CJG	A



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

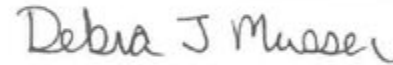
ANALYTICAL RESULTS

Workorder: 2011045 27058 Lewis Brothers Garage

Lab ID: **2011045002**
Sample ID: **058-0602-Effluent 2**

Date Collected: 6/4/2014 12:50 Matrix: Water
Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	88.5		%	62 - 133	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
Dibromofluoromethane (S)	78.3		%	78 - 116	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A
Toluene-d8 (S)	99.6		%	76 - 127	SW846 8260B	6/12/14 CJG	6/12/14 06:19	CJG	A


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



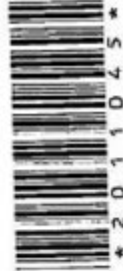
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC
ALS

1 of 1



Client Name: Pennsylvania Tectonics, Inc.		Container Type: CG		
Address: 723 Main Street		Container Size: 40 ml		
Archibald, PA 18403		Preservable: HCI		
Contact: Martin Gilgallon		ANALYSES/METHOD REQUESTED		
Phone#: (570) 487-1959				
Project Name#: Lewis Brothers Garage / 27058		Enter Number of Containers Per Sample or Field Results Below.		
Bill To:				
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.				
Date Required: _____ Approved By: _____				
Email? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N patectonics@hotmail.com				
Fax? <input type="checkbox"/> Y <input type="checkbox"/> N				
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	Matrix
1 058-0602-Effluent 1		6/4/14	0843	G GW 2
2 058-0602-Effluent 2		6/4/14	1250	G GW 2
3				
4				
5				
6				
7				
8				
9				
10				
Project Comments:		Unleaded Gasoline - New List		
LOGGED BY (signature): <i>[Signature]</i>		DATE: 6/10/14 1430		
REVIEWED BY (signature): <i>[Signature]</i>		DATE: 6/10/14 1430		
Relinquished By / Company Name		Date	Time	Received By / Company Name
1 <i>[Signature]</i> PA Tectonics		6/5/14	1400	2 Fed Ex Ground
3				4 <i>[Signature]</i> AS
5				6
7				8
9				10
ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor		Special Processing		
<input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment		USACE <input type="checkbox"/> Navy <input type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input checked="" type="checkbox"/> NC <input type="checkbox"/>		
Other: _____		Reportable to PADEP? Yes <input type="checkbox"/> No <input type="checkbox"/>		
Sample Disposal Lab <input type="checkbox"/> Special <input type="checkbox"/>		PWSID # _____		
EDDS: Format Type _____		State Samples Collected in _____		

Aqueous Waste Treatment Event

September 30, 2015

October 8, 2015

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name:	27058 Lewis Brothers Garage	Workorder:	2099565
Purchase Order:		Workorder ID:	27058 Lewis Brothers Garage

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Monday, October 5, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

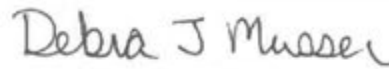
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2099565 27058 Lewis Brothers Garage

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2099565001	058-0930-Effluent	Water	9/30/2015 15:15	10/5/2015 09:54	Collected by Client

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2099565 27058 Lewis Brothers Garage

 Lab ID: **2099565001** Date Collected: 9/30/2015 15:15 Matrix: Water
 Sample ID: **058-0930-Effluent** Date Received: 10/5/2015 09:54

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/7/15 21:57	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/15 21:57	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/15 21:57	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/7/15 21:57	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/7/15 21:57	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/7/15 21:57	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/7/15 21:57	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/15 21:57	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/15 21:57	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84		%	62 - 133	SW846 8260B		10/7/15 21:57	CJG	A
4-Bromofluorobenzene (S)	109		%	79 - 114	SW846 8260B		10/7/15 21:57	CJG	A
Dibromofluoromethane (S)	81.8		%	78 - 116	SW846 8260B		10/7/15 21:57	CJG	A
Toluene-d8 (S)	91.4		%	76 - 127	SW846 8260B		10/7/15 21:57	CJG	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Aqueous Waste Treatment Event

May 3, 2016

May 11, 2016

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name:	Routine Sample Submission	Workorder:	2141839
Purchase Order:		Workorder ID:	Lewis Bro's/ 27058

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 6, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

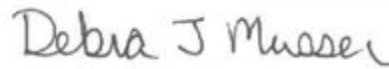
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2141839 Lewis Bro's/27058

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2141839001	058-0503-Effluent 1	Water	5/3/2016 11:05	5/6/2016 09:40	Collected by Client

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

ALS Environmental Laboratory Locations Across North America

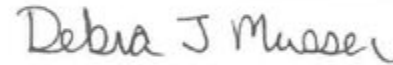
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2141839 Lewis Bro's/27058

Lab ID: **2141839001** Date Collected: 5/3/2016 11:05 Matrix: Water
Sample ID: **058-0503-Effluent 1** Date Received: 5/6/2016 09:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			5/11/16 09:56	SYB	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			5/11/16 09:56	SYB	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			5/11/16 09:56	SYB	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			5/11/16 09:56	SYB	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			5/11/16 09:56	SYB	B
Toluene	ND		ug/L	1.0	SW846 8260B			5/11/16 09:56	SYB	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			5/11/16 09:56	SYB	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/11/16 09:56	SYB	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/11/16 09:56	SYB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.8		%	62 - 133	SW846 8260B			5/11/16 09:56	SYB	B
4-Bromofluorobenzene (S)	88.7		%	79 - 114	SW846 8260B			5/11/16 09:56	SYB	B
Dibromofluoromethane (S)	84.7		%	78 - 116	SW846 8260B			5/11/16 09:56	SYB	B
Toluene-d8 (S)	85.8		%	76 - 127	SW846 8260B			5/11/16 09:56	SYB	B


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier: DNV
Tracking #: DNV

Co. Name: PENNSYLVANIA TELETONES, INC.
Contact (Phone No.): MARTIN CILGALIAN Phone: 570-487-1959
Address: 723 MAIN STREET
ACHBARD PA 18403

Bill to (if different than Report to): PO#:

Project Name#: LSWIS BROS / 27058 ALS Quote #:
TAT: Normal-Standard TAT is 10-12 business days. Date Required:
 Rush-Subject to ALS approval and surcharges. Approved By:

Email? -Y Hg:lgg@lowepesthetics.com
Fax? -Y No:

Sample Description/Location <small>(as it will appear on the lab report)</small>	COC Comments	Sample Date	Military Time
1 <u>058-0503-EFFLUENT 11</u>		5.3.16	1105
2			
3			
4			
5			
6			
7			
8			

Project Comments:

SAMPLED BY (Please Print):	Relinquished By / Company Name	Date	Time	Date	Time
<u>KEVIN CURRA</u>		5.4.16	0700		
	<u>Johnnie</u>			5.16.16	0800

Container		Type		Size		Preservative	
CG	CG	40ml	40ml				
ANALYSES/METHOD REQUESTED							
Enter Number of Containers Per Analysis							
Correct container?	Y	N	Correct sample volume?	Y	N	Correct preservation?	Y
Customary seals Present?	Y	N	(If present) Seals intact?	Y	N	Received on ice?	Y
COC/Labels complete/accurate?	Y	N	Headspace/voids?	Y	N	Container in good condition?	Y
Notes:							
Therm. ID: <u>14352</u>							
Cooler Temp: <u>45</u>							
Permit No: <u>45</u>							

Data Deliverables		SDWA Form(s)		Data Samples Collected by?	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> CLP-like	yes	no	MD	
<input type="checkbox"/> NJ-Reduced	<input type="checkbox"/> NJ-Full	yes	no	NJ	
<input type="checkbox"/> If yes, format type		yes	no	NY	
		yes	no	PA	
Other: <u>SDWA</u>					

ALS FIELD SERVICES	
<input type="checkbox"/> Pickup	<input type="checkbox"/> Other:
<input type="checkbox"/> Labor	
<input type="checkbox"/> Composite Sampling	
<input type="checkbox"/> Rental Equipment	



APPENDIX S

Base Survey Map & Points Files

ROBIN L. AND WALTER PEREGRIN
 INSTRUMENT NUMBER 200800446
 1-7-2008

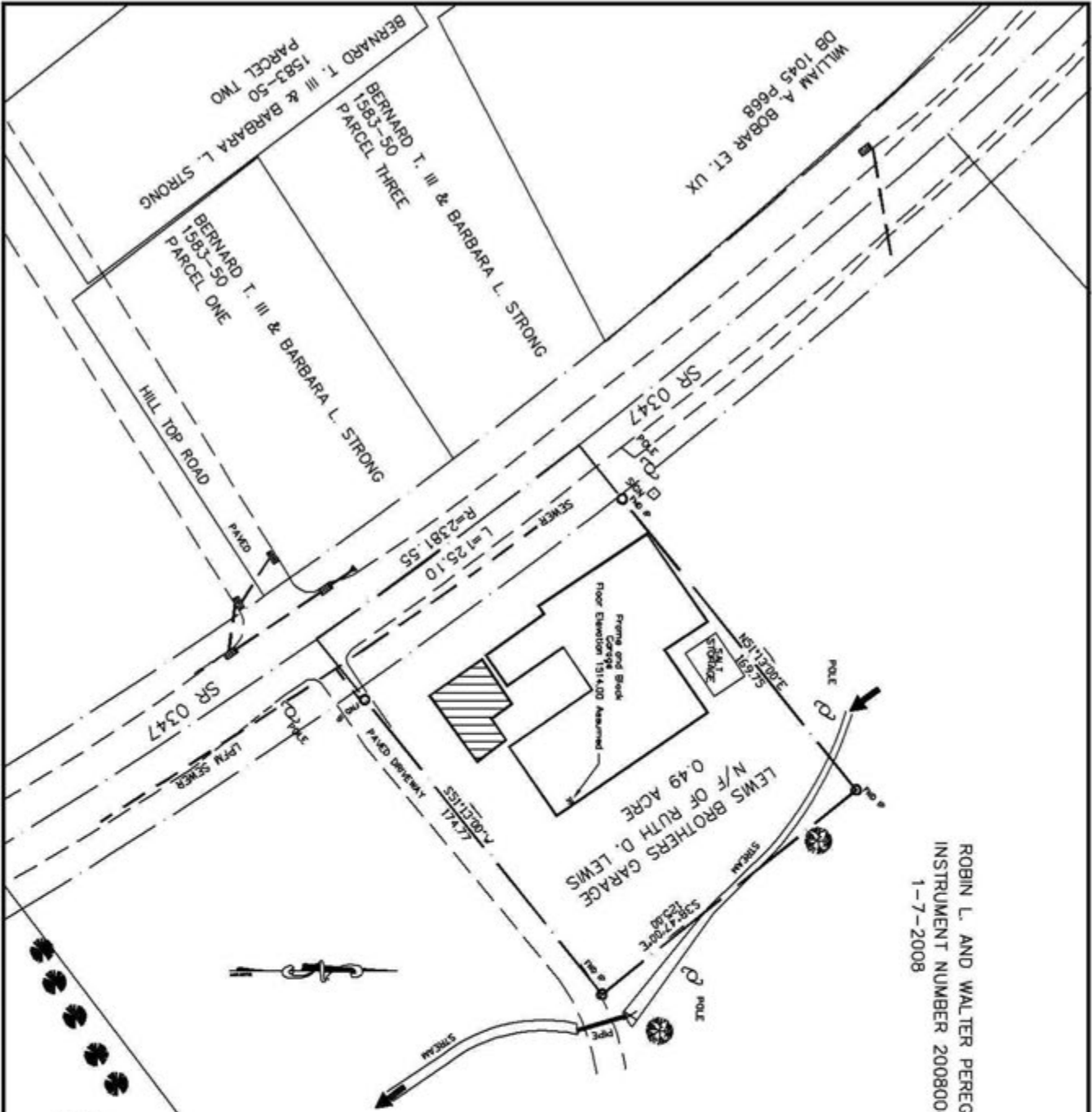
JOHN A. AND DENAE M. YOUNG
 INSTRUMENT NUMBER 201102825
 2-4-2014



DEED PLOT PLAN
LEWIS BROTHERS GARAGE
 SCOTT TOWNSHIP
 LACKAWANNA COUNTY, PENNSYLVANIA

PETE DEWIRE, PLS
 521 State School Road
 Sellinsgrove, Pa. 17870

GRAPHIC SCALE



**Lewis Brother Garage Property
Site Survey
Summary of Points Information**

Well	Easting	Northing	Top of Casing	Surface Elevation
MW-1S	19928.4076	10017.0115	1513.59	1514.01
MW-2S	19899.0373	9899.3683	1513.69	1514.06
MW-3S	19915.0256	9875.5215	1513.35	1513.93
MW-4S	19955.4991	9913.3673	1511.26	1511.72
MW-5S	19998.5823	9971.1161	1511.21	1511.6
MW-6S	19859.4837	9969.4699	1515.44	1515.91
MW-7S	19841.3153	9809.657	1514.48	1514.72
MW-8S	19556.8149	10080.0998	1526.38	1526.83
MW-9S	19714.9049	9730.6705	1524.72	1525.04
MW-10S	20017.6211	9757.568	1504.43	1504.67
MW-11S	20101.8348	9799.125	1499.42	1499.72
MW-12S	20189.3039	9628.2171	1487.03	1487.53
MW-13S	20363.9264	9685.855	1472.23	1472.72
MW-1D	19978.8879	9992.1077	1512.22	1512.62
MW-2D	19916.7829	9886.4651	1512.91	1513.33
MW-6D	19862.0199	9952.6337	1515.23	1515.78
MW-7D	19847.9235	9814.5669	1513.83	1514.21
MW-8D	19564.2785	10087.0554	1525.71	1526.17
MW-9D	19707.974	9726.4632	1525.3	1525.59
MW-10D	20026.2717	9761.2516	1503.97	1504.34
MW-11D	20108.2918	9801.4397	1499.18	1499.5
MW-12D	20180.8989	9625.7609	1487.48	1487.94
MW-13D	20369.4026	9688.9283	1471.85	1472.33
MW-14s	20277.5044	9880.1582	1493.49	1493.93
MW-15s	20416.8037	9357.4763	1457.6	1458.04
MW-16s	20232.5729	9505.2593	1482.92	1483.58
MW-17s	20008.7985	9551.0932	1502.17	1502.5
SW-1	19938.5	10050.2	1502.17	1502.5
SW-2	20047	9970.6	1502.17	1502.5
SW-3	20069.3	9893.2	1502.17	1502.5
SW-4	20004.6	9634.9	1502.17	1502.5
SW-5	20190.9	9540	1502.17	1502.5
SW-6	20409.1	9506.7	1502.17	1502.5
TB-1	19884.6483	9922.8202	1514.55	1514.55
TB-2	19886.3019	9911.4535	1514.58	1514.58
TB-3	19900.7462	9891.6784	1513.65	1513.65
TB-4	19899.952	9918.4013	1514.25	1514.25
TB-5	19915.8111	9902.1052	1513.56	1513.56
TB-6	19918.2949	9869.21	1512.49	1512.49
TB-7	19927.9363	9882.9085	1512.65	1512.65
TB-8	19940.6	9893.9	1511.76	1511.76
TB-9	19957.4119	9905.4339	1510.93	1510.93
TB-10	19979.8307	9921.5545	1510.09	1510.09
TB-11	19937.4	9923.9	1513.07	1513.07
TB-12	20024.5	9891.3	1507.96	1507.96
TB-13	19997.6509	9873.3626	1509.11	1509.11

**Lewis Brother Garage Property
Site Survey
Summary of Points Information**

Well	Easting	Northing	Top of Casing	Surface Elevation
TB-14	19962.5747	9849.3089	1510.26	1510.26
TB-15	20032.3	9845.1	1504.96	1504.96
TB-16	20000.1845	9824.3662	1507.21	1507.21
TB-17	20085.3	9825.5	1499.96	1499.96
TB-18	20042.3943	9796.9772	1502.46	1502.46
TB-19	20004.5	9773.3	1504.96	1504.96
TB-20	19854.3794	9985.7979	1515.7	1515.7
TB-21	19919.5521	10024.7807	1514.15	1514.15
TB-22	19922.4	9941.3	1513.37	1513.37
TB-23	19880.198	9930.5123	1514.85	1514.84
TB-24	19873.8496	9940.209	1515.28	1515.28
TB-25	19865.2959	9952.0076	1515.55	1515.55
SG-1	19938.25	10050.45	1511.19	1508.19
SG-2	20047.12	9971.17	1509.03	1506.15
VP-1	19851.4437	9961.5126	1515.96	1515.96
VP-2	19904.3559	9891.0938	1513.62	1513.62
VP-3	20002.4463	9965.914	1511.35	1511.35
VP-4	19935.744	10005.4009	1514.18	1514.18
OW-4	19928.4076	10017.0115	1513.59	1514.01
VP-5	20086.9	9730.6	1513.56	1513.56
VP-6	19899.8	9809.9	1513.56	1513.56
TB-26	19894.1452	9922.0363	1514.9	1514.9
TB-27	19896.1886	9903.5653	1514.63	1514.63
TB-28	19914.9583	9906.4639	1514.22	1514.22
TB-29	19872.5789	9926.3626	1515.74	1515.74
TB-30	19881.6086	9913.9057	1515.27	1515.27
TB-31	19892.8195	9898.3455	1514.65	1514.65
TB-32	19905.2833	9880.7065	1513.65	1513.65
TB-33	19913.6651	9869.0376	1513	1513
TB-34	19924.8667	9851.8844	1512.31	1512.31
TB-35	19940.5513	9829.7361	1511.16	1511.16
TB-36	19956.5581	9806.2756	1509.62	1509.62
TB-37	20032.5807	9752.0087	1504.3	1504.3
TB-38	20066.5479	9774.248	1501.78	1501.78
TB-39	20099.5082	9794.0498	1500.03	1500.03
TB-40	19897.7007	9800.3278	1513.19	1513.19
SVE-1	19904.5	9890.9	1513.69	1514.06
SVE-2	19921.3	9877.2	1513.35	1513.93
SVE-3	19931.6	9890.9	1513.35	1513.93
SVE OW-1	19912.8	9896.4	1513.69	1514.06
SVE OW-2	19907.7	9885.6	1513.69	1514.06
SVE OW-3	19929.3	9882.9	1513.35	1513.93
SVE OW-4	19934.6	9886.4	1513.35	1513.93

APPENDIX T

Historical Groundwater Elevation Summary Tables

09/27/16

Pennsylvania Tectonics, Inc.
Groundwater Elevation Data
Lewis Brothers - Shallow Monitoring Wells

Date	Number	MW-1s Static	MW-1s Elevation	MW-1s GW Elevation	MW-2s Static	MW-2s Elevation	MW-2s GW Elevation	MW-3s Static	MW-3s Elevation	MW-3s GW Elevation	MW-4s Static	MW-4s Elevation	MW-4s GW Elevation	MW-5s Static	MW-5s Elevation	MW-5s GW Elevation
3/12/2008	39519.00	NA	1,513.59	NA	12.42	1,513.69	1,501.27	11.02	1,513.35	1,502.33	6.73	1,511.26	1,504.53	7.85	1,511.21	1,503.36
3/22/2008	39529.00	10.08	1,513.59	1,503.51	12.68	1,513.69	1,501.01	11.57	1,513.35	1,501.78	6.37	1,511.26	1,504.89	7.60	1,511.21	1,503.61
4/5/2008	39543.00	10.32	1,513.59	1,503.27	NA	1,513.69	NA	NA	1,513.35	NA	9.36	1,511.26	1,501.90	8.29	1,511.21	1,502.92
4/28/2008	39566.00	11.69	1,513.59	1,501.90	13.75	1,513.69	1,499.94	12.24	1,513.35	1,501.11	NA	1,511.26	NA	9.84	1,511.21	1,501.37
4/30/2008	39568.00	11.58	1,513.59	1,502.01	14.25	1,513.69	1,499.44	12.58	1,513.35	1,500.77	NA	1,511.26	NA	10.00	1,511.21	1,501.21
5/2/2008	39570.00	11.45	1,513.59	1,502.14	14.09	1,513.69	1,499.60	12.70	1,513.35	1,500.65	10.21	1,511.26	1,501.05	10.17	1,511.21	1,501.04
5/5/2008	39573.00	11.52	1,513.59	1,502.07	14.38	1,513.69	1,499.31	12.82	1,513.35	1,500.53	10.28	1,511.26	1,500.98	10.27	1,511.21	1,500.94
5/9/2008	39577.00	11.55	1,513.59	1,502.04	13.14	1,513.69	1,500.55	12.85	1,513.35	1,500.50	NA	1,511.26	NA	10.33	1,511.21	1,500.88
5/16/2008	39584.00	11.23	1,513.59	1,502.36	13.89	1,513.69	1,499.80	12.50	1,513.35	1,500.85	NA	1,511.26	NA	9.96	1,511.21	1,501.25
5/27/2008	39595.00	10.93	1,513.59	1,502.66	13.69	1,513.69	1,500.00	12.26	1,513.35	1,501.09	NA	1,511.26	NA	9.68	1,511.21	1,501.53
6/3/2008	39602.00	10.98	1,513.59	1,502.61	13.90	1,513.69	1,499.79	12.70	1,513.35	1,500.65	9.98	1,511.26	1,501.28	9.86	1,511.21	1,501.35
6/9/2008	39608.00	11.17	1,513.59	1,502.42	14.89	1,513.69	1,498.80	12.64	1,513.35	1,500.71	10.15	1,511.26	1,501.11	10.14	1,511.21	1,501.07
6/27/2008	39626.00	12.26	1,513.59	1,501.33	NA	1,513.69	NA	NA	1,513.35	NA	10.65	1,511.26	1,500.61	11.26	1,511.21	1,499.95
7/2/2008	39631.00	12.51	1,513.59	1,501.08	NA	1,513.69	NA	NA	1,513.35	NA	11.04	1,511.26	1,500.22	11.50	1,511.21	1,499.71
7/3/2008	39632.00	12.58	1,513.59	1,501.01	14.86	1,513.69	1,498.83	12.82	1,513.35	1,500.53	11.02	1,511.26	1,500.24	11.52	1,511.21	1,499.69
7/10/2008	39639.00	12.77	1,513.59	1,500.82	14.99	1,513.69	1,498.70	13.00	1,513.35	1,500.35	11.23	1,511.26	1,500.03	11.70	1,511.21	1,499.51
7/28/2008	39657.00	12.77	1,513.59	1,500.82	NA	1,513.69	NA	NA	1,513.35	NA	NA	1,511.26	NA	11.27	1,511.21	1,499.94
8/1/2008	39661.00	12.85	1,513.59	1,500.74	14.66	1,513.69	1,499.03	12.83	1,513.35	1,500.52	11.09	1,511.26	1,500.17	11.28	1,511.21	1,499.93
8/6/2008	39666.00	12.89	1,513.59	1,500.70	NA	1,513.69	NA	NA	1,513.35	NA	11.59	1,511.26	1,499.67	11.54	1,511.21	1,499.67
8/11/2008	39671.00	12.87	1,513.59	1,500.72	NA	1,513.69	NA	NA	1,513.35	NA	11.70	1,511.26	1,499.56	11.57	1,511.21	1,499.64
10/10/2008	39731.00	15.37	1,513.59	1,498.22	NA	1,513.69	NA	NA	1,513.35	NA	14.79	1,511.26	1,496.47	14.90	1,511.21	1,496.31
10/15/2008	39736.00	15.99	1,513.59	1,497.60	NA	1,513.69	NA	NA	1,513.35	NA	15.13	1,511.26	1,496.13	15.13	1,511.21	1,496.08
11/3/2008	39755.00	15.36	1,513.59	1,498.23	NA	1,513.69	NA	16.17	1,513.35	1,497.18	14.37	1,511.26	1,496.89	13.25	1,511.21	1,497.96
12/8/2008	39790.00	14.02	1,513.59	1,499.57	NA	1,513.69	NA	NA	1,513.35	NA	12.90	1,511.26	1,498.36	12.3	1,511.21	1,498.91
4/6/2009	39909.00	11.87	1,513.59	1,501.72	13.36	1,513.69	1,500.33	11.96	1,513.35	1,501.39	9.85	1,511.26	1,501.41	10	1,511.21	1,501.21
3/8/2010	40245.00	12.98	1,513.59	1,500.61	15.19	1,513.69	1,498.50	13.76	1,513.35	1,499.59	11.89	1,511.26	1,499.37	11.54	1,511.21	1,499.67
8/2/2010	40392.00	14.90	1,513.59	1,498.69	17.65	1,513.69	1,496.04	16.23	1,513.35	1,497.12	13.45	1,511.26	1,497.81	14.21	1,511.21	1,497.00
9/26/2011	40812.00	9.35	1,513.59	1,504.24	11.57	1,513.69	1,502.12	10.36	1,513.35	1,502.99	7.25	1,511.26	1,504.01	7.48	1,511.21	1,503.73
11/9/2011	40856.00	9.87	1,513.59	1,503.72	11.77	1,513.69	1,501.92	10.54	1,513.35	1,502.81	7.69	1,511.26	1,503.57	8.32	1,511.21	1,502.89
6/12/2012	41072.00	10.74	1,513.59	1,502.85	13.81	1,513.69	1,499.88	11.62	1,513.35	1,501.73	8.41	1,511.26	1,502.85	9.28	1,511.21	1,501.93
8/9/2012	41130.00	13.12	1,513.59	1,500.47	15.75	1,513.69	1,497.94	14.69	1,513.35	1,498.66	10.91	1,511.26	1,500.35	11.66	1,511.21	1,499.55
10/2/2013	41549.00	12.24	1,513.59	1,501.35	14.41	1,513.69	1,499.28	13.54	1,513.35	1,499.81	9.69	1,511.26	1,501.57	10.84	1,511.21	1,500.37
2/3/2014	41673.00	NM	1,513.59	NA	13.42	1,513.69	1,500.27	12.20	1,513.35	1,501.15	8.96	1,511.26	1,502.30	9.74	1,511.21	1,501.47
6/2/2014	41792.00	10.26	1,513.59	1,503.33	12.18	1,513.69	1,501.51	10.97	1,513.35	1,502.38	7.48	1,511.26	1,503.78	8.59	1,511.21	1,502.62
11/20/2014	41963.00	18.62	1,513.59	1,494.97	20.26	1,513.69	1,493.43	19.17	1,513.35	1,494.18	16.31	1,511.26	1,494.95	16.64	1,511.21	1,494.57
10/6/2015	42283.00	NA	1,513.59	NA	18.43	1,513.69	1,495.26	17.38	1,513.35	1,495.97	14.30	1,511.26	1,496.96	14.32	1,511.21	1,496.89
3/30/2016	42459.00	NA	1,513.59	NA	12.68	1,513.69	1,501.01	13.74	1,513.35	1,499.61	11.18	1,511.26	1,500.08	10.32	1,511.21	1,500.89
6/22/2016	42543.00	13.93	1,513.59	1,499.66	15.41	1,513.69	1,498.28	14.39	1,513.35	1,498.96	11.41	1,511.26	1,499.85	11.92	1,511.21	1,499.29

NA Not Applicable

* A medium product density of 0.74 was utilized to compensate for the presence of free product in MW-2s and MW-3s, when applicable.

09/27/16

Pennsylvania Tectonics, Inc.
Groundwater Elevation Data
Lewis Brothers - Shallow Monitoring Wells

Date	Number	MW-6s Static	MW-6s Elevation	MW-6s GW Elevation	MW-7s Static	MW-7s Elevation	MW-7s GW Elevation	MW-8s Static	MW-8s Elevation	MW-8s GW Elevation	MW-9s Static	MW-9s Elevation	MW-9s GW Elevation	MW-10s Static	MW-10s Elevation	MW-10s GW Elevation
3/12/2008	39519.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
3/22/2008	39529.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
4/5/2008	39543.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
4/28/2008	39566.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
4/30/2008	39568.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
5/2/2008	39570.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
5/5/2008	39573.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
5/9/2008	39577.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
5/16/2008	39584.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
5/27/2008	39595.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
6/3/2008	39602.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
6/9/2008	39608.00	NA	1,515.44	NA	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
6/27/2008	39626.00	9.05	1,515.44	1,506.39	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
7/2/2008	39631.00	9.56	1,515.44	1,505.88	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
7/3/2008	39632.00	9.63	1,515.44	1,505.81	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
7/10/2008	39639.00	10.71	1,515.44	1,504.73	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
7/28/2008	39657.00	10.77	1,515.44	1,504.67	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
8/1/2008	39661.00	11.10	1,515.44	1,504.34	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
8/6/2008	39666.00	11.56	1,515.44	1,503.88	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
8/11/2008	39671.00	11.50	1,515.44	1,503.94	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
10/10/2008	39731.00	14.01	1,515.44	1,501.43	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
10/15/2008	39736.00	14.43	1,515.44	1,501.01	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
11/3/2008	39755.00	13.36	1,515.44	1,502.08	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
12/8/2008	39790.00	12.38	1,515.44	1,503.06	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
4/6/2009	39909.00	9.41	1,515.44	1,506.03	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
3/8/2010	40245.00	12.21	1,515.44	1,503.23	NA	1,514.48	NA	NA	1,526.38	NA	NA	1,524.72	NA	NA	1,504.43	NA
8/2/2010	40392.00	14.86	1,515.44	1,500.58	18.80	1,514.48	1,495.68	12.08	1,526.38	1,514.30	28.03	1,524.72	1,496.69	11.35	1,504.43	1,493.08
9/26/2011	40812.00	8.44	1,515.44	1,507.00	12.88	1,514.48	1,501.60	3.31	1,526.38	1,523.07	22.11	1,524.72	1,502.61	6.36	1,504.43	1,498.07
11/9/2011	40856.00	5.97	1,515.44	1,509.47	12.92	1,514.48	1,501.56	6.43	1,526.38	1,519.95	21.92	1,524.72	1,502.80	6.43	1,504.43	1,498.00
6/12/2012	41072.00	9.35	1,515.44	1,506.09	13.94	1,514.48	1,500.54	6.82	1,526.38	1,519.56	23.11	1,524.72	1,501.61	7.19	1,504.43	1,497.24
8/9/2012	41130.00	11.91	1,515.44	1,503.53	16.91	1,514.48	1,497.57	10.58	1,526.38	1,515.80	26.15	1,524.72	1,498.57	9.72	1,504.43	1,494.71
10/2/2013	41549.00	11.24	1,515.44	1,504.20	15.70	1,514.48	1,498.78	10.33	1,526.38	1,516.05	24.87	1,524.72	1,499.85	8.74	1,504.43	1,495.69
2/3/2014	41673.00	10.29	1,515.44	1,505.15	14.41	1,514.48	1,500.07	8.48	1,526.38	1,517.90	23.62	1,524.72	1,501.10	7.58	1,504.43	1,496.85
6/2/2014	41792.00	8.89	1,515.44	1,506.55	13.15	1,514.48	1,501.33	6.68	1,526.38	1,519.70	22.34	1,524.72	1,502.38	6.45	1,504.43	1,497.98
11/20/2014	41963.00	15.14	1,515.44	1,500.30	21.51	1,514.48	1,492.97	13.96	1,526.38	1,512.42	31.30	1,524.72	1,493.42	14.04	1,504.43	1,490.39
10/6/2015	42283.00	15.56	1,515.44	1,499.88	19.63	1,514.48	1,494.85	11.70	1,526.38	1,514.68	29.40	1,524.72	1,495.32	12.12	1,504.43	1,492.31
3/30/2016	42459.00	11.53	1,515.44	1,503.91	15.34	1,514.48	1,499.14	6.60	1,526.38	1,519.78	24.78	1,524.72	1,499.94	8.25	1,504.43	1,496.18
6/22/2016	42543.00	13.5	1,515.44	1,501.94	16.66	1,514.48	1,497.82	10.58	1,526.38	1,515.80	26.08	1,524.72	1,498.64	9.41	1,504.43	1,495.02

NA Not Applicable
* 0.24' of casing was cut from MW-8s during manway repair on May 3, 2016.

09/27/16

**Pennsylvania Tectonics, Inc.
Groundwater Elevation Data
Lewis Brothers - Shallow Monitoring Wells**

Date	Number	MW-11s Static	MW-11s Elevation	MW-11s GW Elevation	MW-12s Static	MW-12s Elevation	MW-12s GW Elevation	MW-13s Static	MW-13s Elevation	MW-13s GW Elevation	MW-14s Static	MW-14s Elevation	MW-14s GW Elevation	MW-15s Static	MW-15s Elevation	MW-15s GW Elevation
3/12/2008	39519.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
3/22/2008	39529.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
4/5/2008	39543.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
4/28/2008	39566.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
4/30/2008	39568.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
5/2/2008	39570.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
5/5/2008	39573.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
5/9/2008	39577.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
5/16/2008	39584.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
5/27/2008	39595.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
6/3/2008	39602.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
6/9/2008	39608.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
6/27/2008	39626.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
7/2/2008	39631.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
7/3/2008	39632.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
7/10/2008	39639.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
7/28/2008	39657.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
8/1/2008	39661.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
8/6/2008	39666.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
8/11/2008	39671.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
10/10/2008	39731.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
10/15/2008	39736.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
11/3/2008	39755.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
12/8/2008	39790.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
4/6/2009	39909.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
3/8/2010	40245.00	NA	1,499.42	NA	NA	1,487.03	NA	NA	1,472.23	NA	NA	1,493.49	NA	NA	1,457.60	NA
8/2/2010	40392.00	6.50	1,499.42	1,492.92	8.18	1,487.03	1,478.85	15.96	1,472.23	1,456.27	NA	1,493.49	NA	NA	1,457.60	NA
9/26/2011	40812.00	1.51	1,499.42	1,497.91	0.66	1,487.03	1,486.37	14.55	1,472.23	1,457.68	2.29	1,493.49	1,491.20	3.49	1,457.60	1,454.11
11/9/2011	40856.00	1.65	1,499.42	1,497.77	4.38	1,487.03	1,482.65	15.25	1,472.23	1,456.98	6.71	1,493.49	1,486.78	3.51	1,457.60	1,454.09
6/12/2012	41072.00	2.35	1,499.42	1,497.07	3.61	1,487.03	1,483.42	14.64	1,472.23	1,457.59	2.66	1,493.49	1,490.83	4.96	1,457.60	1,452.64
8/9/2012	41130.00	4.77	1,499.42	1,494.65	2.82	1,487.03	1,484.21	15.86	1,472.23	1,456.37	7.97	1,493.49	1,485.52	6.34	1,457.60	1,451.26
10/2/2013	41549.00	3.92	1,499.42	1,495.50	5.67	1,487.03	1,481.36	15.53	1,472.23	1,456.70	8.14	1,493.49	1,485.35	4.25	1,457.60	1,453.35
2/3/2014	41673.00	2.87	1,499.42	1,496.55	4.98	1,487.03	1,482.05	14.89	1,472.23	1,457.34	7.63	1,493.49	1,485.86	7.63	1,457.60	1,449.97
6/2/2014	41792.00	1.85	1,499.42	1,497.57	4.10	1,487.03	1,482.93	14.68	1,472.23	1,457.55	7.19	1,493.49	1,486.30	5.15	1,457.60	1,452.45
11/20/2014	41963.00	9.22	1,499.42	1,490.20	8.57	1,487.03	1,478.46	16.17	1,472.23	1,456.06	10.53	1,493.49	1,482.96	10.13	1,457.60	1,447.47
10/6/2015	42283.00	7.33	1,499.42	1,492.09	5.87	1,487.03	1,481.16	15.59	1,472.23	1,456.64	9.43	1,493.49	1,484.06	10.32	1,457.60	1,447.28
3/30/2016	42459.00	3.51	1,499.42	1,495.91	4.69	1,487.03	1,482.34	15.86	1,472.23	1,456.37	7.71	1,493.49	1,485.78	7.18	1,457.60	1,450.42
6/22/2016	42543.00	4.73	1,499.42	1,494.69	7.41	1,487.03	1,479.62	16.07	1,472.23	1,456.16	9.21	1,493.49	1,484.28	10.28	1,457.60	1,447.32

NA Not Applicable

09/27/16

Pennsylvania Tectonics, Inc.
Groundwater Elevation Data
Lewis Brothers - Shallow Monitoring Wells

Date	Number	MW-16s Static	MW-16s Elevation	MW-16s GW Elevation	MW-17s Static	MW-17s Elevation	MW-17s GW Elevation	OW-1 Static	OW-1 Elevation	OW-1 GW Elevation	OW-2 Static	OW-2 Elevation	OW-2 GW Elevation	OW-3 Static	OW-3 Elevation	OW-3 GW Elevation
3/12/2008	39519.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
3/22/2008	39529.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
4/5/2008	39543.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
4/28/2008	39566.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
4/30/2008	39568.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
5/2/2008	39570.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
5/5/2008	39573.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
5/9/2008	39577.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
5/16/2008	39584.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
5/27/2008	39595.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
6/3/2008	39602.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
6/9/2008	39608.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
6/27/2008	39626.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
7/2/2008	39631.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
7/3/2008	39632.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
7/10/2008	39639.00	NA	1482.92	NA	NA	1502.17	NA	3.85	1513.48	1509.63	3.15	1512.77	1509.62	2.96	1512.49	1509.53
7/28/2008	39657.00	NA	1482.92	NA	NA	1502.17	NA	4.47	1513.48	1509.01	NA	1512.77	NA	3.57	1512.49	1508.92
8/1/2008	39661.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
8/6/2008	39666.00	NA	1482.92	NA	NA	1502.17	NA	4.95	1513.48	1508.53	5.28	1512.77	1507.49	4.06	1512.49	1508.43
8/11/2008	39671.00	NA	1482.92	NA	NA	1502.17	NA	5.31	1513.48	1508.17	4.66	1512.77	1508.11	4.42	1512.49	1508.07
10/10/2008	39731.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
10/15/2008	39736.00	NA	1482.92	NA	NA	1502.17	NA	9.45	1513.48	1504.03	8.76	1512.77	1504.01	8.54	1512.49	1503.95
11/3/2008	39755.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
12/8/2008	39790.00	NA	1482.92	NA	NA	1502.17	NA	NA	1513.48	NA	NA	1512.77	NA	NA	1512.49	NA
4/6/2009	39909.00	NA	1482.92	NA	NA	1502.17	NA	4.39	1513.48	1509.09	3.65	1512.77	1509.12	3.48	1512.49	1509.01
3/8/2010	40245.00	NA	1482.92	NA	NA	1502.17	NA	4.91	1513.48	1508.57	4.25	1512.77	1508.52	4.06	1512.49	1508.43
8/2/2010	40392.00	NA	1482.92	NA	NA	1502.17	NA	6.31	1513.48	1507.17	5.59	1512.77	1507.18	5.44	1512.49	1507.05
9/26/2011	40812.00	32.80	1482.92	1450.12	15.47	1502.17	1486.70	2.20	1513.48	1511.28	1.50	1512.77	1511.27	1.29	1512.49	1511.20
11/9/2011	40856.00	32.76	1482.92	1450.16	15.46	1502.17	1486.71	3.13	1513.48	1510.35	2.40	1512.77	1510.37	2.22	1512.49	1510.27
6/12/2012	41072.00	32.45	1482.92	1450.47	16.61	1502.17	1485.56	2.86	1513.48	1510.62	2.14	1512.77	1510.63	1.98	1512.49	1510.51
8/9/2012	41130.00	32.81	1482.92	1450.11	17.43	1502.17	1484.74	3.51	1513.48	1509.97	2.80	1512.77	1509.97	2.60	1512.49	1509.89
10/2/2013	41549.00	32.79	1482.92	1450.13	17.18	1502.17	1484.99	4.43	1513.48	1509.05	3.75	1512.77	1509.02	3.57	1512.49	1508.92
2/3/2014	41673.00	NM	1482.92	NA	16.66	1502.17	1485.51	4.17	1513.48	1509.31	4.88	1512.77	1507.89	4.02	1512.49	1508.47
6/2/2014	41792.00	32.73	1482.92	1450.19	16.05	1502.17	1486.12	3.02	1513.48	1510.46	2.37	1512.77	1510.40	2.15	1512.49	1510.34
11/20/2014	41963.00	32.85	1482.92	1450.07	19.84	1502.17	1482.33	8.24	1513.48	1505.24	7.59	1512.77	1505.18	7.39	1512.49	1505.10
10/6/2015	41963.00	32.76	1482.92	1450.16	18.76	1502.17	1483.41	5.17	1513.48	1508.31	4.44	1512.77	1508.33	4.25	1512.49	1508.24
3/30/2016	42459.00	32.71	1482.92	1450.21	16.20	1502.17	1485.97	5.17	1513.48	1508.31	4.56	1512.77	1508.21	4.29	1512.49	1508.20
6/22/2016	42543.00	32.75	1482.92	1450.17	17.47	1502.17	1484.70	4.70	1513.48	1508.78	4.04	1512.77	1508.73	3.83	1512.49	1508.66

NA Not Applicable

09/27/16

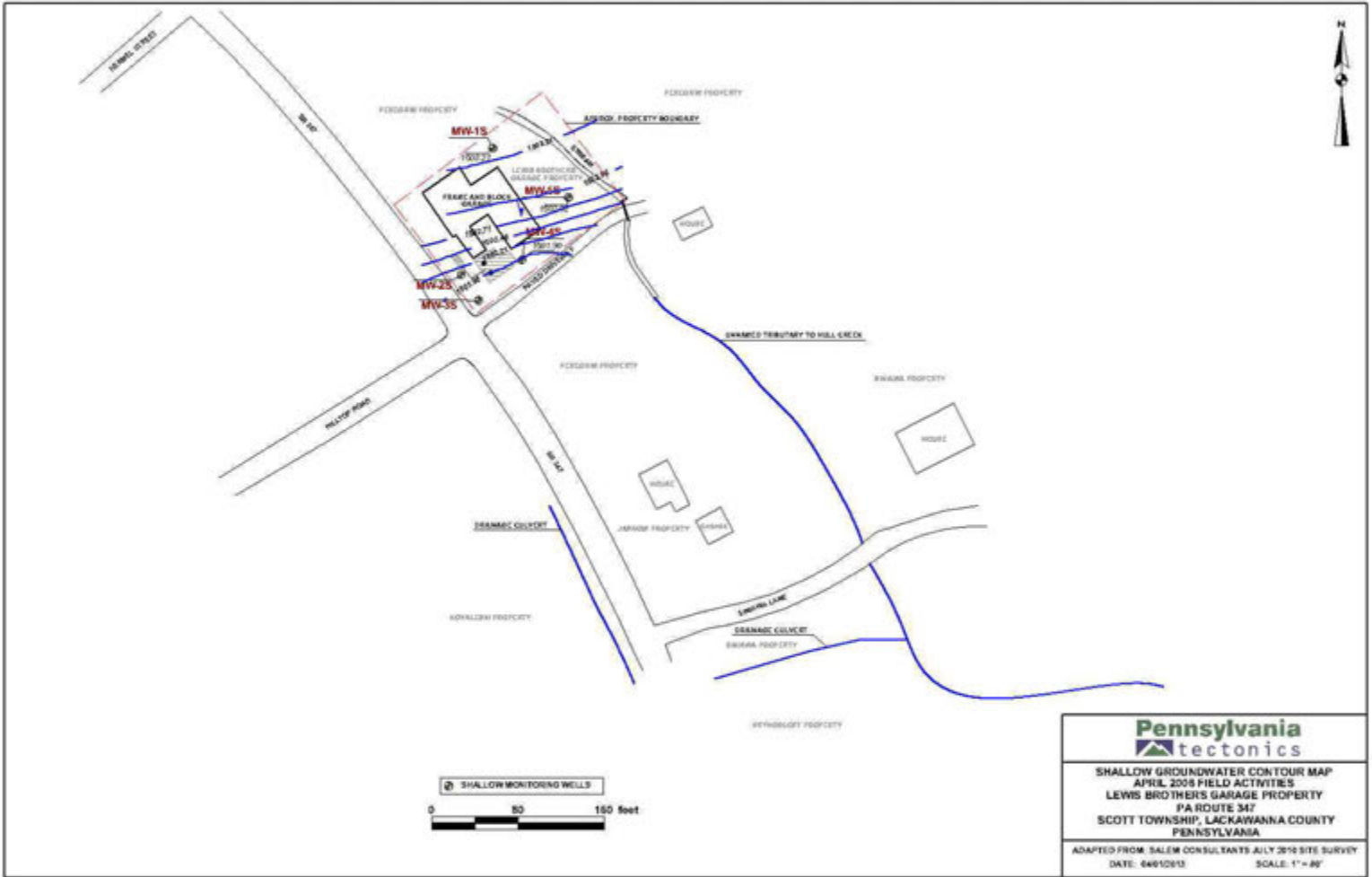
Pennsylvania Tectonics, Inc.
Groundwater Elevation Data
Lewis Brothers - Shallow Monitoring Wells

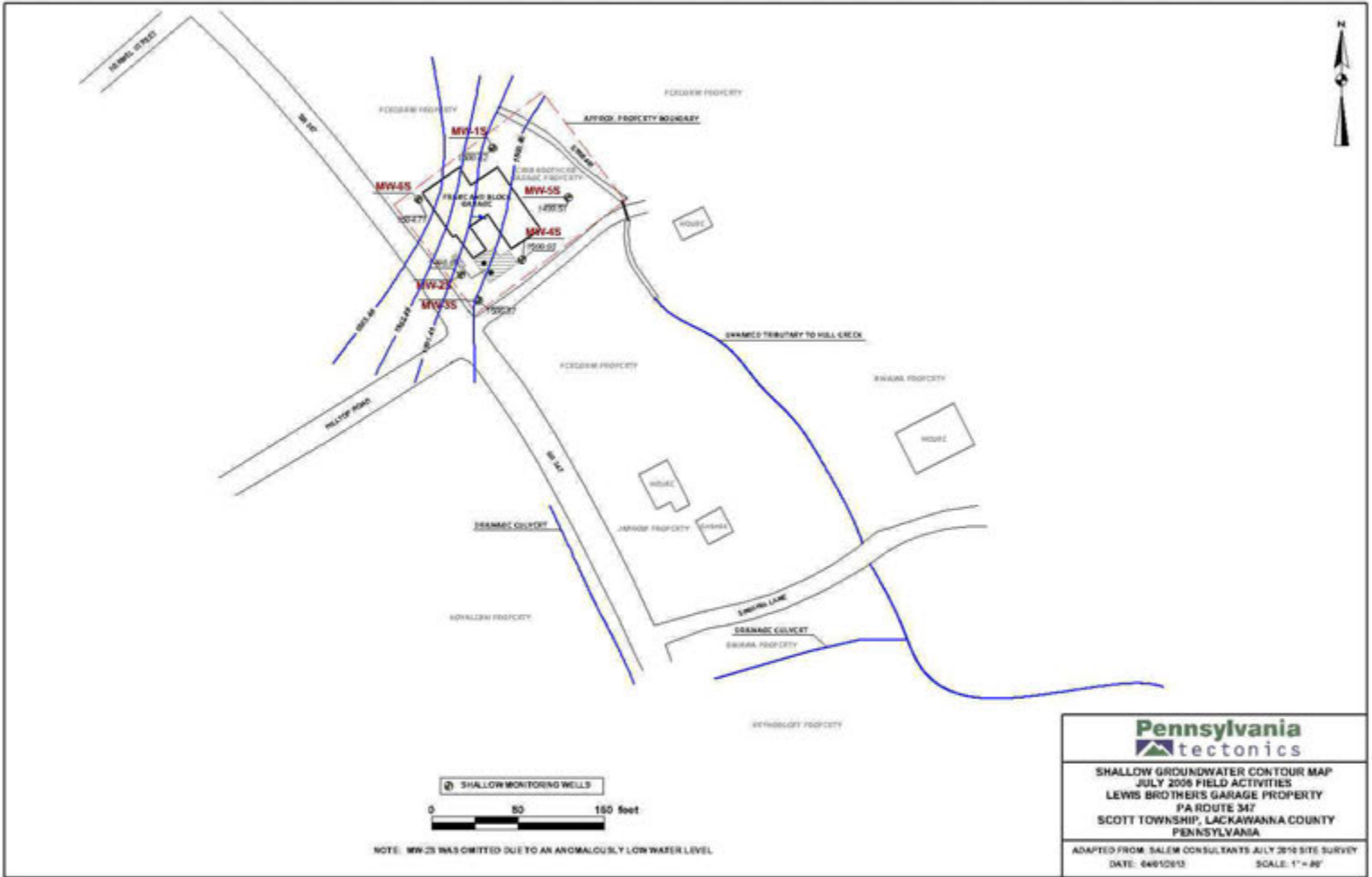
Date	Number	OW-4 Static	OW-4 Elevation	OW-4 GW Elevation	SG-1 Reading	SG-1 Elevation	Stream Elevation @ SG-1	SG-2 Reading	SG-2 Elevation	Stream Elevation @ SG-2
3/12/2008	39519.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
3/22/2008	39529.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
4/5/2008	39543.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
4/28/2008	39566.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
4/30/2008	39568.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
5/2/2008	39570.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
5/5/2008	39573.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
5/9/2008	39577.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
5/16/2008	39584.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
5/27/2008	39595.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
6/3/2008	39602.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
6/9/2008	39608.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
6/27/2008	39626.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
7/2/2008	39631.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
7/3/2008	39632.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
7/10/2008	39639.00	2.29	1,510.93	1,508.64	NA	1,509.14	NA	NA	1,508.98	NA
7/28/2008	39657.00	2.92	1,510.93	1,508.01	NA	1,509.14	NA	NA	1,508.98	NA
8/1/2008	39661.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
8/6/2008	39666.00	3.41	1,510.93	1,507.52	NA	1,509.14	NA	NA	1,508.98	NA
8/11/2008	39671.00	3.77	1,510.93	1,507.16	NA	1,509.14	NA	NA	1,508.98	NA
10/10/2008	39731.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
10/15/2008	39736.00	7.89	1,510.93	1,503.04	NA	1,509.14	NA	NA	1,508.98	NA
11/3/2008	39755.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
12/8/2008	39790.00	NA	1,510.93	NA	NA	1,509.14	NA	NA	1,508.98	NA
4/6/2009	39909.00	2.82	1,510.93	1,508.11	NA	1,509.14	NA	NA	1,508.98	NA
3/8/2010	40245.00	3.39	1,510.93	1,507.54	NA	1,509.14	NA	NA	1,508.98	NA
8/2/2010	40392.00	4.79	1,510.93	1,506.14	Dry	1,509.14	NA	Dry	1,508.98	NA
9/26/2011	40812.00	0.68	1,510.93	1,510.25	0.54	1,509.14	1,509.68	0.46	1,508.98	1,509.44
11/9/2011	40856.00	1.59	1,510.93	1,509.34	0.58	1,509.14	1,509.72	0.45	1,508.98	1,509.43
6/12/2012	41072.00	2.11	1,510.93	1,508.82	0.40	1,509.14	1,509.54	0.35	1,508.98	1,509.33
8/9/2012	41130.00	1.95	1,510.93	1,508.98	Dry	1,509.14	NA	Dry	1,508.98	NA
10/2/2013	41549.00	2.87	1,510.93	1,508.06	Dry	1,509.14	NA	Dry	1,508.98	NA
2/3/2014	41673.00	3.33	1,510.93	1,507.60	Dry	1,509.14	NA	Dry	1,508.98	NA
11/20/2014	41963.00	6.72	1,510.93	1,504.21	Dry	1,509.14	NA	Dry	1,508.98	NA
10/6/2015	42283.00	3.58	1,510.93	1,507.35	Dry	1,509.14	NA	Dry	1,508.98	NA
3/30/2016	42459.00	3.64	1,510.93	1,507.29	0.45	1,509.14	1,509.59	0.6	1,508.98	1,509.58
6/22/2016	42543.00	3.17	1,510.93	1,507.76	Dry	1,509.14	NA	Dry	1,508.98	NA

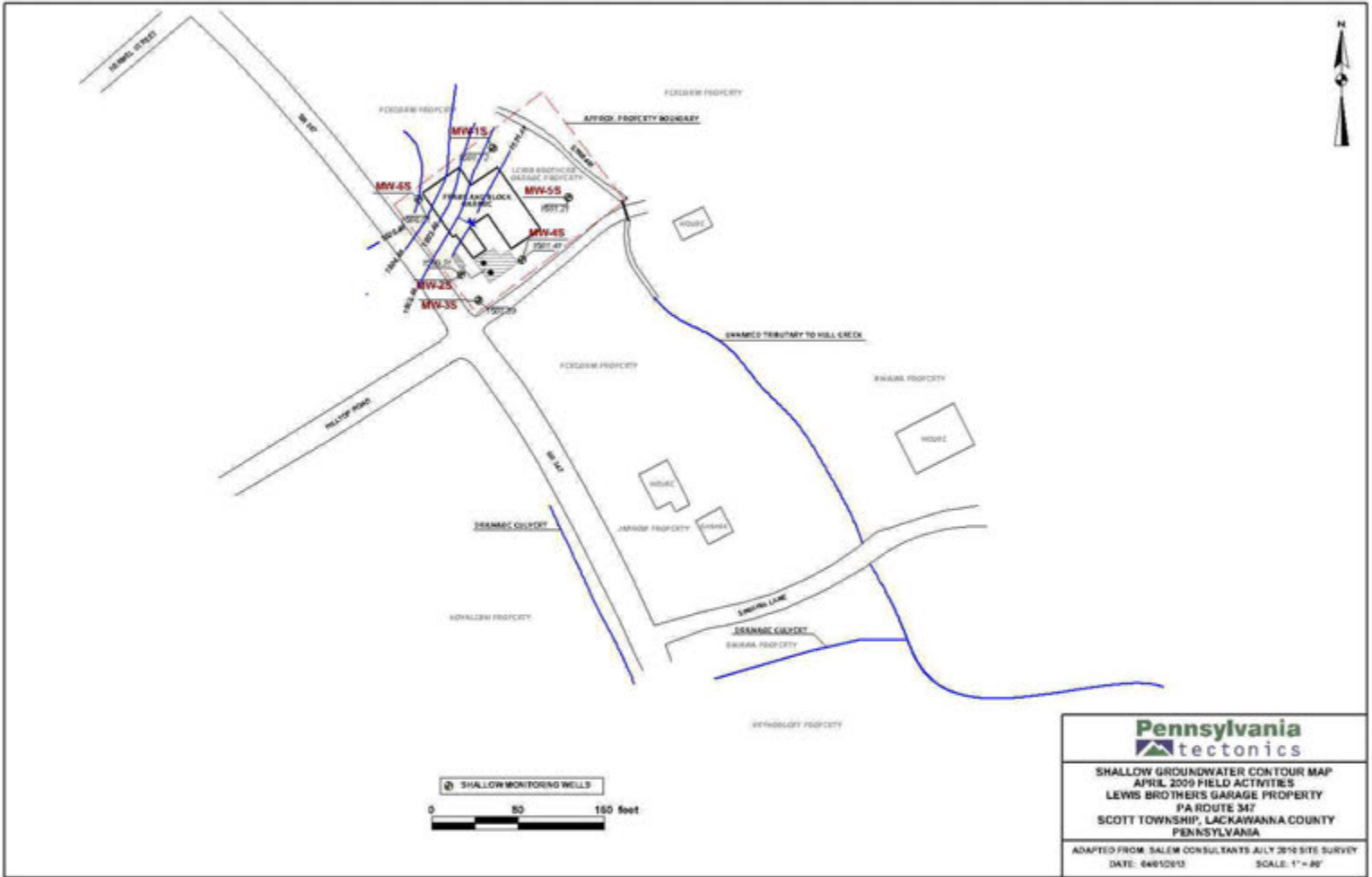
SG Stream Gauge
 NA Not Applicable

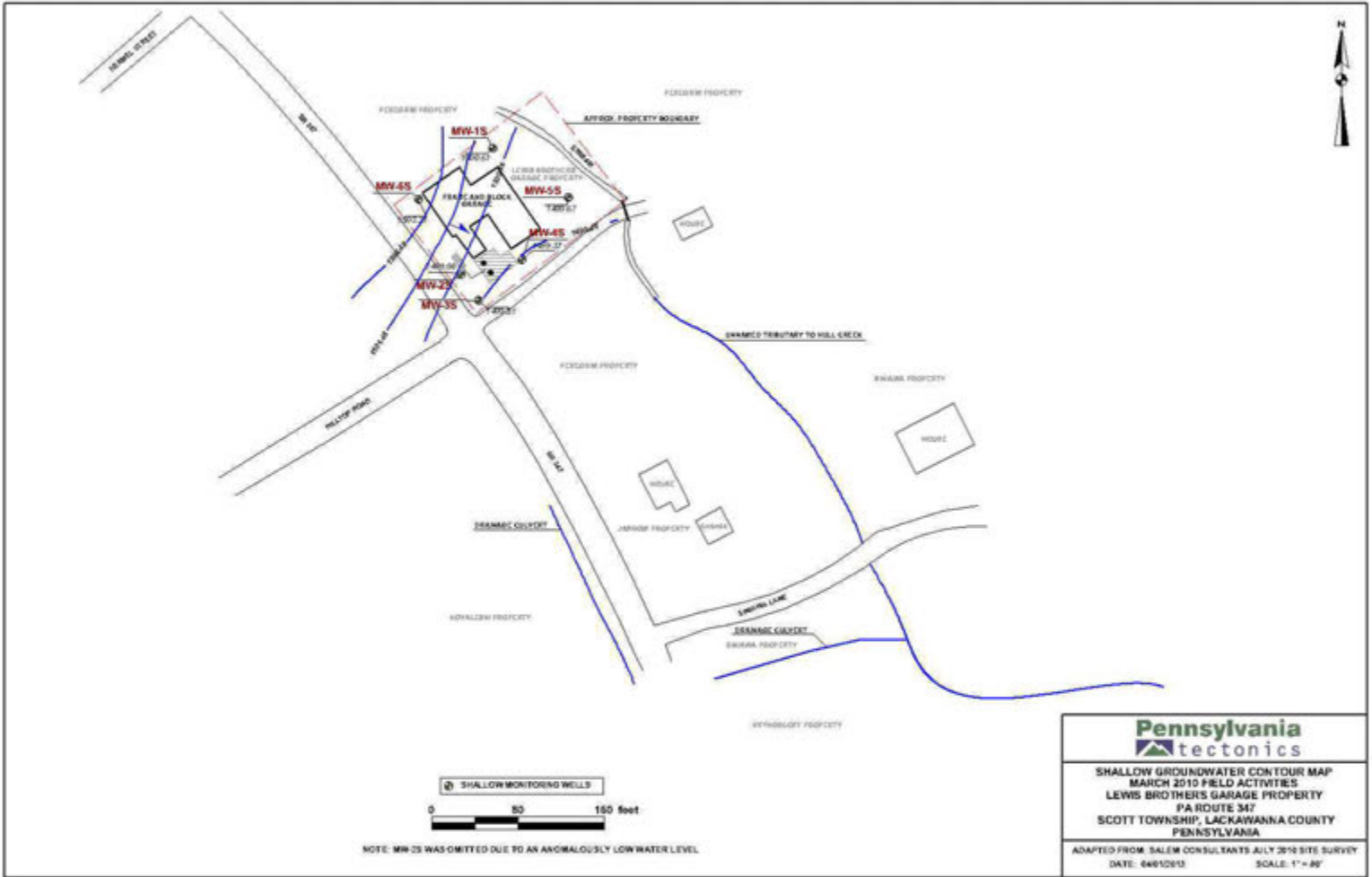
APPENDIX U

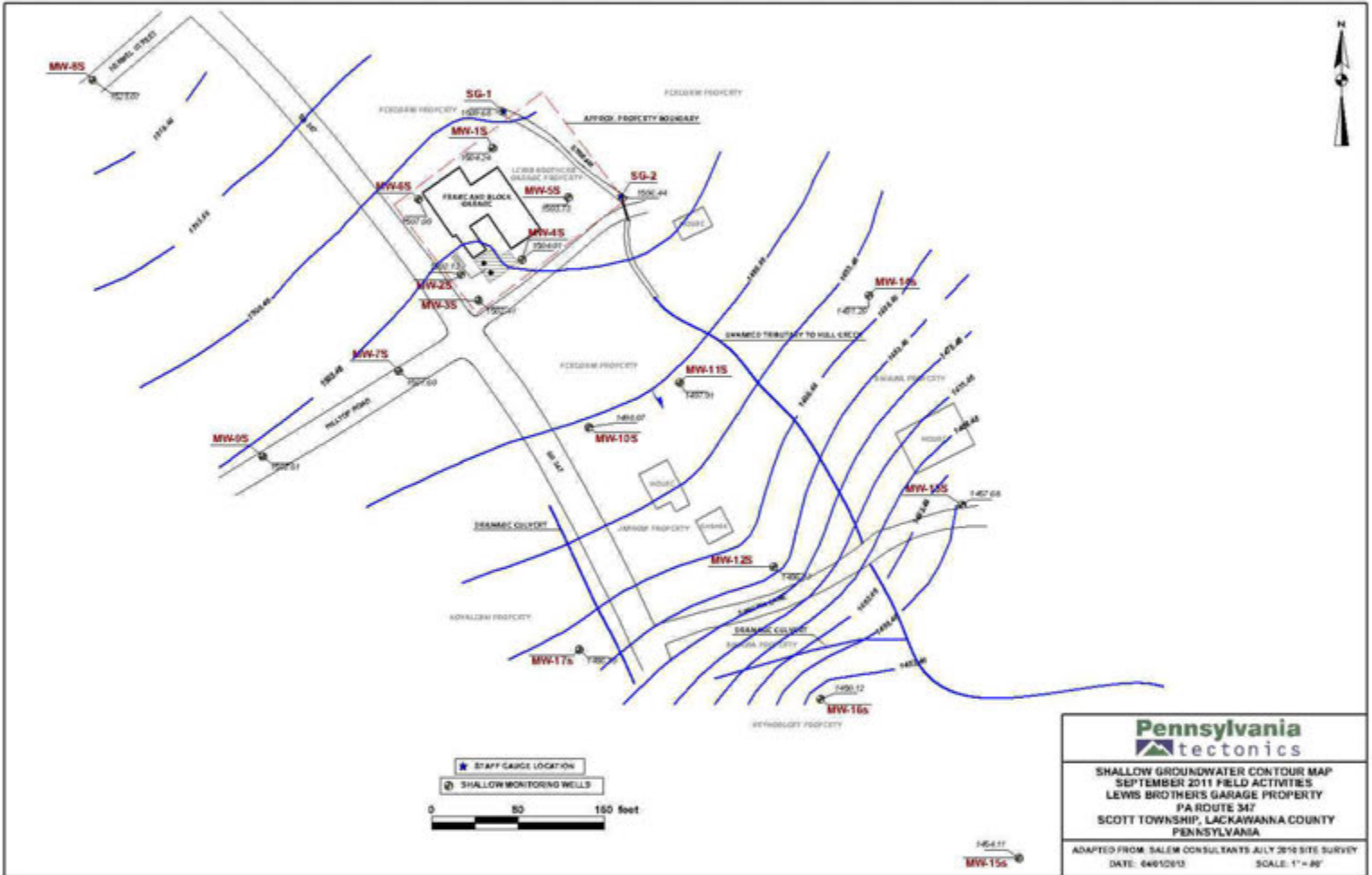
Groundwater Contour Maps

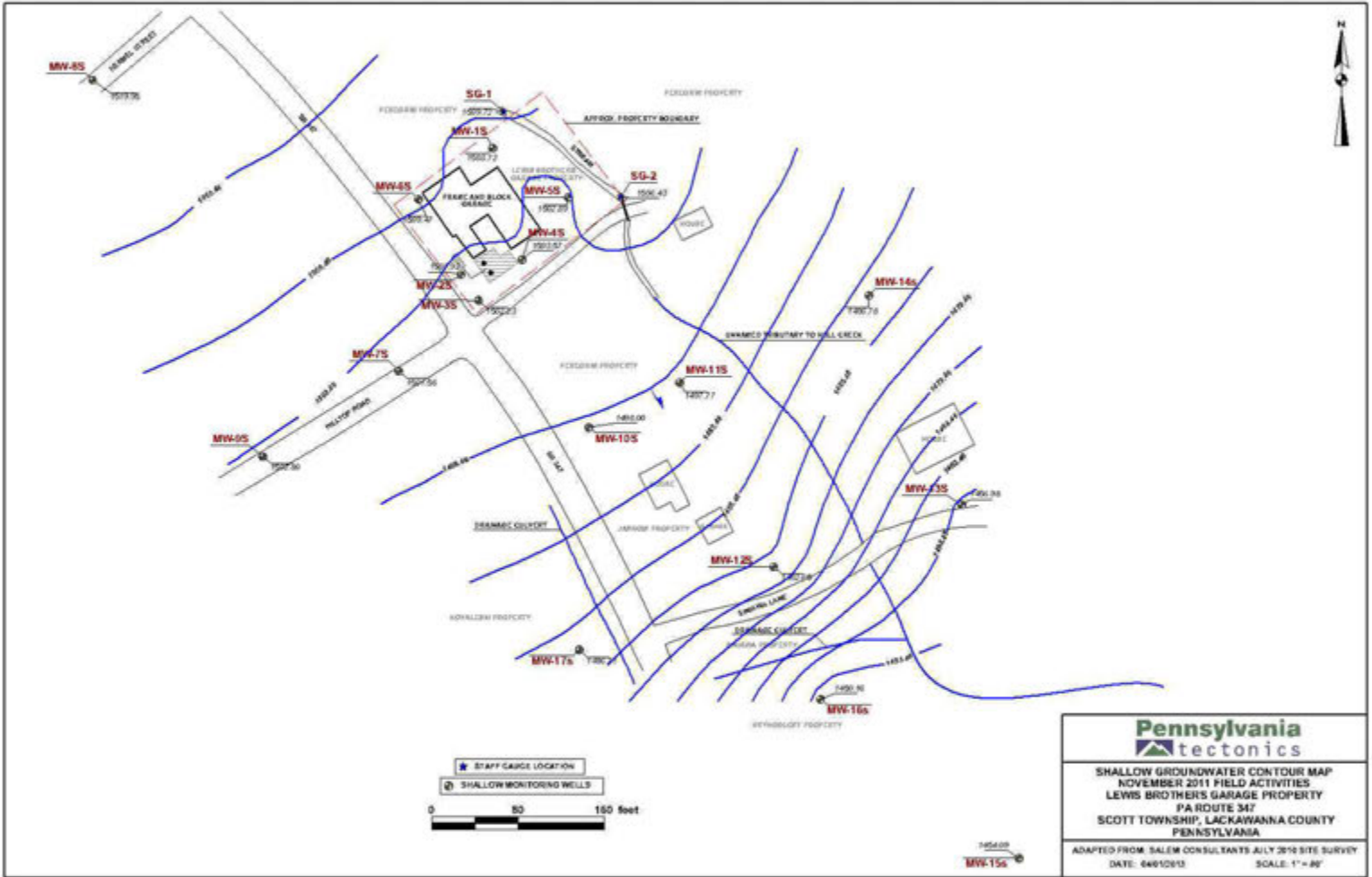


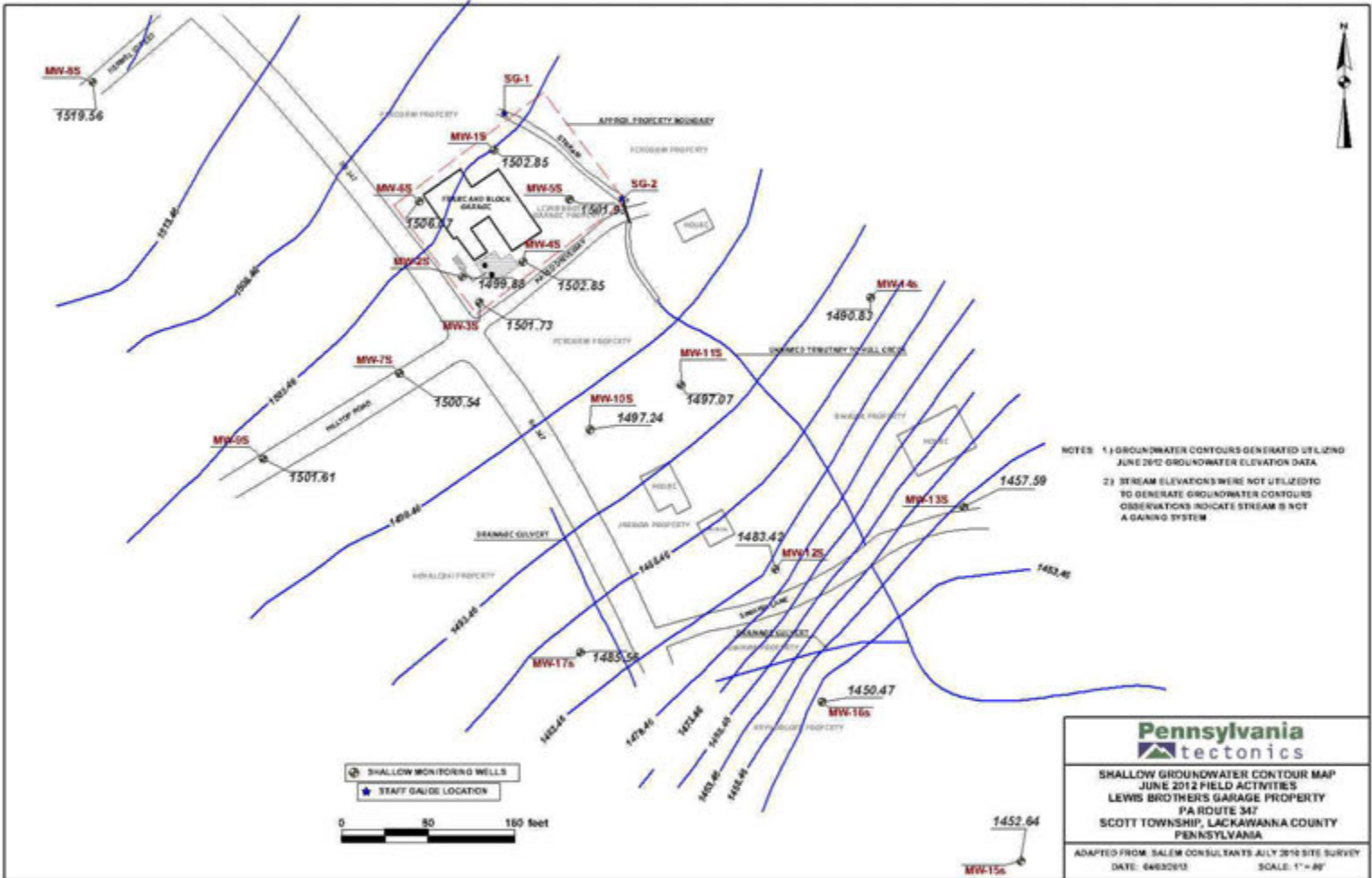




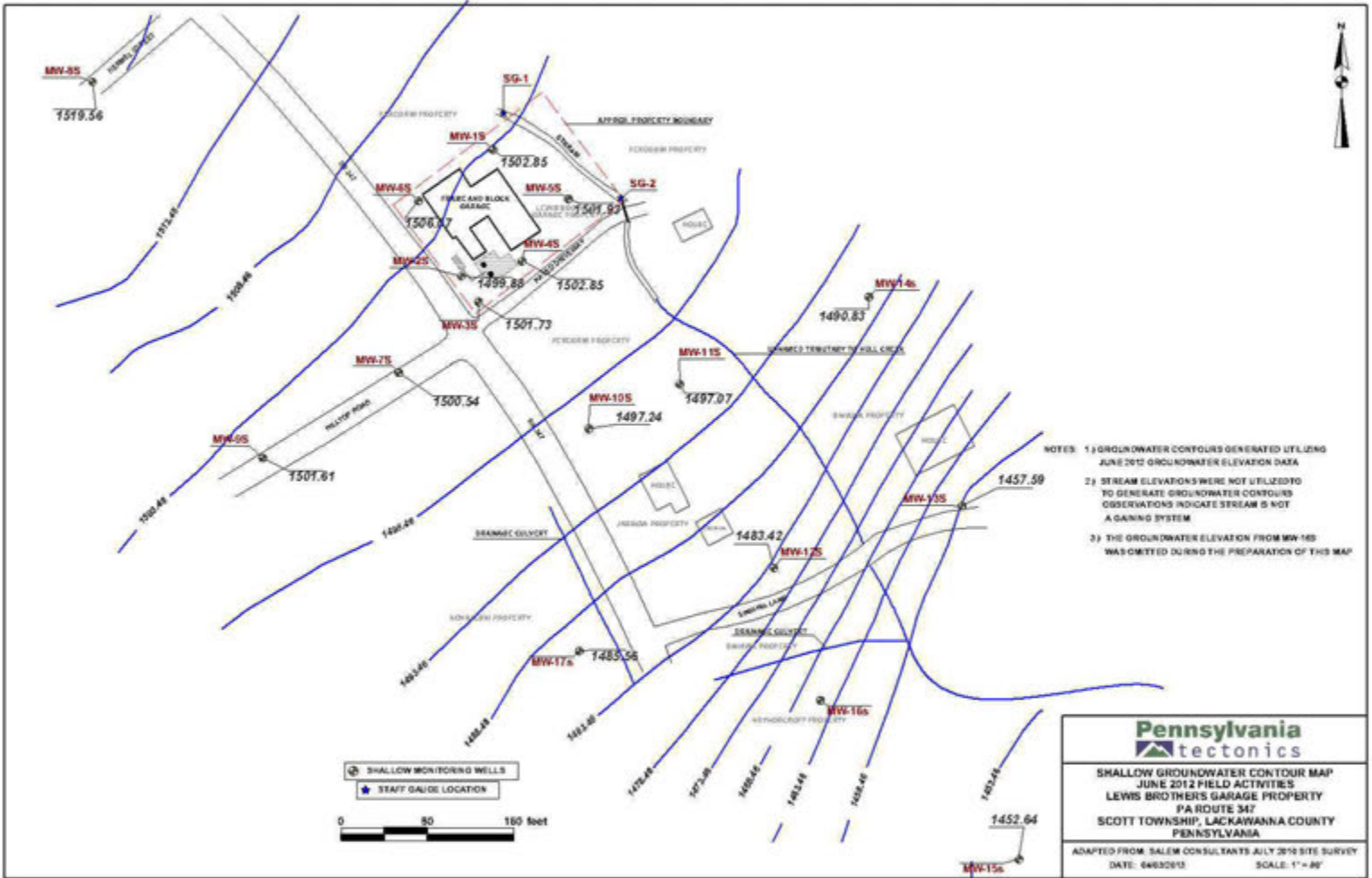


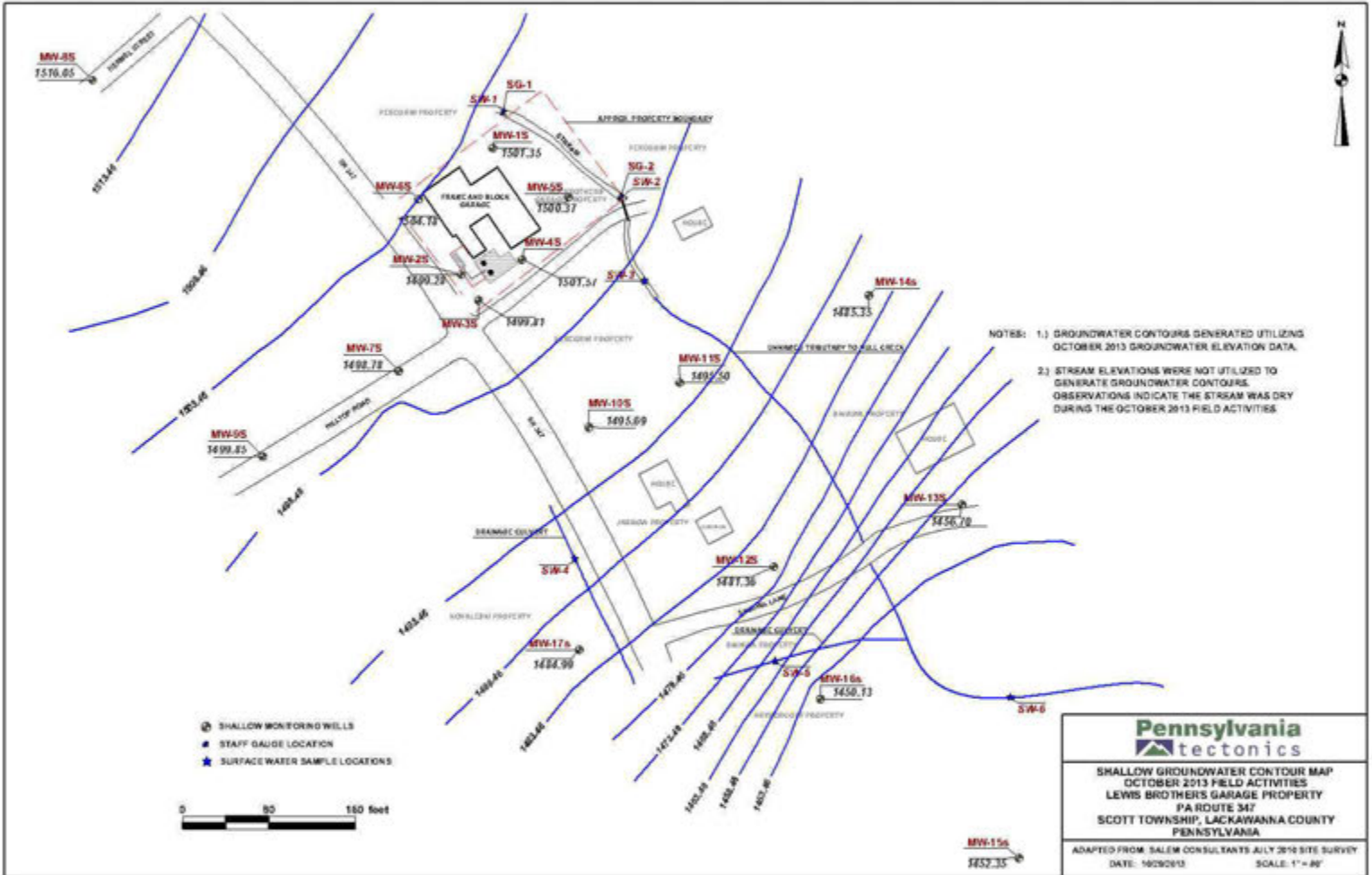


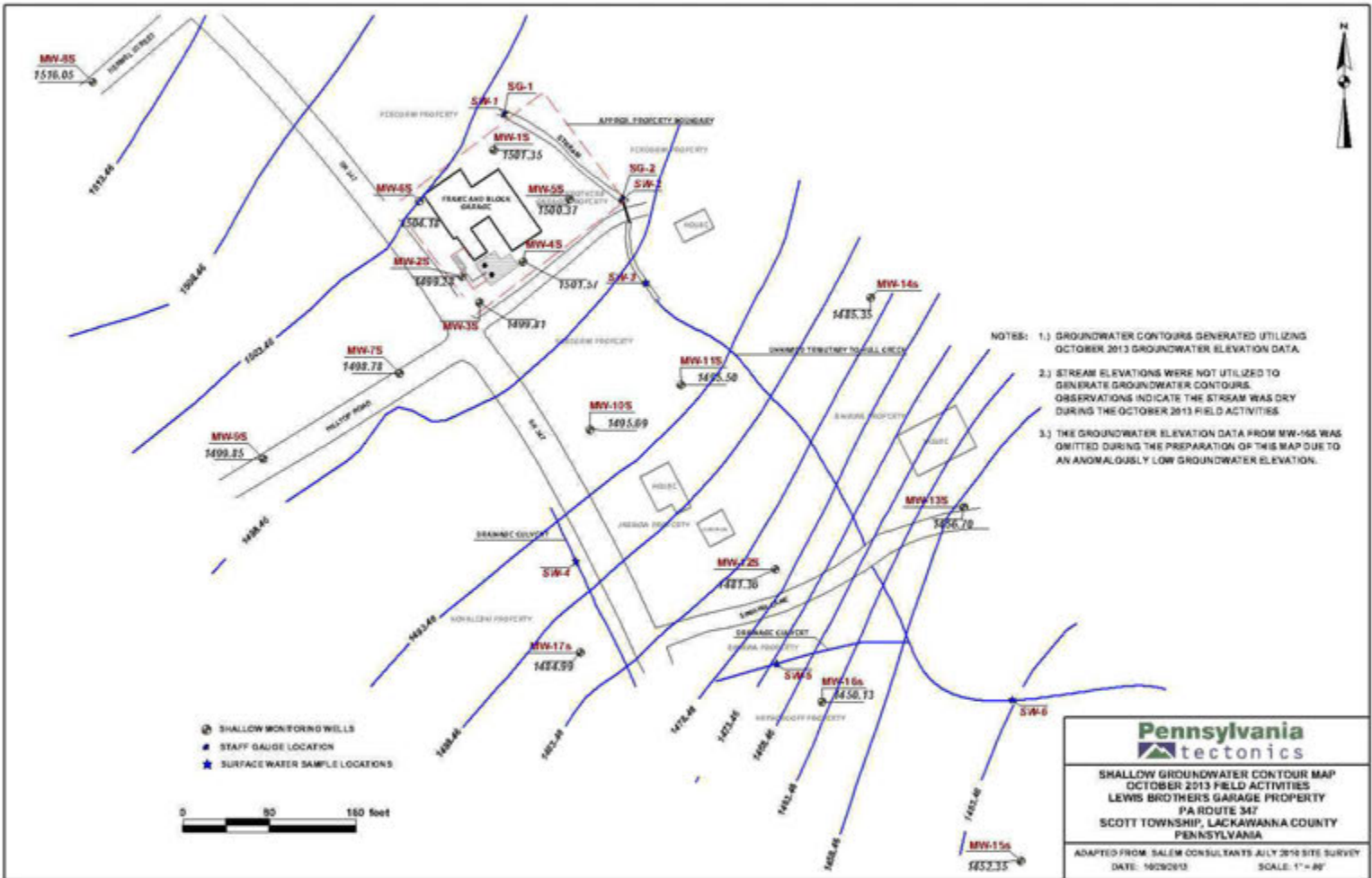




NOTES: 1) GROUNDWATER CONTOURS GENERATED UTILIZING JUNE 2012 GROUNDWATER ELEVATION DATA
 2) STREAM ELEVATIONS WERE NOT UTILIZED TO GENERATE GROUNDWATER CONTOURS OBSERVATIONS INDICATE STREAM IS NOT A GAINING SYSTEM







- NOTES:
- 1.) GROUNDWATER CONTOURS GENERATED UTILIZING OCTOBER 2013 GROUNDWATER ELEVATION DATA.
 - 2.) STREAM ELEVATIONS WERE NOT UTILIZED TO GENERATE GROUNDWATER CONTOURS. OBSERVATIONS INDICATE THE STREAM WAS DRY DURING THE OCTOBER 2013 FIELD ACTIVITIES.
 - 3.) THE GROUNDWATER ELEVATION DATA FROM MW-165 WAS OMITTED DURING THE PREPARATION OF THIS MAP DUE TO AN ANOMALOUSLY LOW GROUNDWATER ELEVATION.

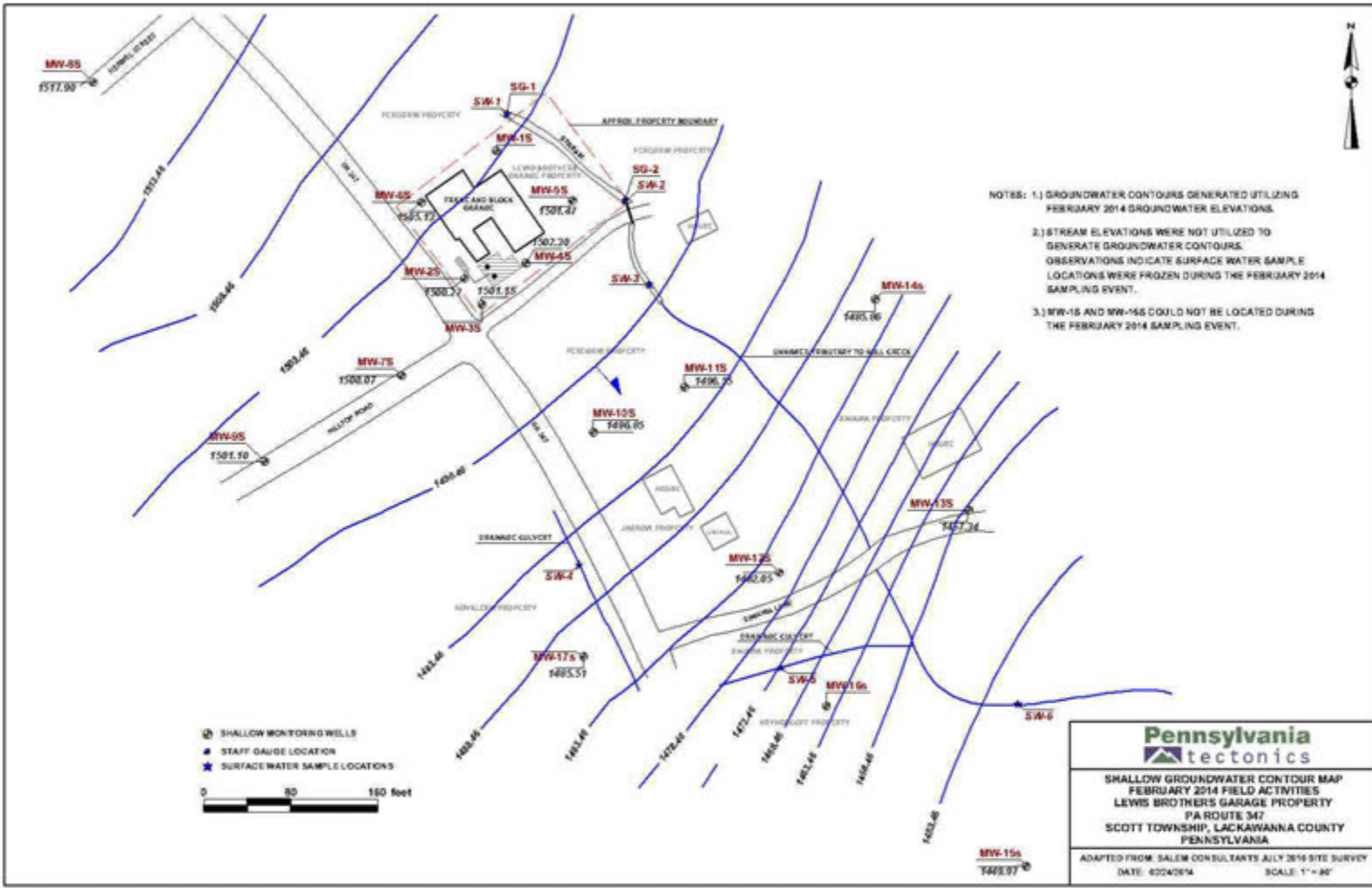
○ SHALLOW MONITORING WELLS
 ■ STAFF GAUGE LOCATION
 ★ SURFACE WATER SAMPLE LOCATIONS

0 50 150 feet

Pennsylvania
tectonics

SHALLOW GROUNDWATER CONTOUR MAP
 OCTOBER 2013 FIELD ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 PA ROUTE 347
 SCOTT TOWNSHIP, LACKAWANNA COUNTY
 PENNSYLVANIA

ADAPTED FROM: SALEM CONSULTANTS JULY 2010 SITE SURVEY
 DATE: 10/20/13 SCALE: 1" = 40'



- NOTES:
- 1.) GROUNDWATER CONTOURS GENERATED UTILIZING FEBRUARY 2014 GROUNDWATER ELEVATIONS.
 - 2.) STREAM ELEVATIONS WERE NOT UTILIZED TO GENERATE GROUNDWATER CONTOURS. OBSERVATIONS INDICATE SURFACE WATER SAMPLE LOCATIONS WERE FROZEN DURING THE FEBRUARY 2014 SAMPLING EVENT.
 - 3.) MW-15 AND MW-145 COULD NOT BE LOCATED DURING THE FEBRUARY 2014 SAMPLING EVENT.

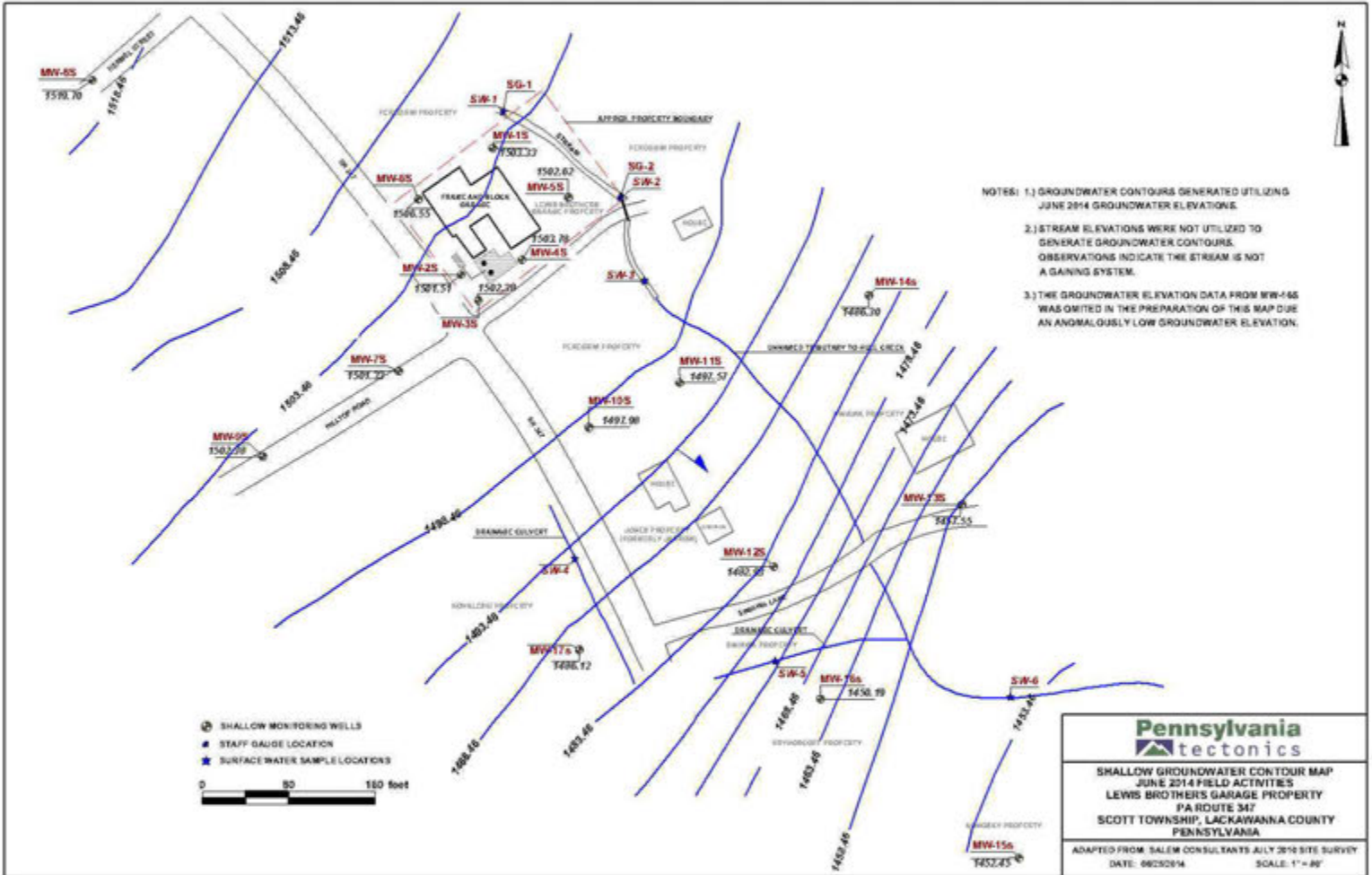
SHALLOW MONITORING WELLS
 STAFF GAUGE LOCATION
 SURFACE WATER SAMPLE LOCATIONS

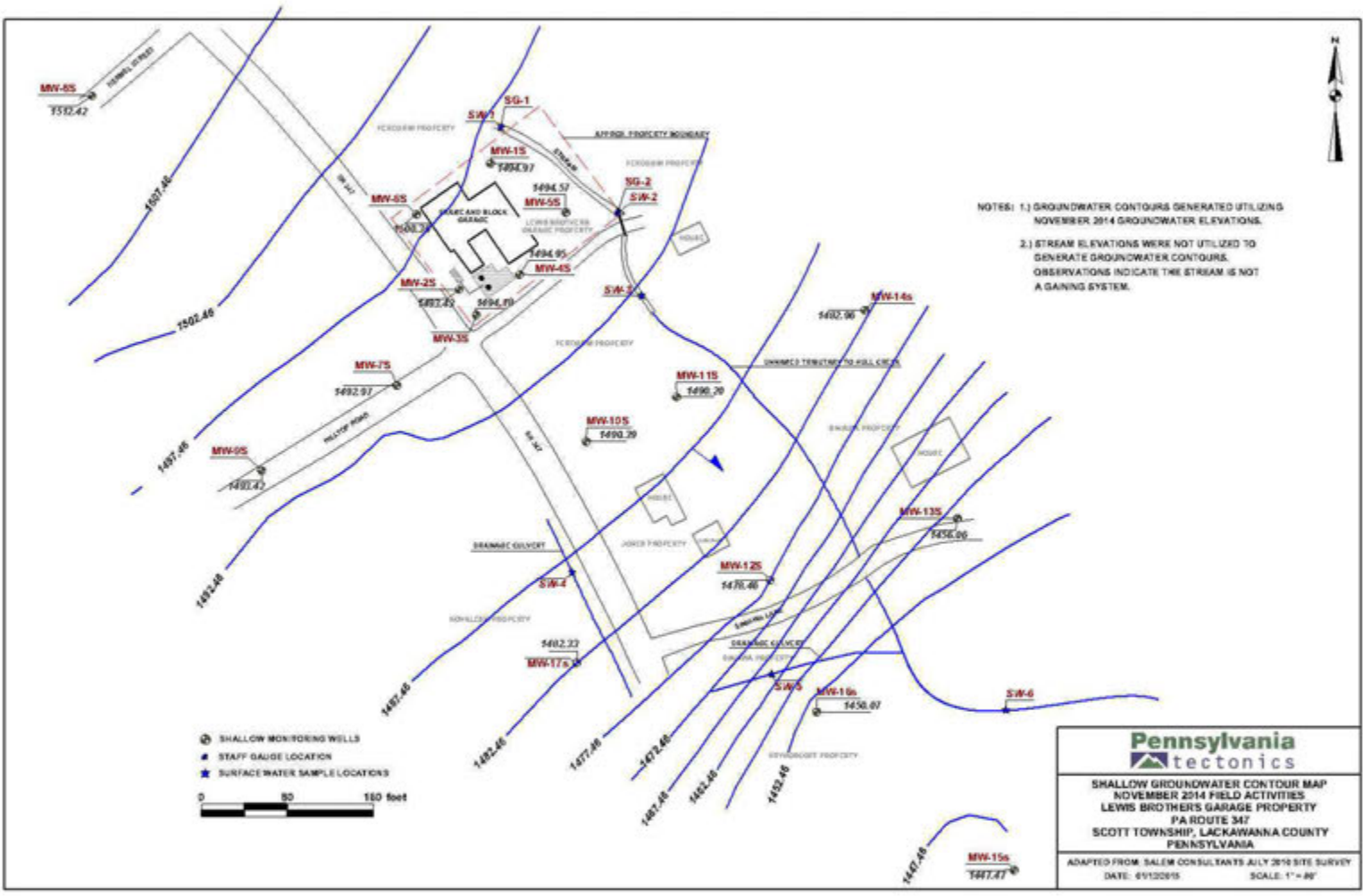
0 80 160 feet

Pennsylvania
 tectonics

SHALLOW GROUNDWATER CONTOUR MAP
 FEBRUARY 2014 FIELD ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 PA ROUTE 342
 SCOTT TOWNSHIP, LACKAWANNA COUNTY
 PENNSYLVANIA

ADAPTED FROM: SALEM CONSULTANTS JULY 2010 SITE SURVEY
 DATE: 02/24/2014 SCALE: 1" = 80'





NOTES: 1.) GROUNDWATER CONTOURS GENERATED UTILIZING NOVEMBER 2014 GROUNDWATER ELEVATIONS.
 2.) STREAM ELEVATIONS WERE NOT UTILIZED TO GENERATE GROUNDWATER CONTOURS. OBSERVATIONS INDICATE THE STREAM IS NOT A GAINING SYSTEM.

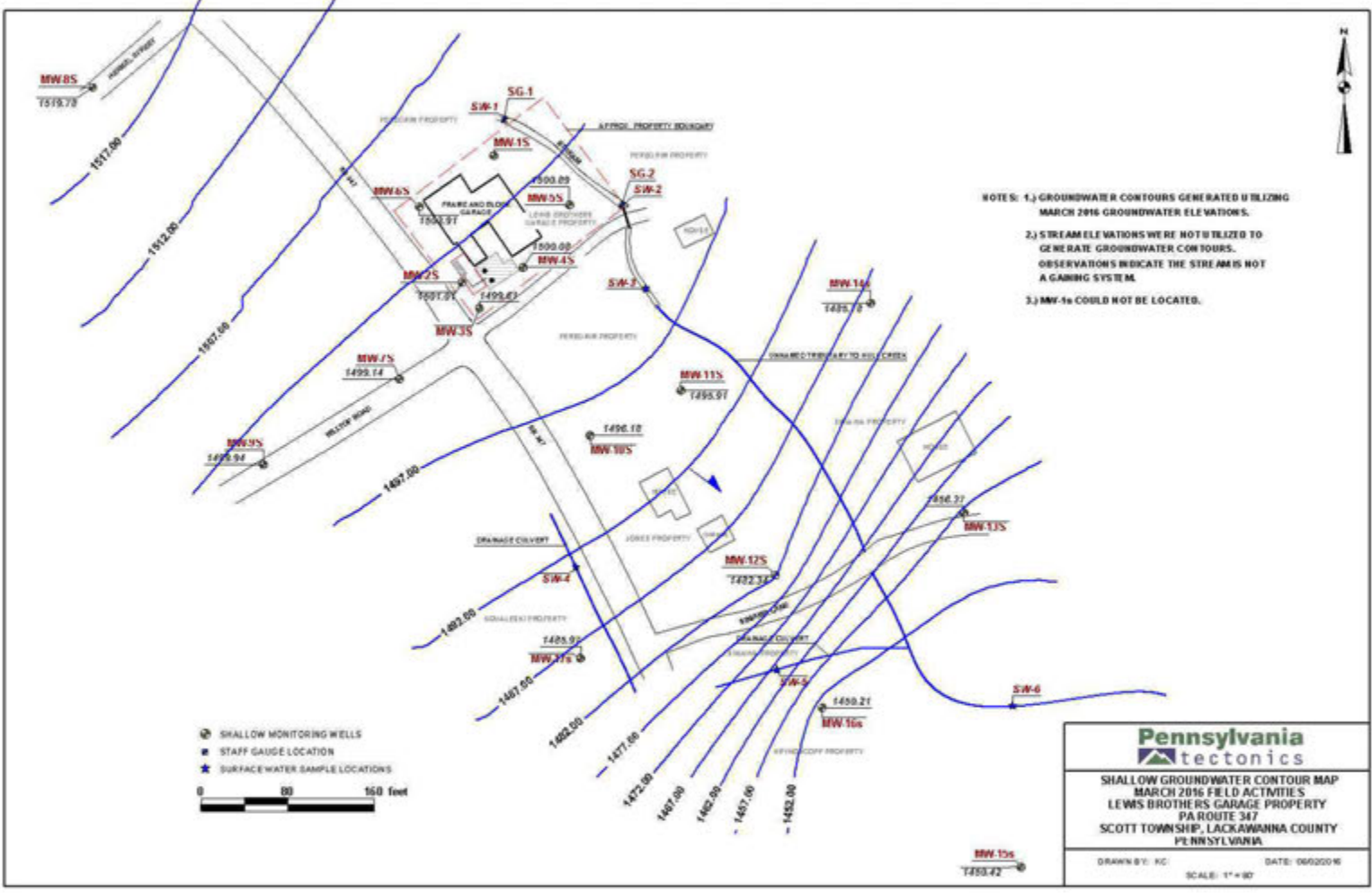
○ SHALLOW MONITORING WELLS
 ■ STAFF GAUGE LOCATION
 * SURFACE WATER SAMPLE LOCATIONS

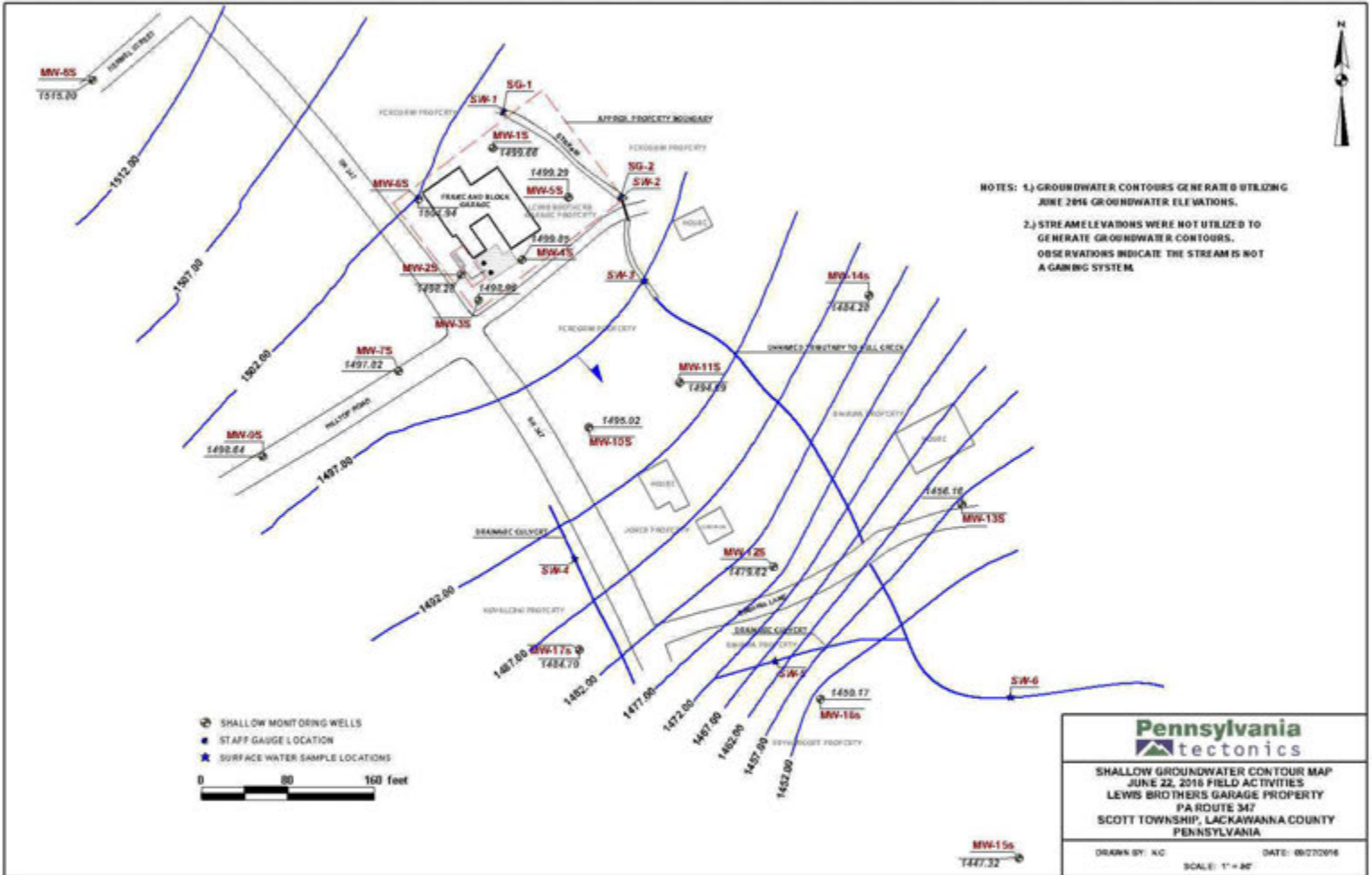
0 80 160 feet

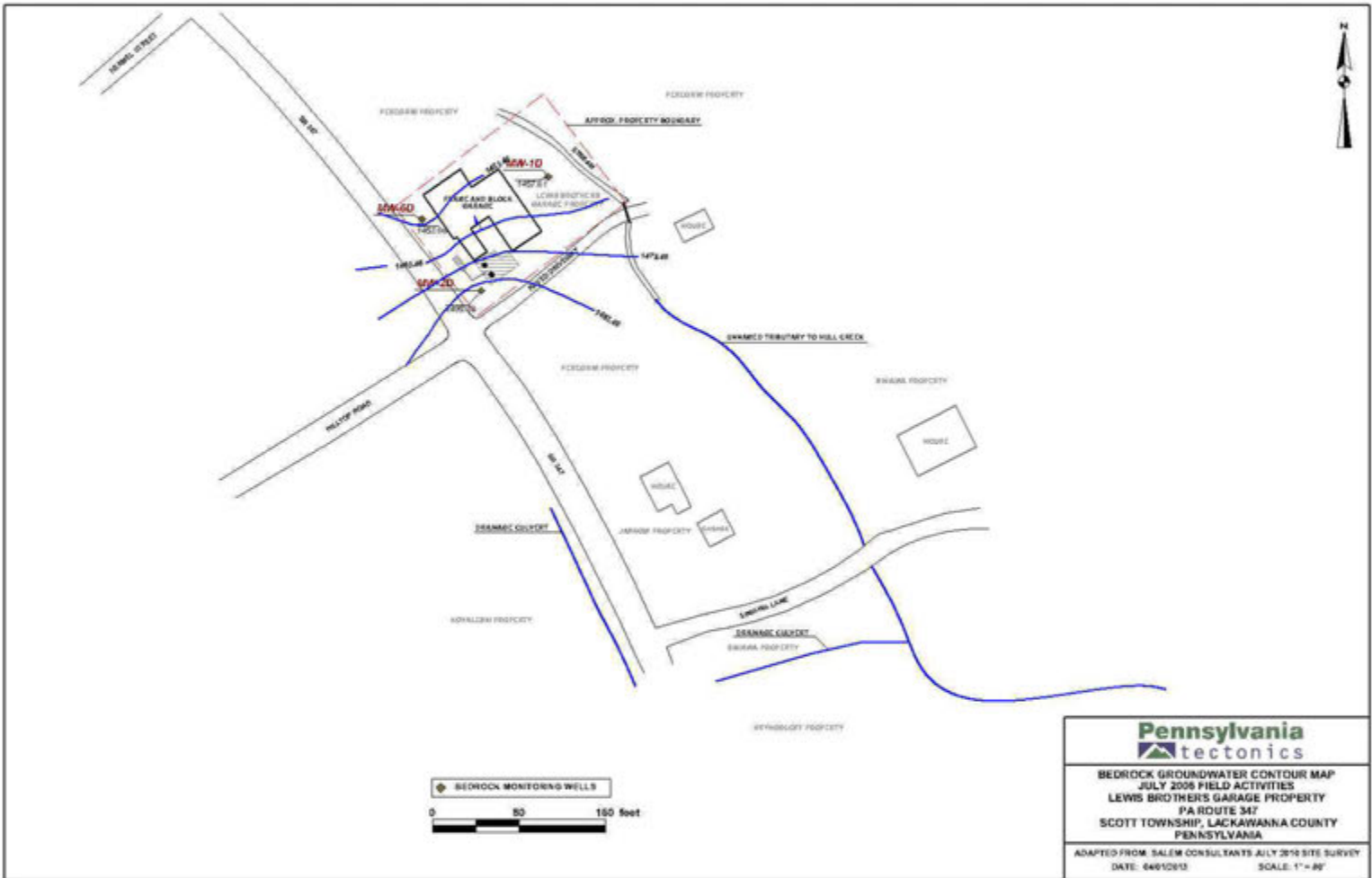
Pennsylvania tectonics

SHALLOW GROUNDWATER CONTOUR MAP
 NOVEMBER 2014 FIELD ACTIVITIES
 LEWIS BROTHERS GARAGE PROPERTY
 PA ROUTE 347
 SCOTT TOWNSHIP, LACKAWANNA COUNTY
 PENNSYLVANIA

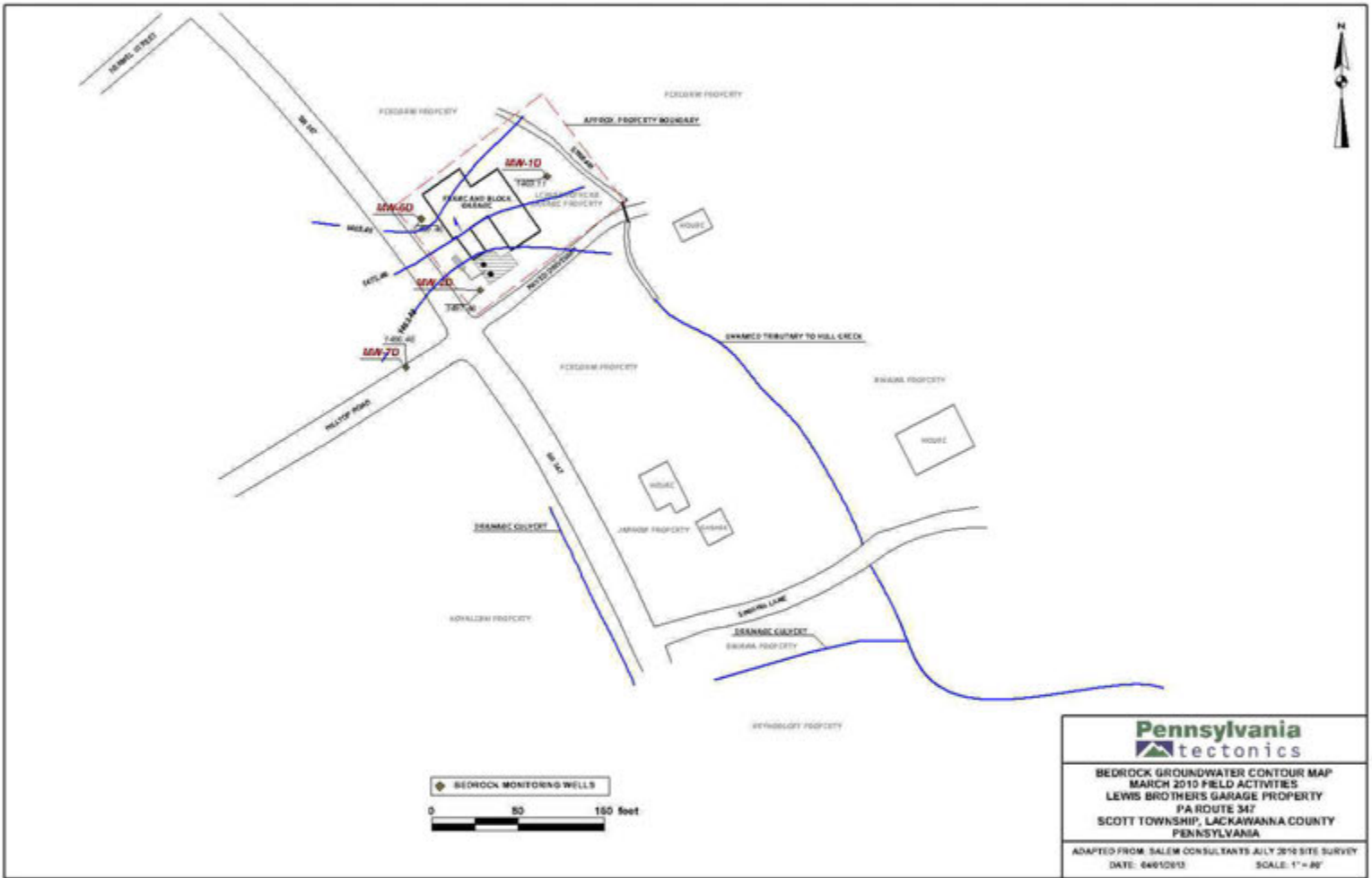
ADAPTED FROM SALEM CONSULTANTS JULY 2010 SITE SURVEY
 DATE: 01/20/15 SCALE: 1" = 80'



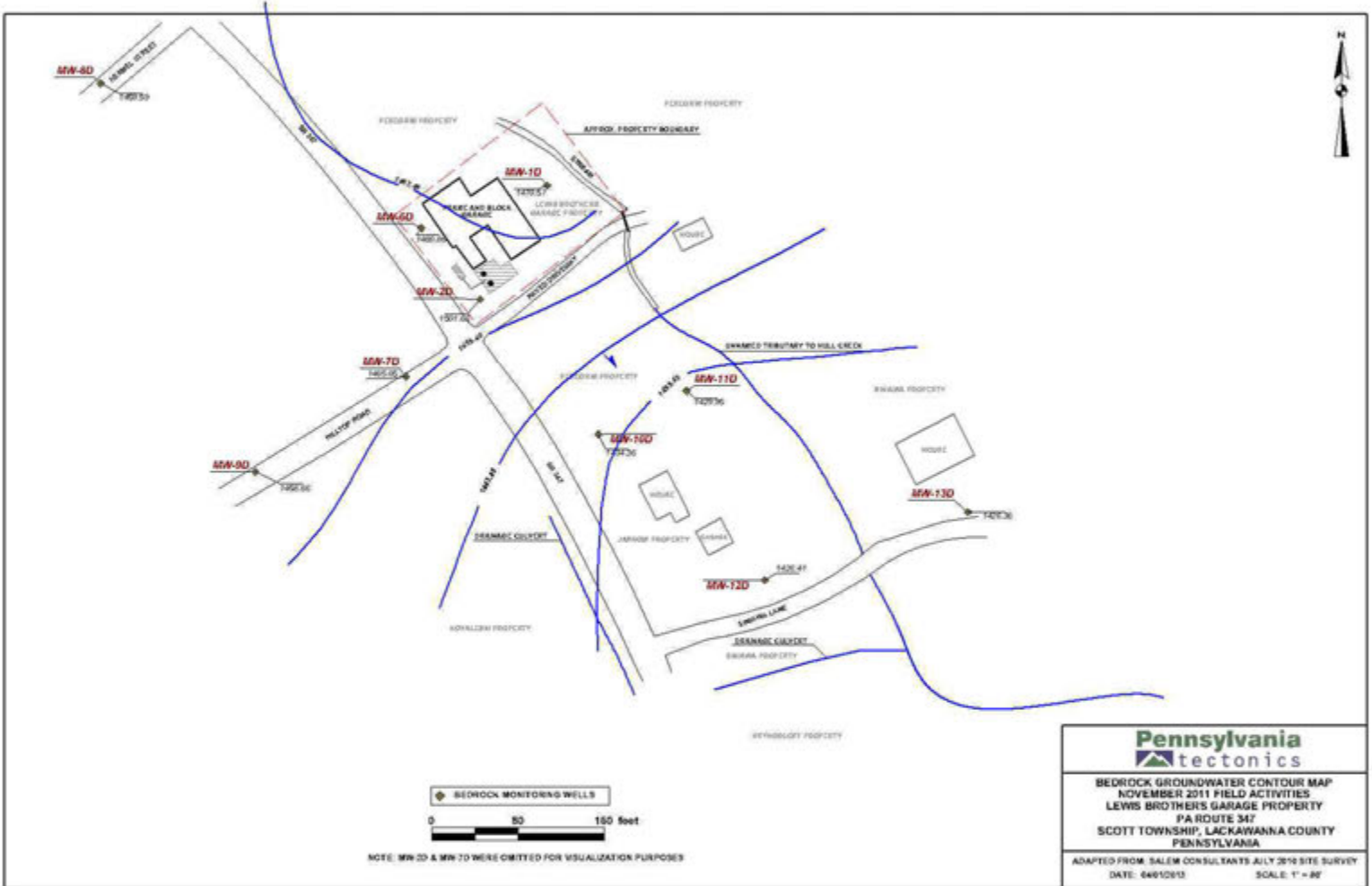


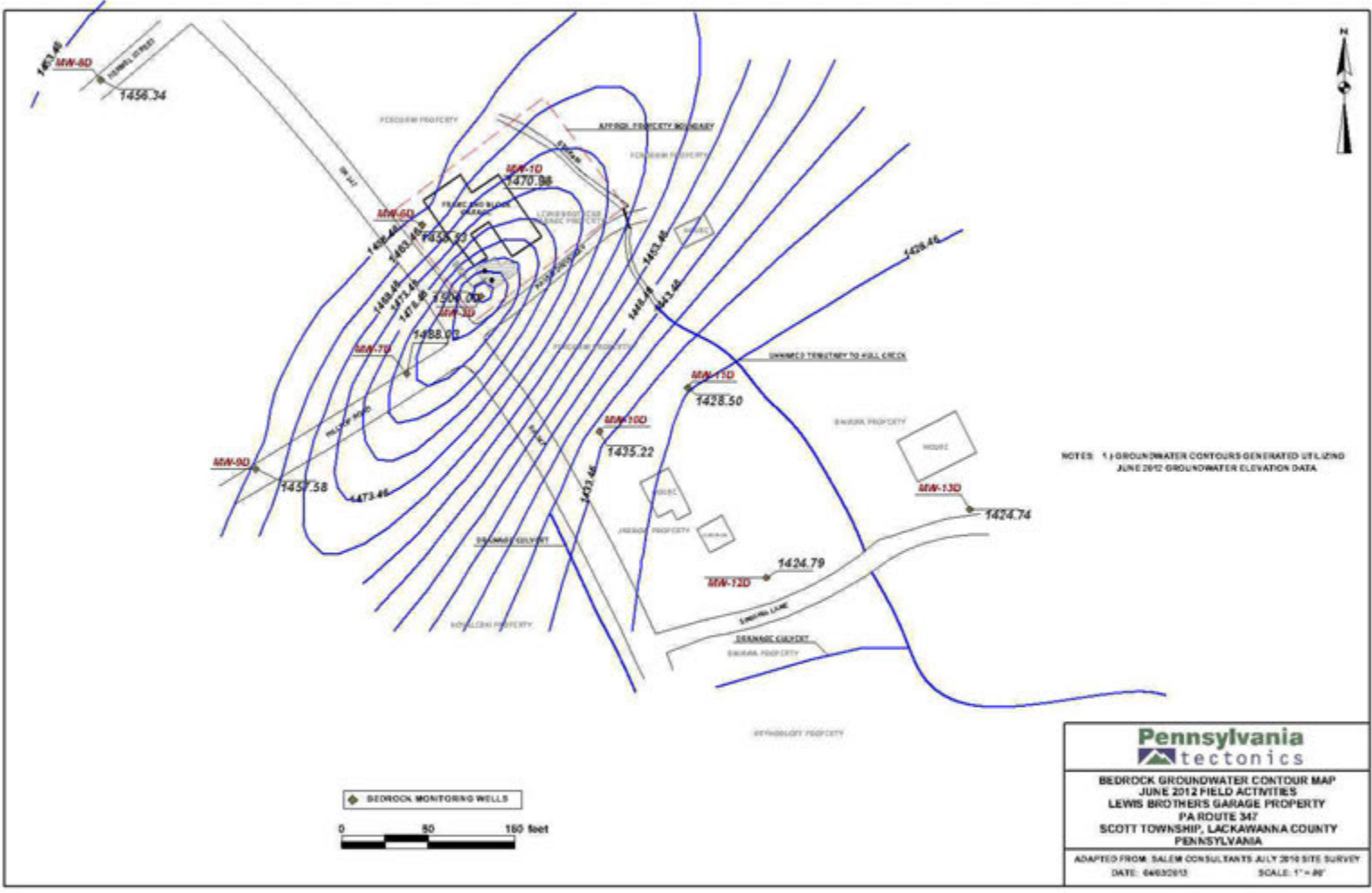


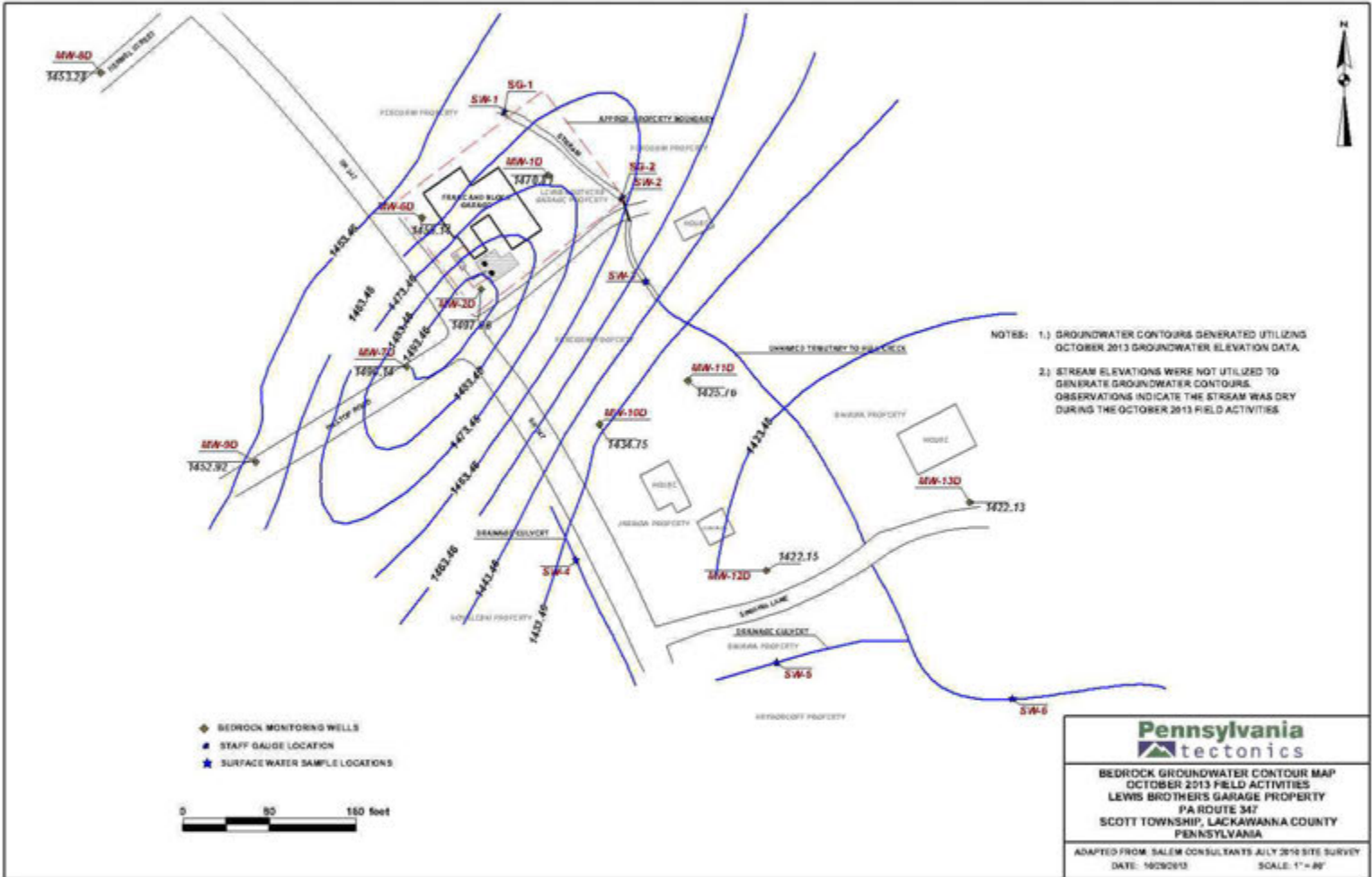
BEDROCK GROUNDWATER CONTOUR MAP JULY 2008 FIELD ACTIVITIES LEWIS BROTHERS GARAGE PROPERTY PA ROUTE 347 SCOTT TOWNSHIP, LACKAWANNA COUNTY PENNSYLVANIA	
ADAPTED FROM SALEM CONSULTANTS JULY 2010 SITE SURVEY DATE: 04/10/13	SCALE: 1" = 80'

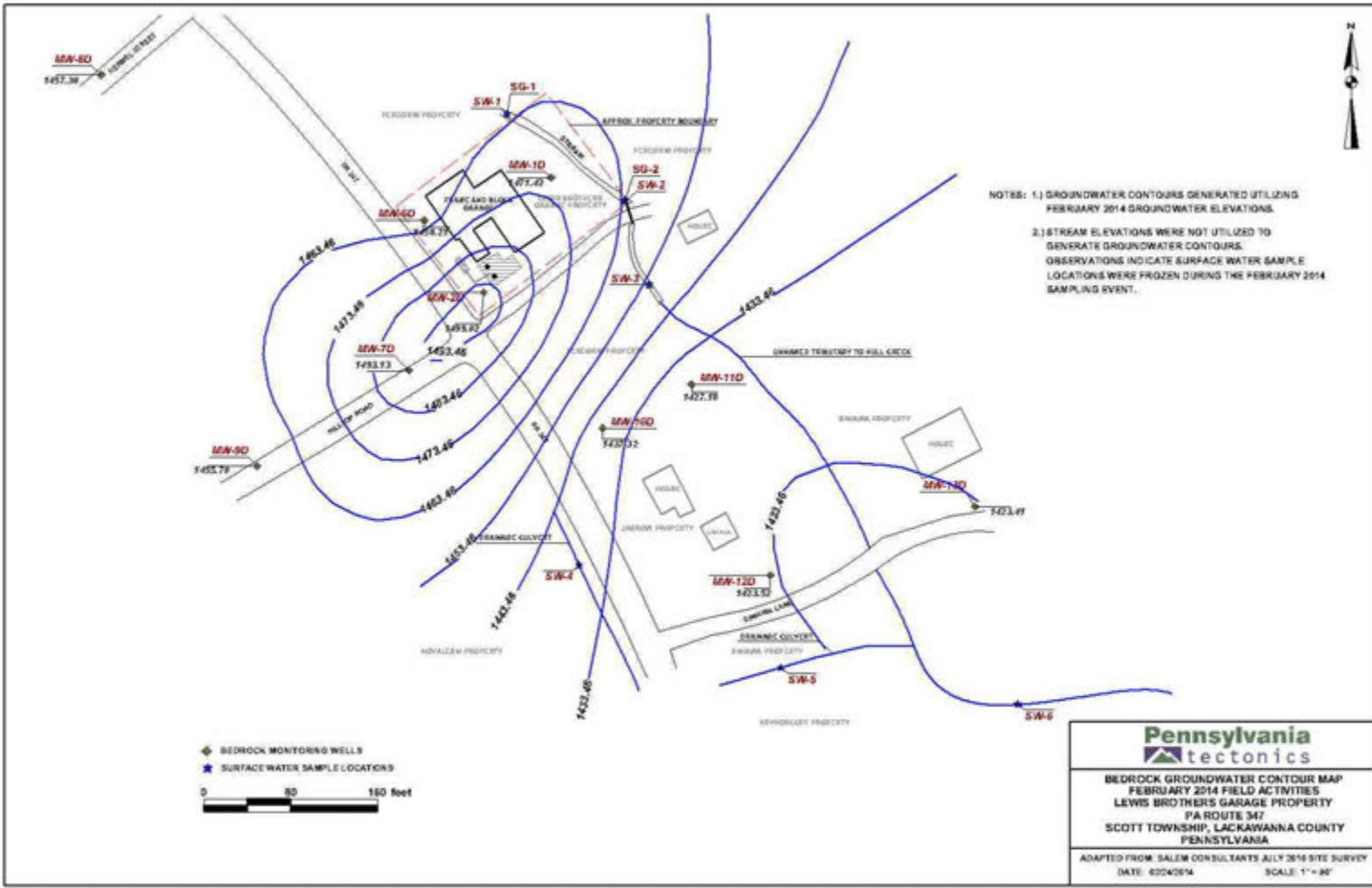


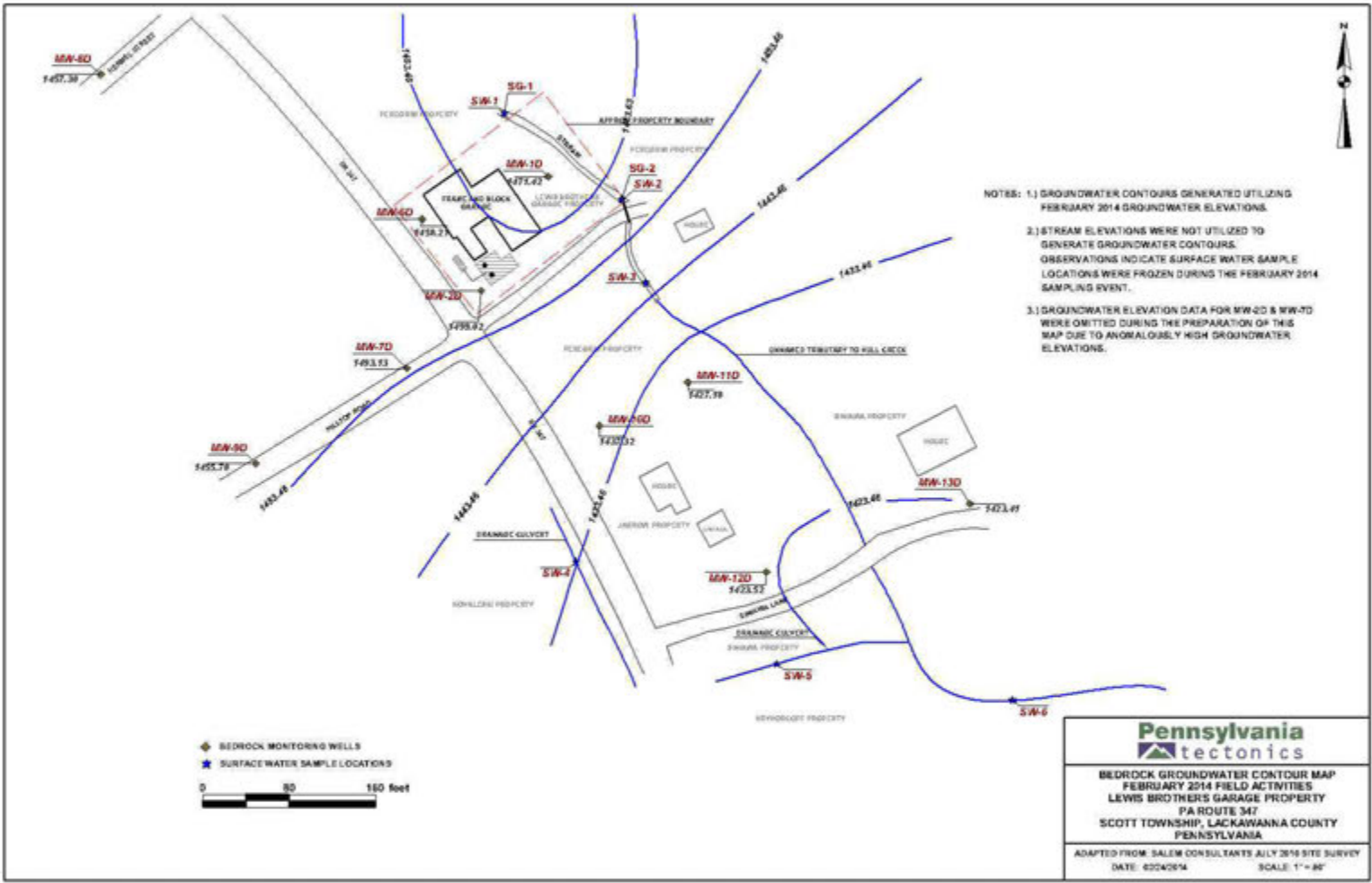
BEDROCK GROUNDWATER CONTOUR MAP MARCH 2010 FIELD ACTIVITIES LEWIS BROTHERS GARAGE PROPERTY PA ROUTE 347 SCOTT TOWNSHIP, LACKAWANNA COUNTY PENNSYLVANIA	
ADAPTED FROM SALEM CONSULTANTS JULY 2010 SITE SURVEY DATE: 04/02/13	SCALE: 1" = 80'









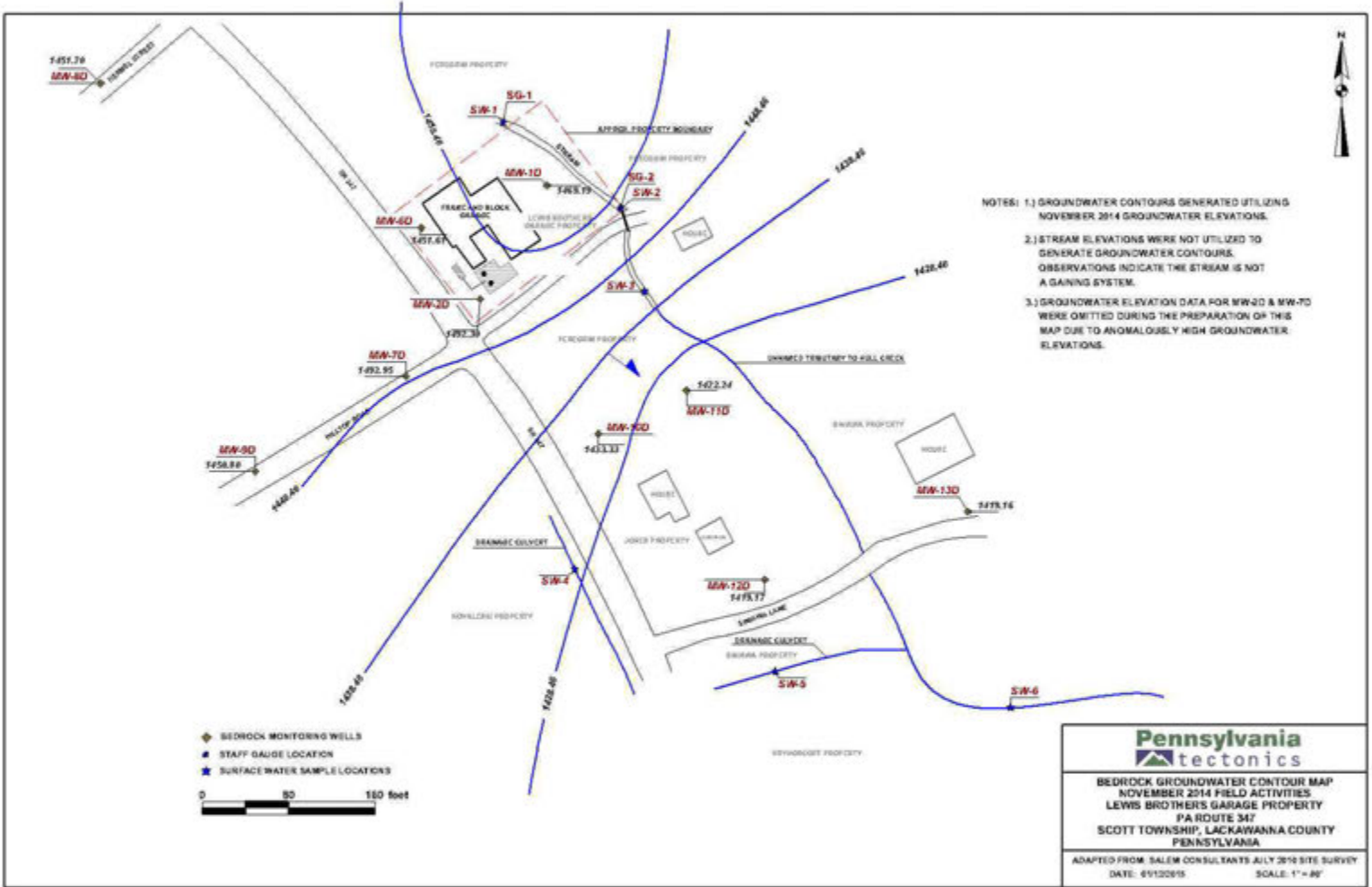


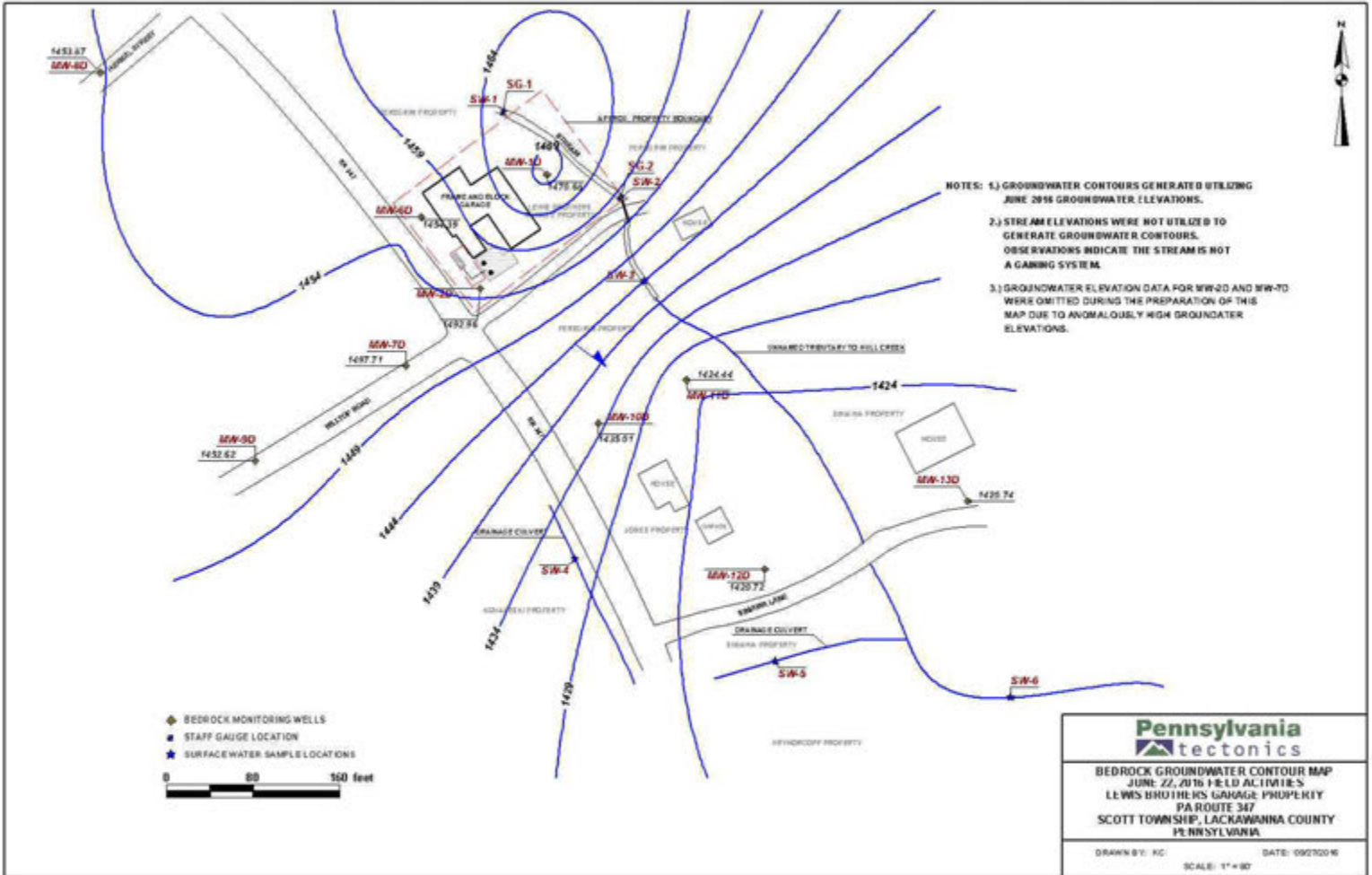
- NOTES:
- 1.) GROUNDWATER CONTOURS GENERATED UTILIZING FEBRUARY 2014 GROUNDWATER ELEVATIONS.
 - 2.) STREAM ELEVATIONS WERE NOT UTILIZED TO GENERATE GROUNDWATER CONTOURS. OBSERVATIONS INDICATE SURFACE WATER SAMPLE LOCATIONS WERE FROZEN DURING THE FEBRUARY 2014 SAMPLING EVENT.
 - 3.) GROUNDWATER ELEVATION DATA FOR MW-20 & MW-70 WERE OMITTED DURING THE PREPARATION OF THIS MAP DUE TO ANOMALOUSLY HIGH GROUNDWATER ELEVATIONS.

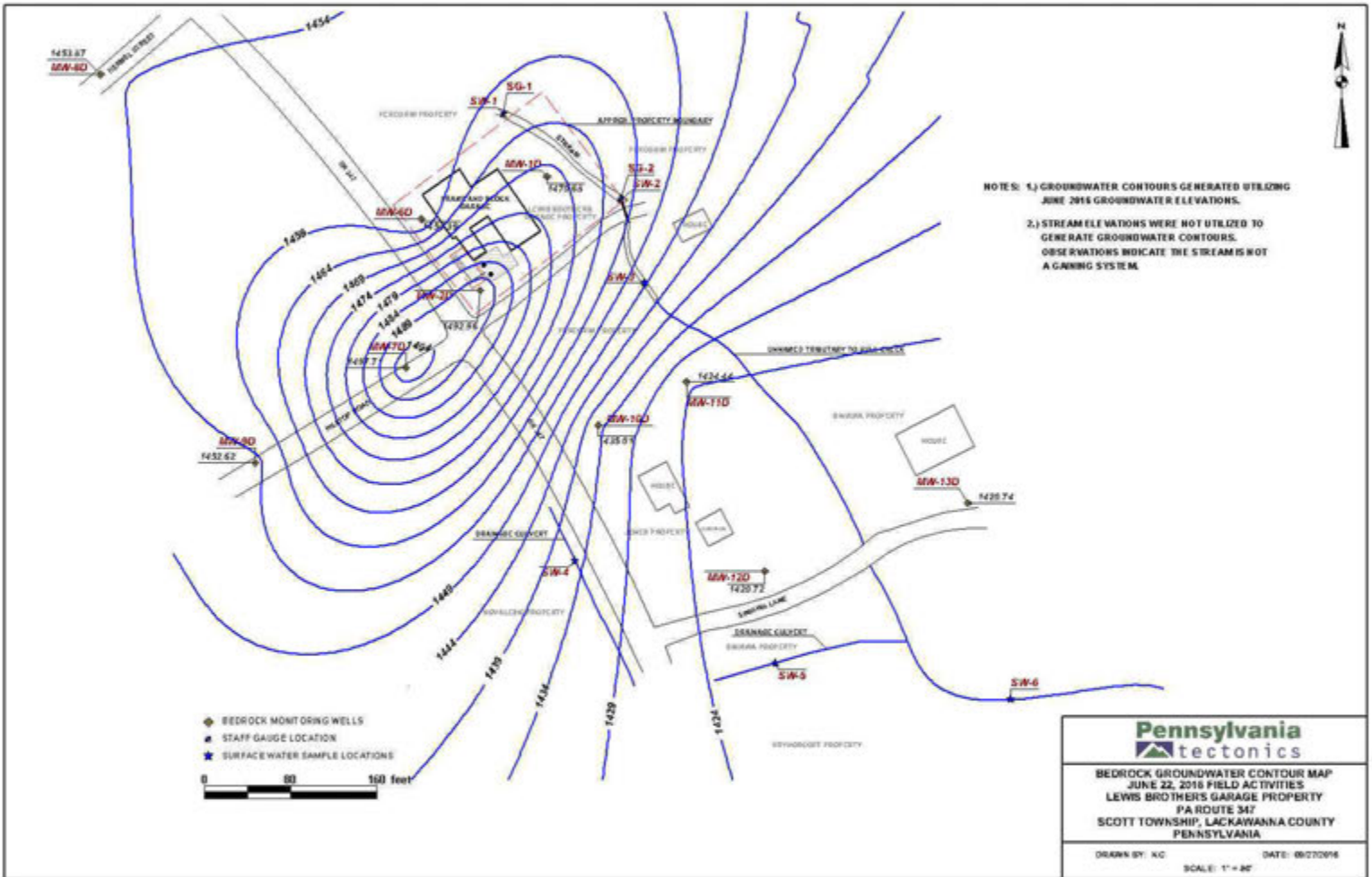
Pennsylvania
tectonics

BEDROCK GROUNDWATER CONTOUR MAP
FEBRUARY 2014 FIELD ACTIVITIES
LEWIS BROTHERS GARAGE PROPERTY
PA ROUTE 342
SCOTT TOWNSHIP, LACKAWANNA COUNTY
PENNSYLVANIA

ADAPTED FROM SALEM CONSULTANTS JULY 2016 SITE SURVEY
DATE: 4/24/2014 SCALE: 1"=80'







APPENDIX V

Aquifer Testing Documentation

APPENDIX V-1

Slug Test Data Sheets



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-2S A

Test Well: MW-2S

Test Conducted by: Kevin Cucura

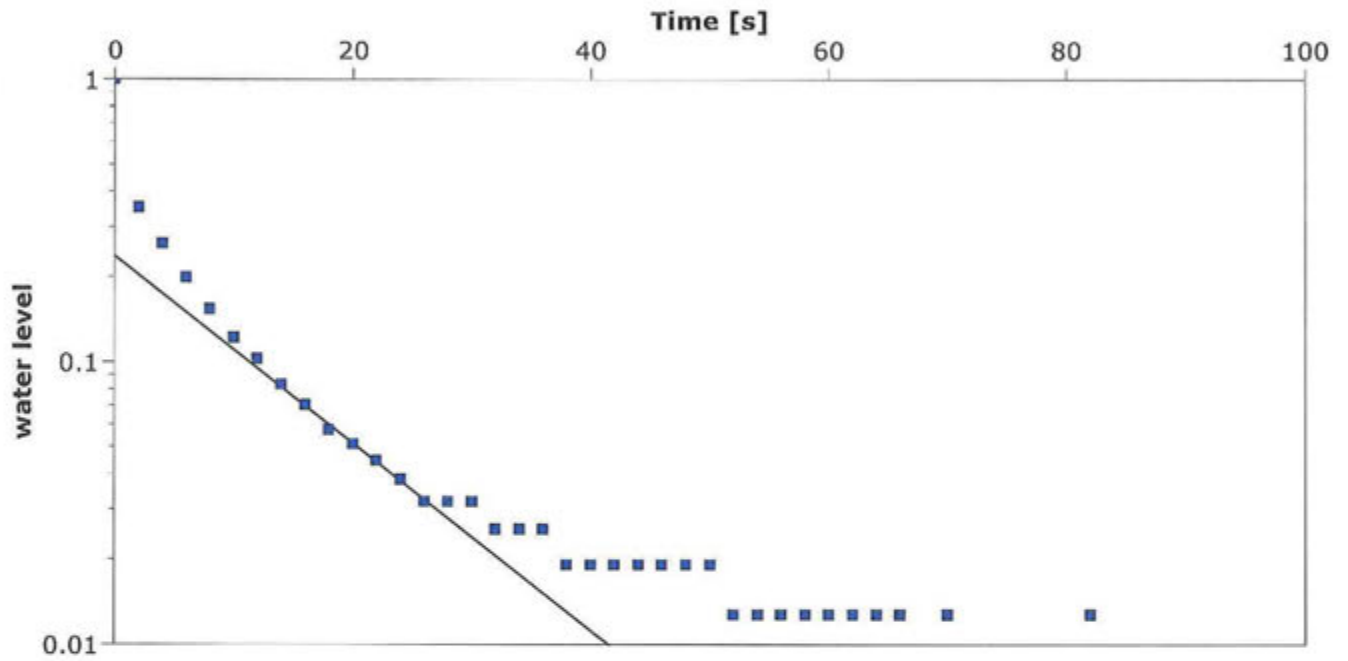
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-2s First Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 5.39 ft



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-2S	8.16×10^{-3}



Pennsylvania Tectonics, Inc.
 826 Main Street
 Peckville, PA
 570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-2S B

Test Well: MW-2S

Test Conducted by:

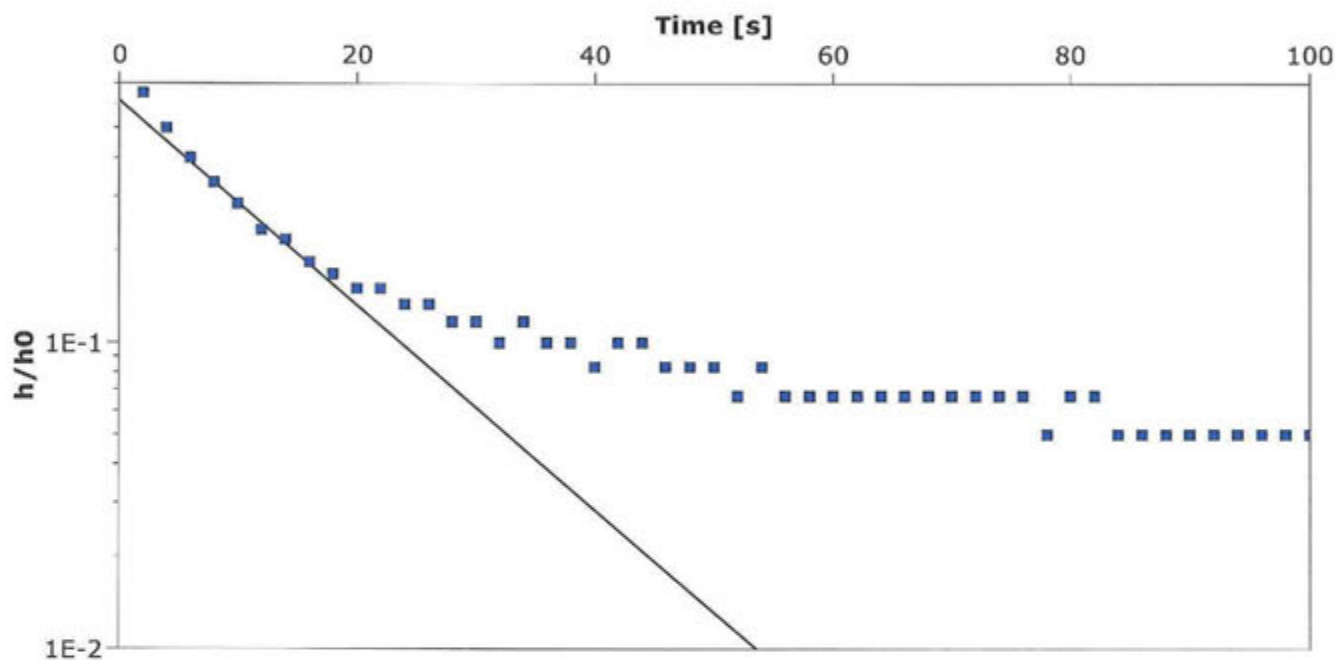
Test Date: 1/28/2011

Analysis Performed by: Kevin Cucura

MW-2S Second Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-2S	8.23×10^{-3}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-2S C

Test Well: MW-2S

Test Conducted by: Kevin Cucura

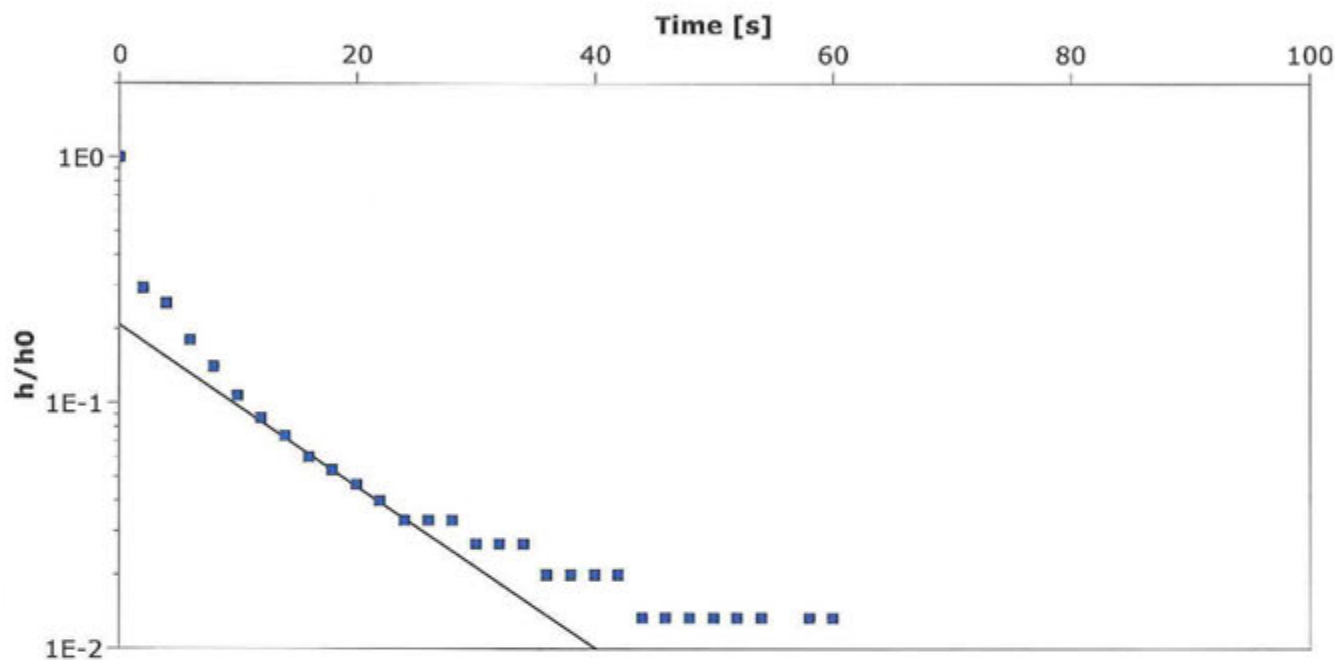
Test Date: 1/28/2011

Analysis Performed by: Kevin Cucura

MW-2S Third Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-2S	8.09×10^{-3}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-3S A

Test Well: MW-3S

Test Conducted by: Kevin Cucura

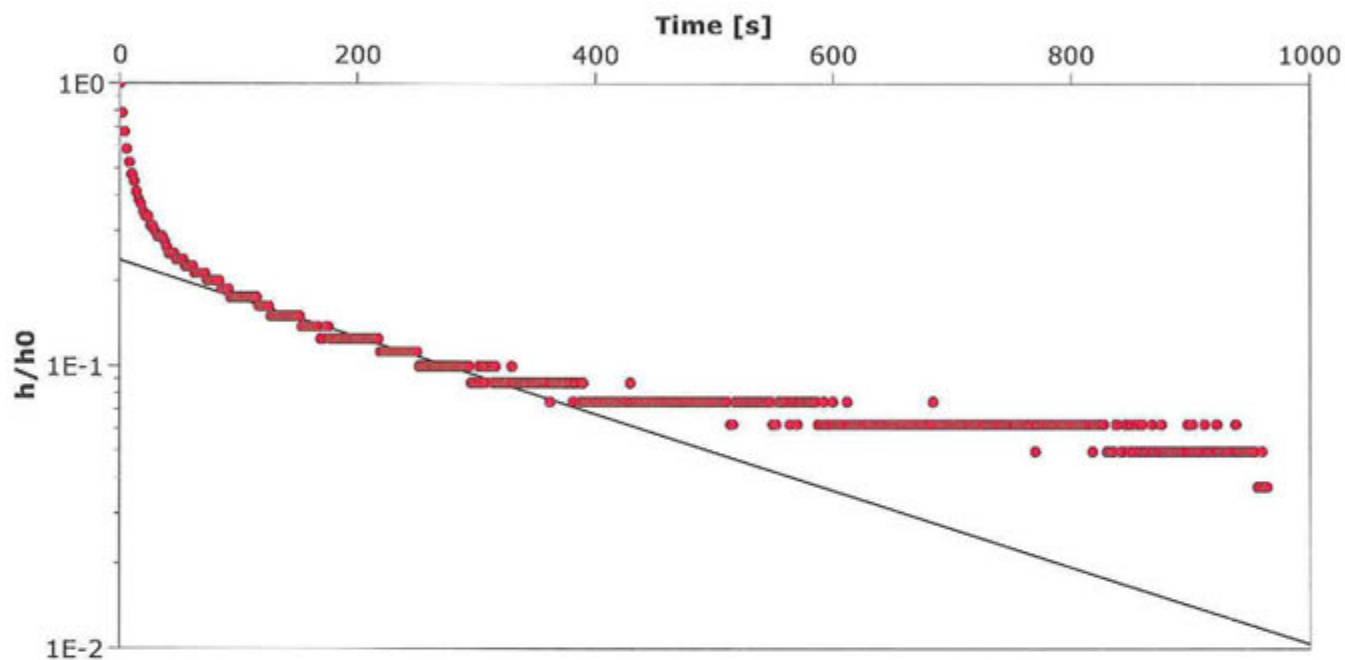
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-3S First Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 14.61 ft



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-3S	1.68×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-3S B

Test Well: MW-3S

Test Conducted by: Kevin Cucura

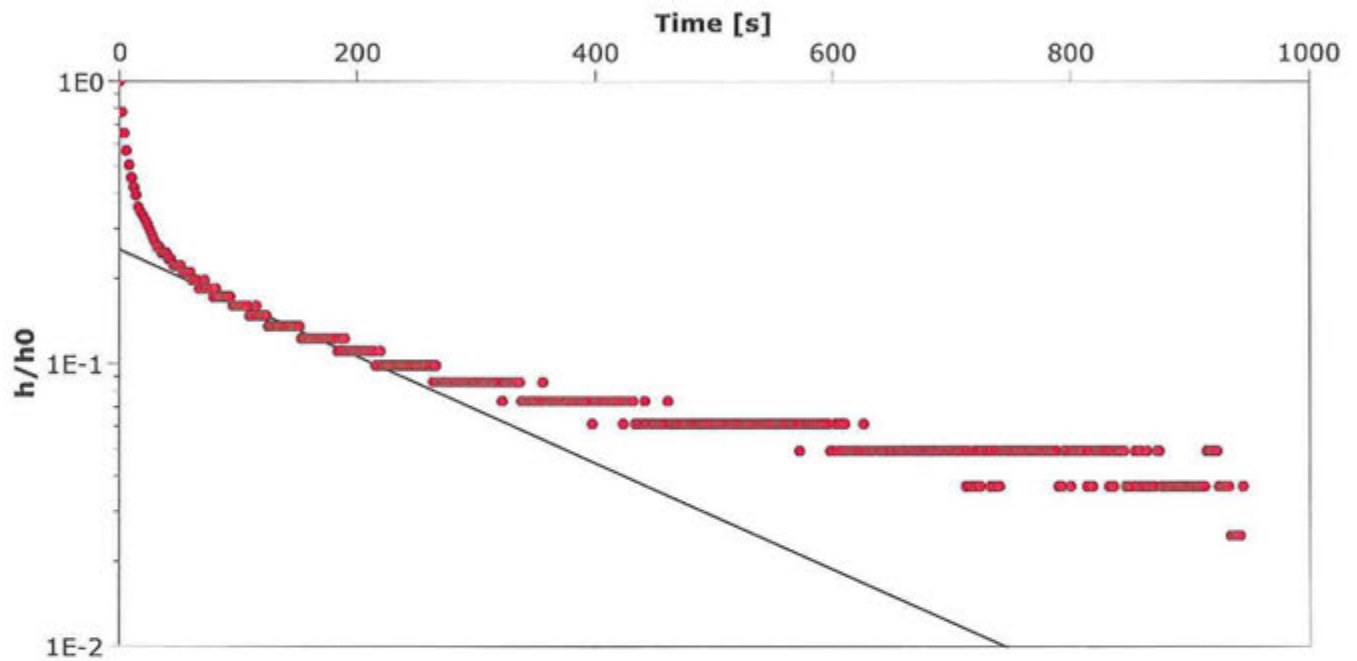
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-3S Second Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 14.61 ft



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-3S	2.34×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-3S C

Test Well: MW-3S

Test Conducted by: Kevin Cucura

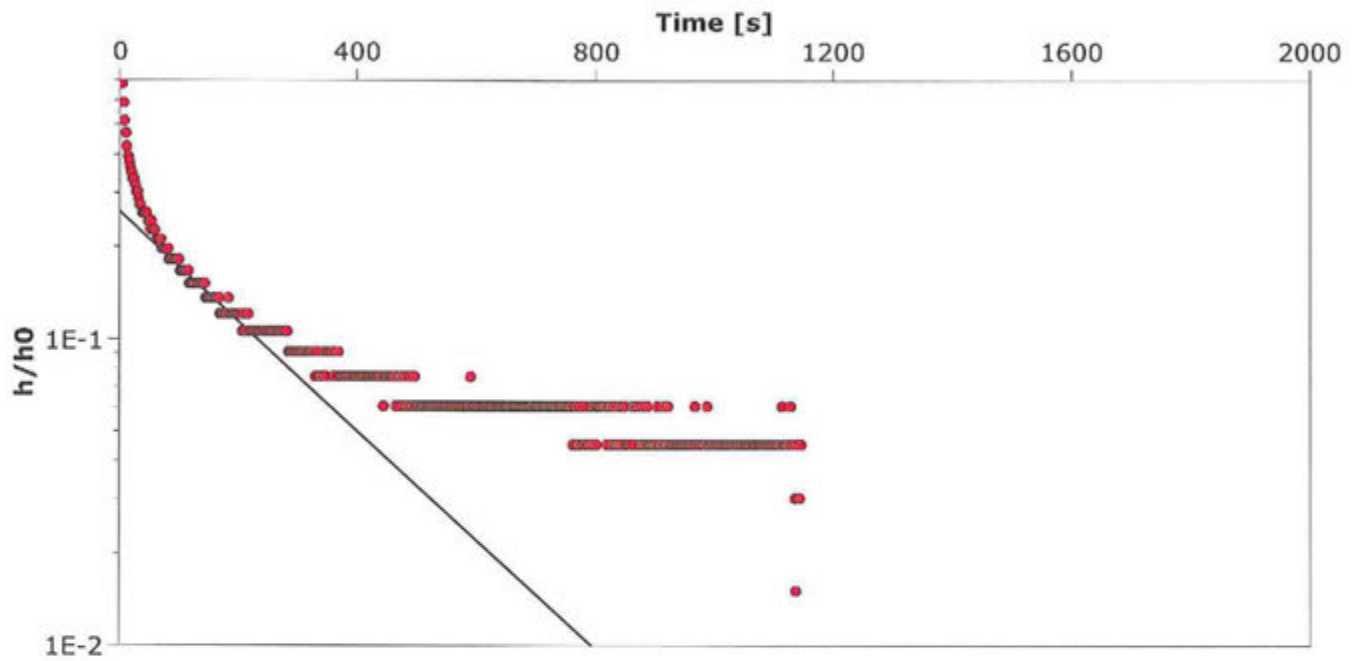
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-3S Third Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 175.32 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-3S	2.21×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-4S A

Test Well: MW-4s

Test Conducted by: Kevin Cucura

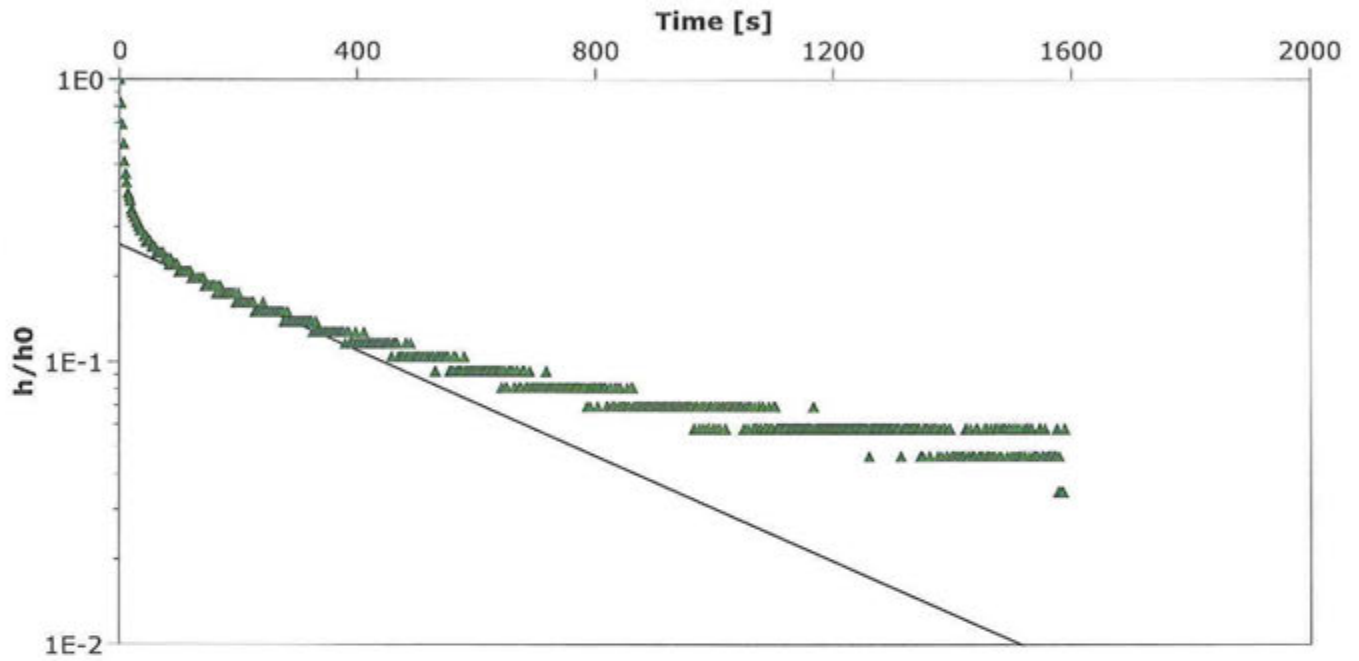
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-4 First Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 16.94 ft



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-4s	1.04×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-4S B

Test Well: MW-4s

Test Conducted by: Kevin Cucura

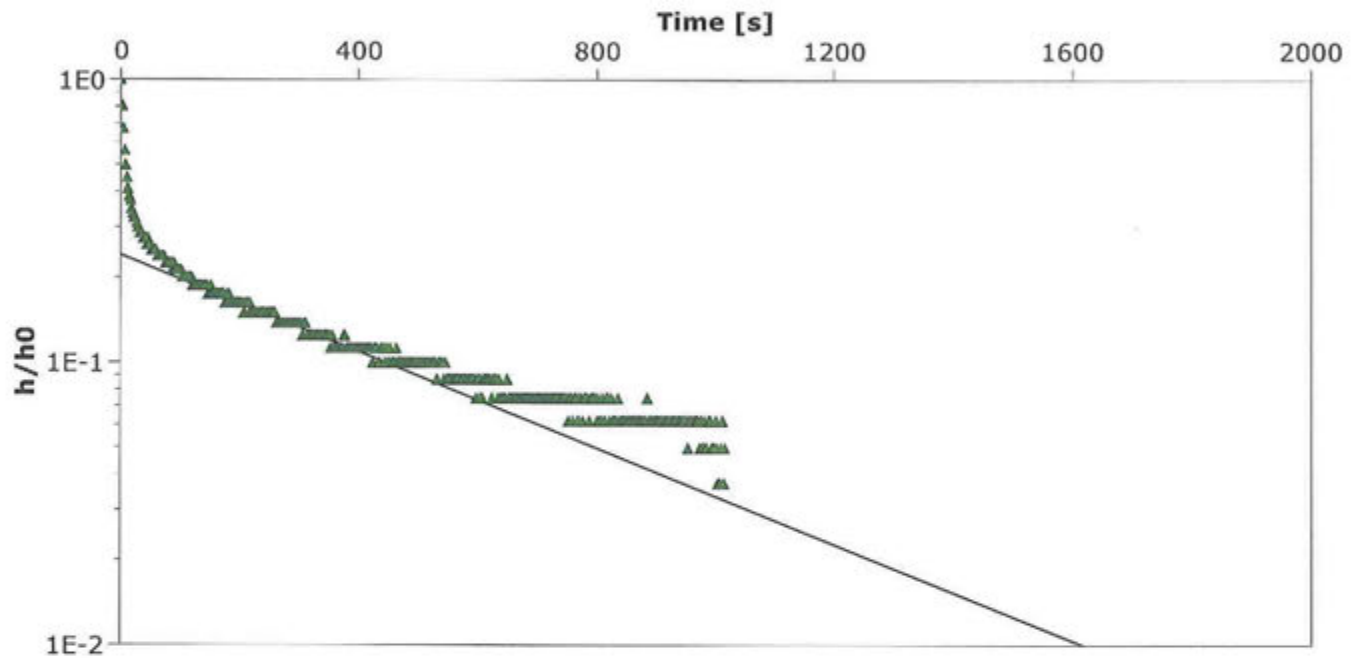
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-4S Second Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 203.28 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-4s	9.48×10^{-5}



Pennsylvania Tectonics, Inc.
 826 Main Street
 Peckville, PA
 570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-4S C

Test Well: MW-4s

Test Conducted by: Kevin Cucura

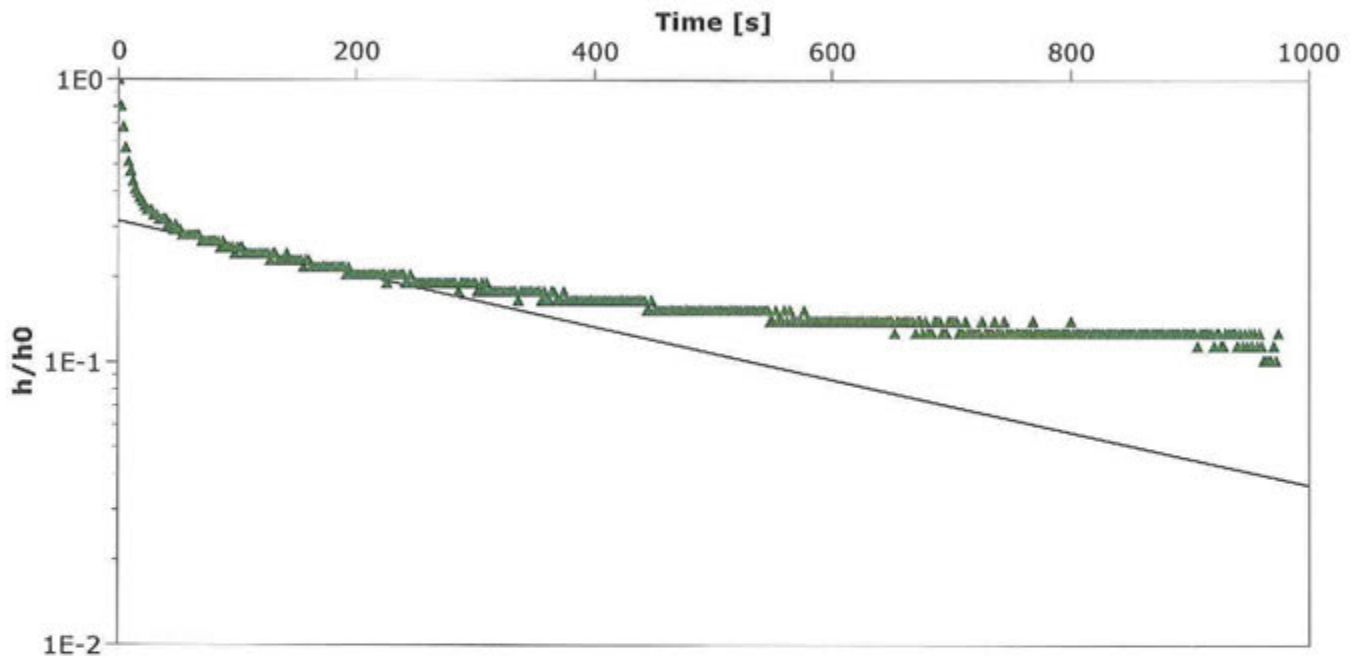
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-4S Third Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 203.28 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-4s	1.04×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-5S A

Test Well: MW-5S

Test Conducted by: Kevin Cucura

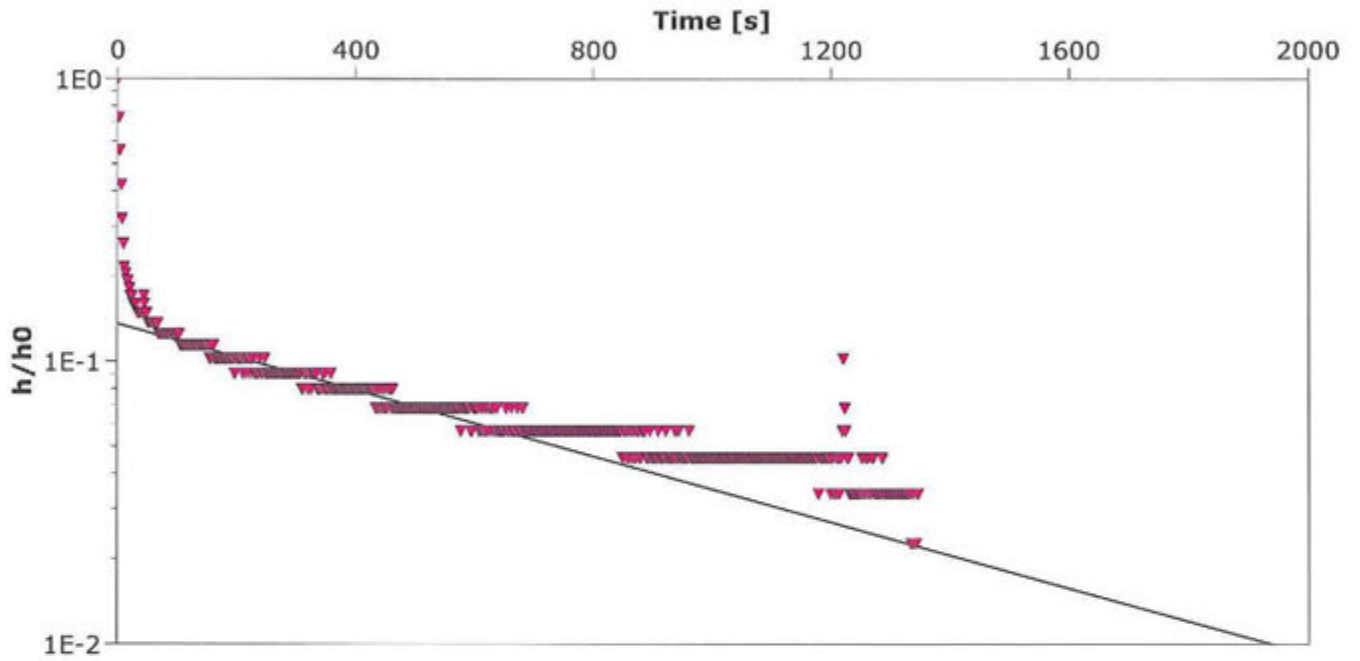
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-5S First Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 11.83 ft



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-5S	8.42×10^{-5}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-5S B

Test Well: MW-5S

Test Conducted by: Kevin Cucura

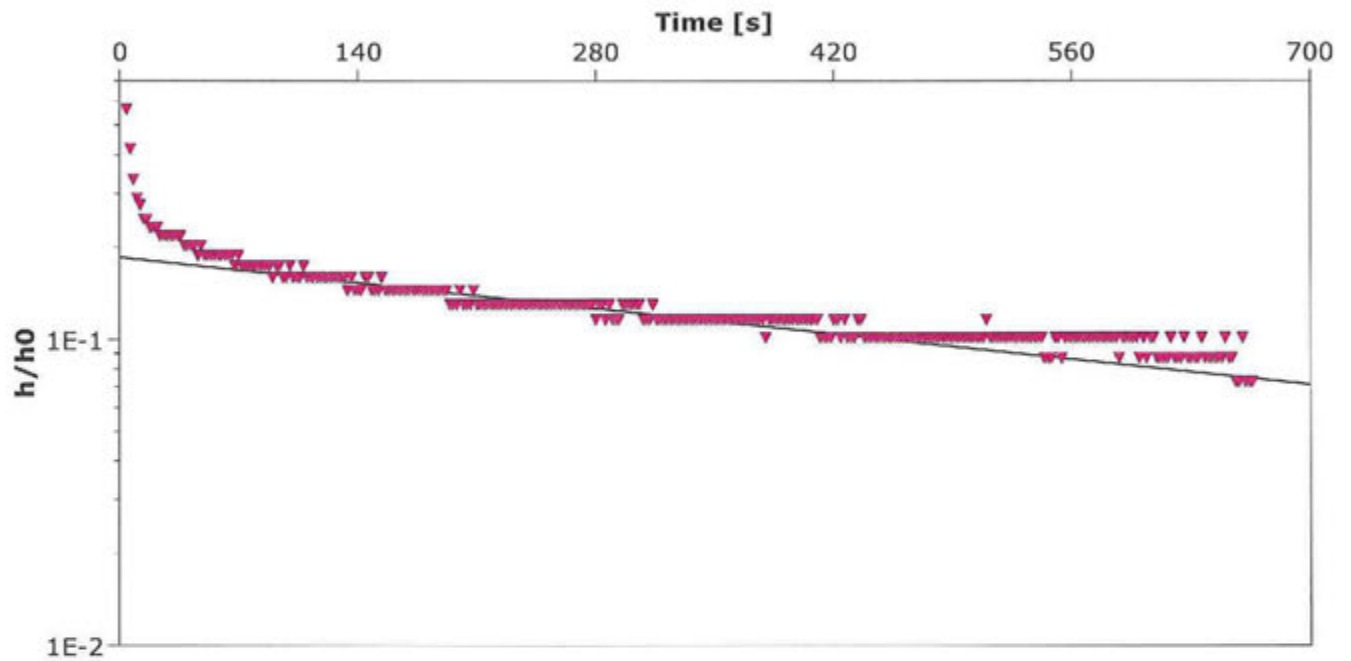
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-5S Second Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 141.96 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-5S	8.60×10^{-5}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-5S C

Test Well: MW-5S

Test Conducted by: Kevin Cucura

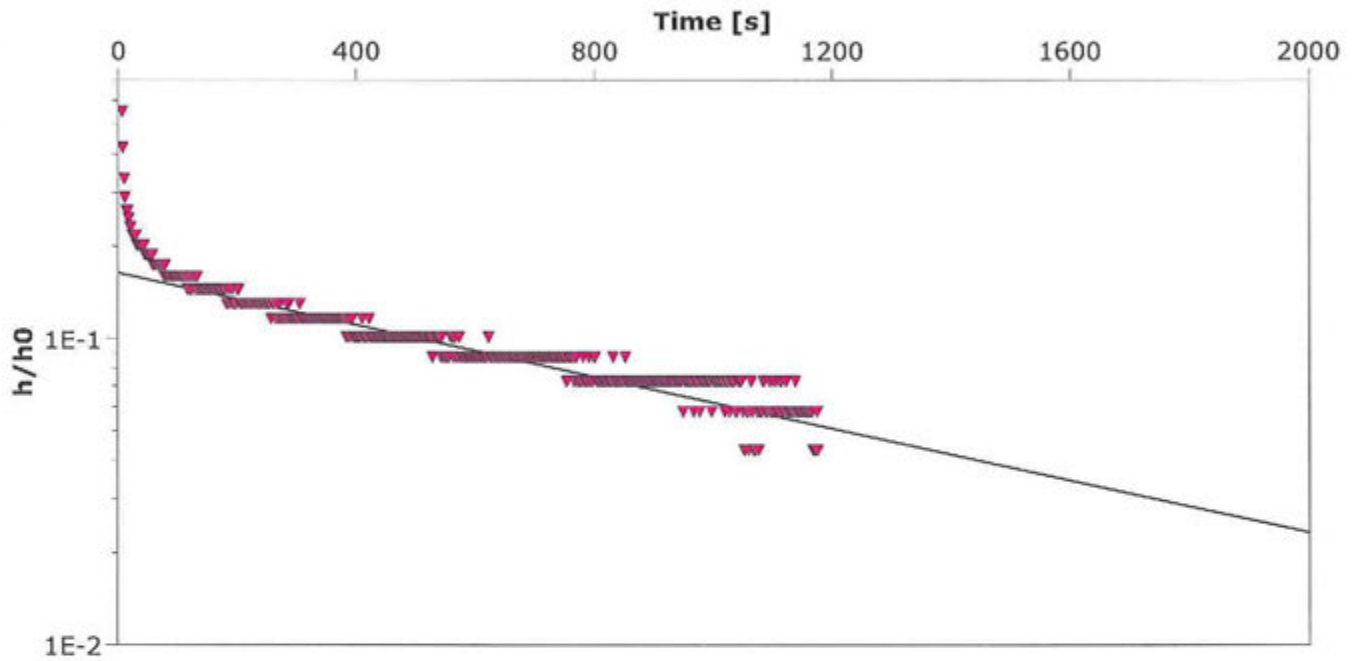
Test Date: 8/1/2008

Analysis Performed by: Kevin Cucura

MW-5S Third Run - Slug Out

Analysis Date: 1/28/2011

Aquifer Thickness: 141.96 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-5S	6.09×10^{-5}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

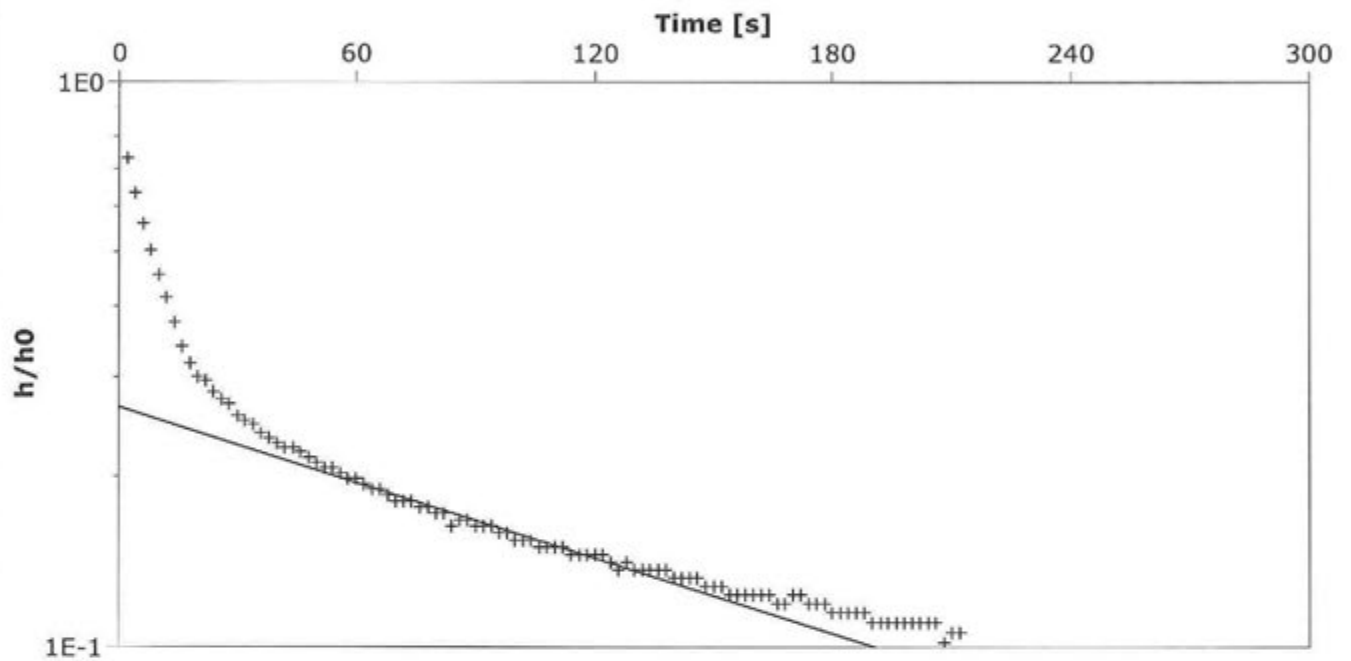
Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA	Slug Test: MW-7S A	Test Well: MW-7S
Test Conducted by: Kevin Cucura		Test Date: 8/19/2010
Analysis Performed by: Kevin Cucura	MW-7S First Run - Slug Out	Analysis Date: 2/7/2011
Aquifer Thickness: 101.40 in		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]	
MW-7S	1.53×10^{-3}	



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-8S A

Test Well: MW-8S

Test Conducted by: Kevin Cucura

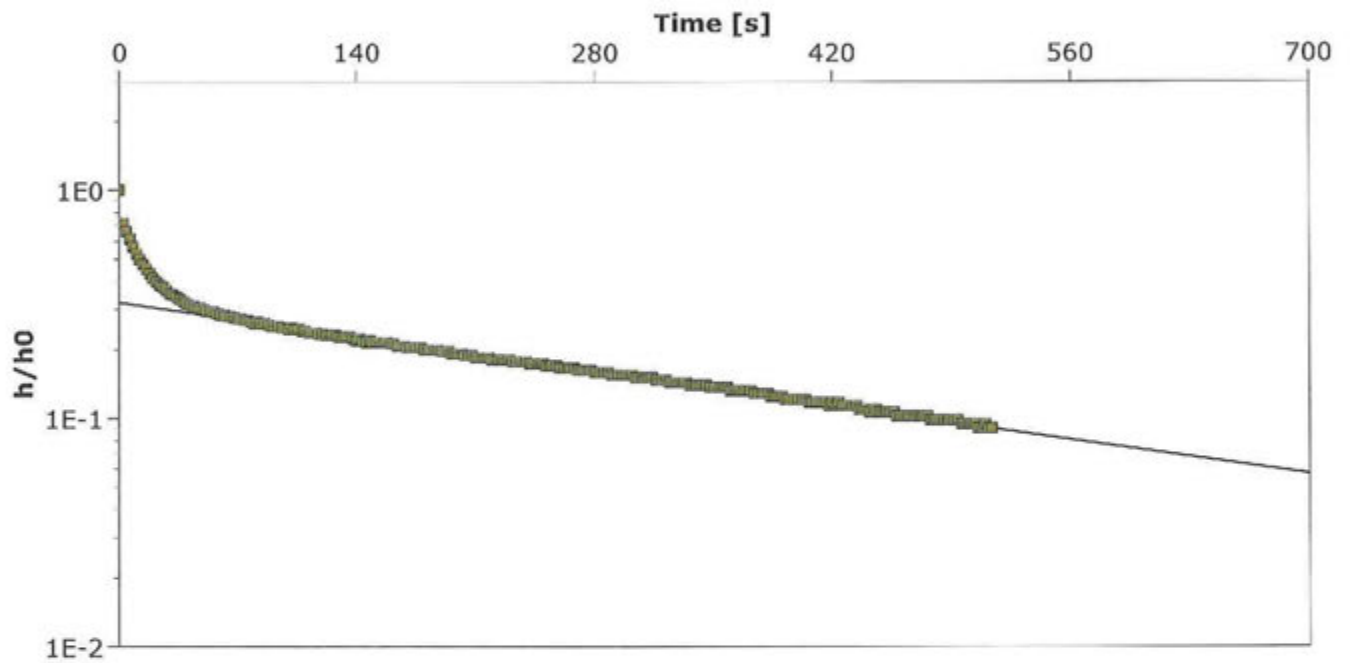
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-8S First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 123.00 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-8S	6.45×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-9S A

Test Well: MW-9S

Test Conducted by: Kevin Cucura

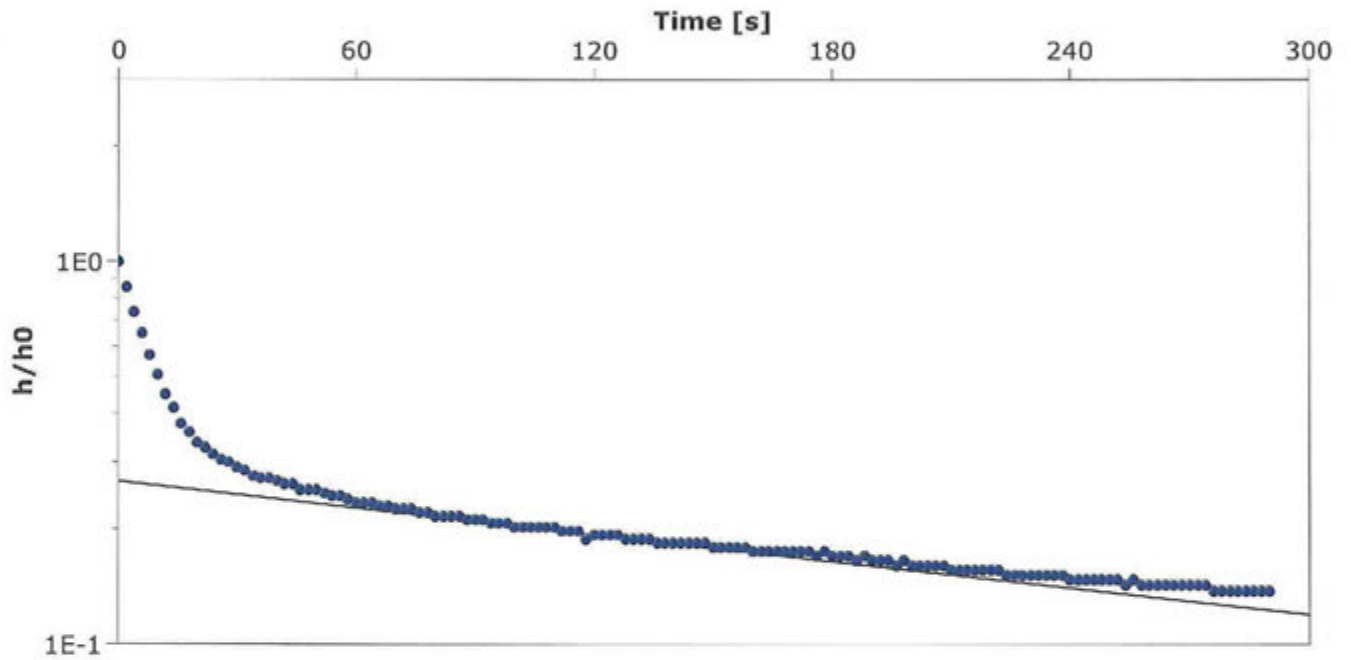
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-9S First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 109.92 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-9S	7.54×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-10S A

Test Well: MW-10S

Test Conducted by: Kevin Cucura

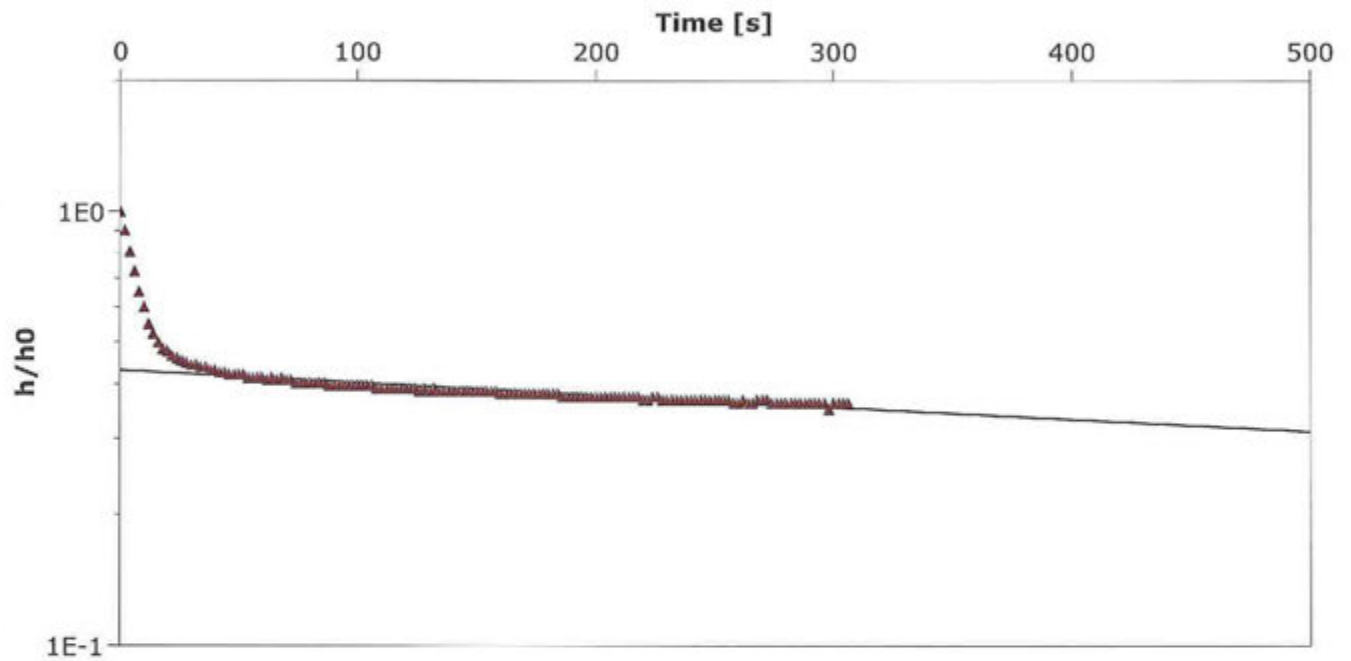
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-10S First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 95.04 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-10S	2.02×10^{-4}



Pennsylvania Tectonics, Inc.
 826 Main Street
 Peckville, PA
 570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-11S A

Test Well: MW-11S

Test Conducted by: Kevin Cucura

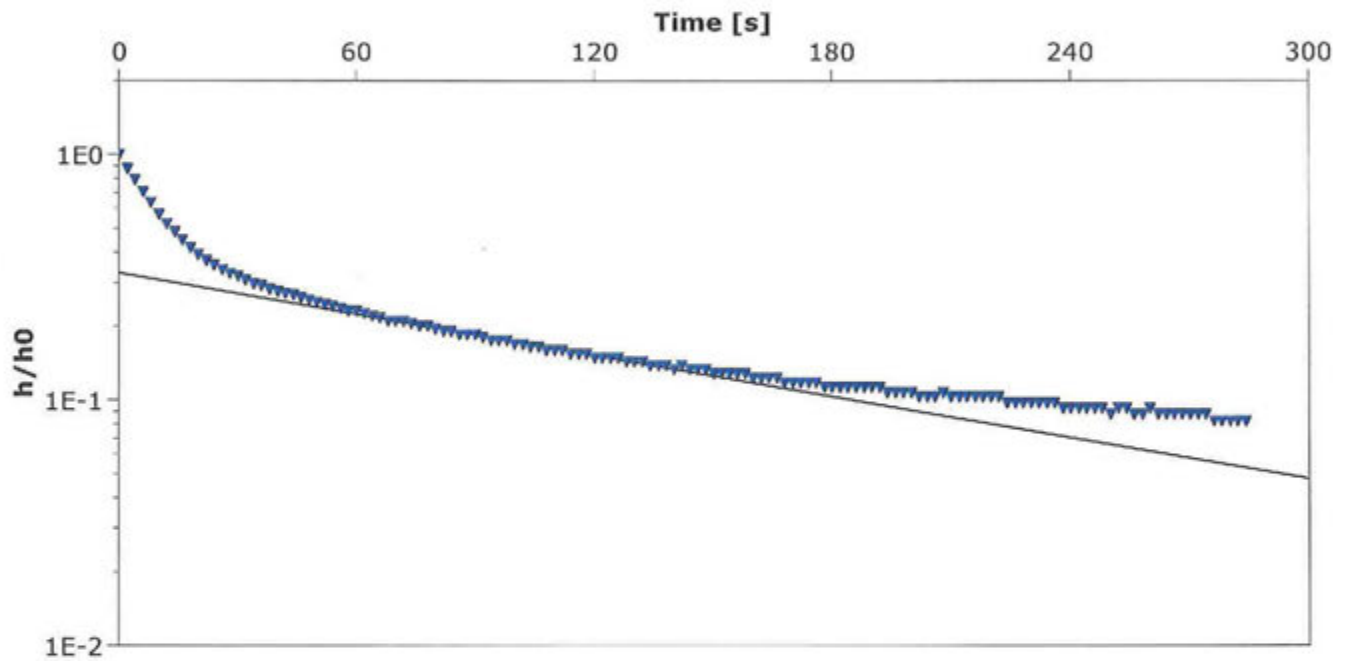
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-11S First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 189.60 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-11S	1.24×10^{-3}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-12S A

Test Well: MW-12S

Test Conducted by: Kevin Cucura

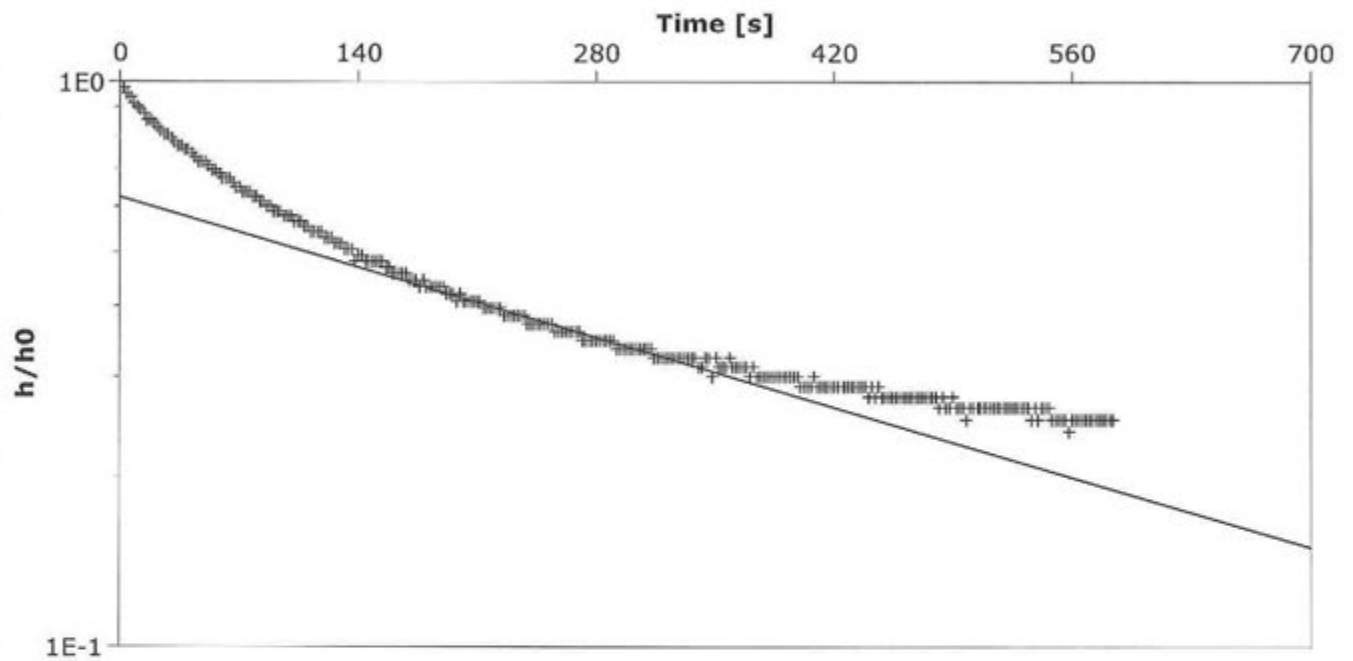
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-12S First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 137.88 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-12S	1.23×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-12S B

Test Well: MW-12S

Test Conducted by: Kevin Cucura

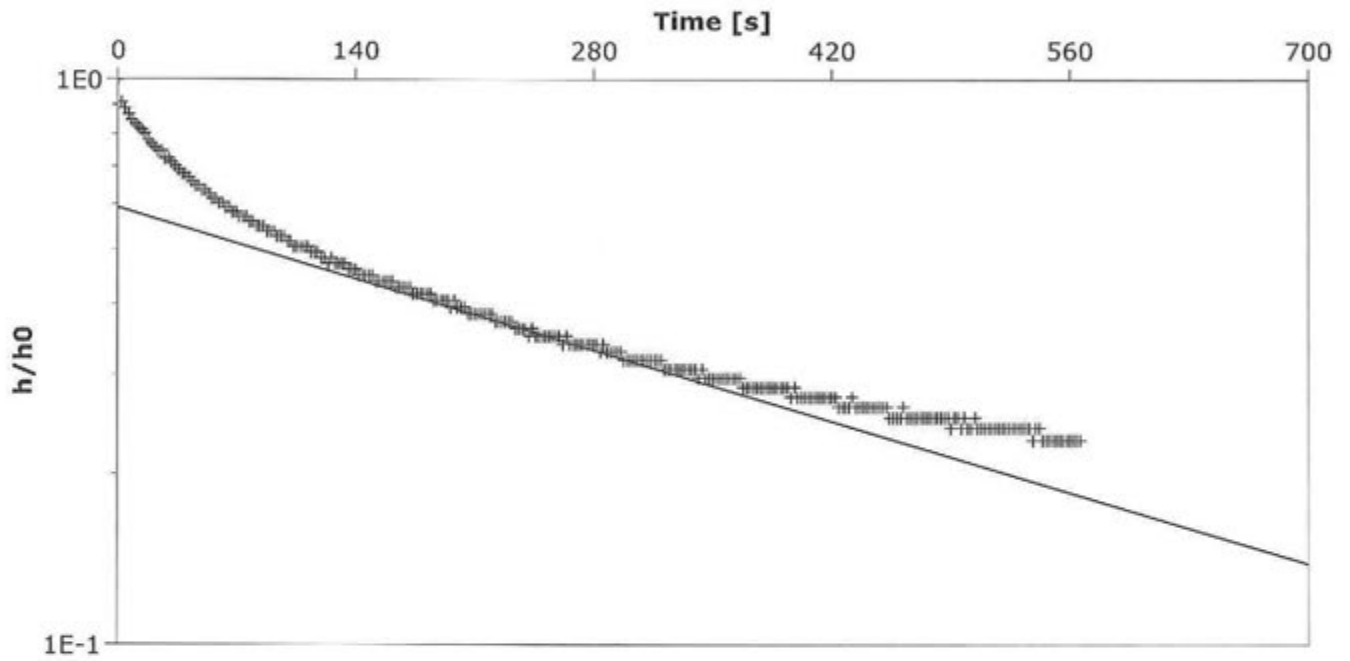
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-12S Second Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 137.88 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-12S	1.25×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-8D A

Test Well: MW-8D

Test Conducted by: Kevin Cucura

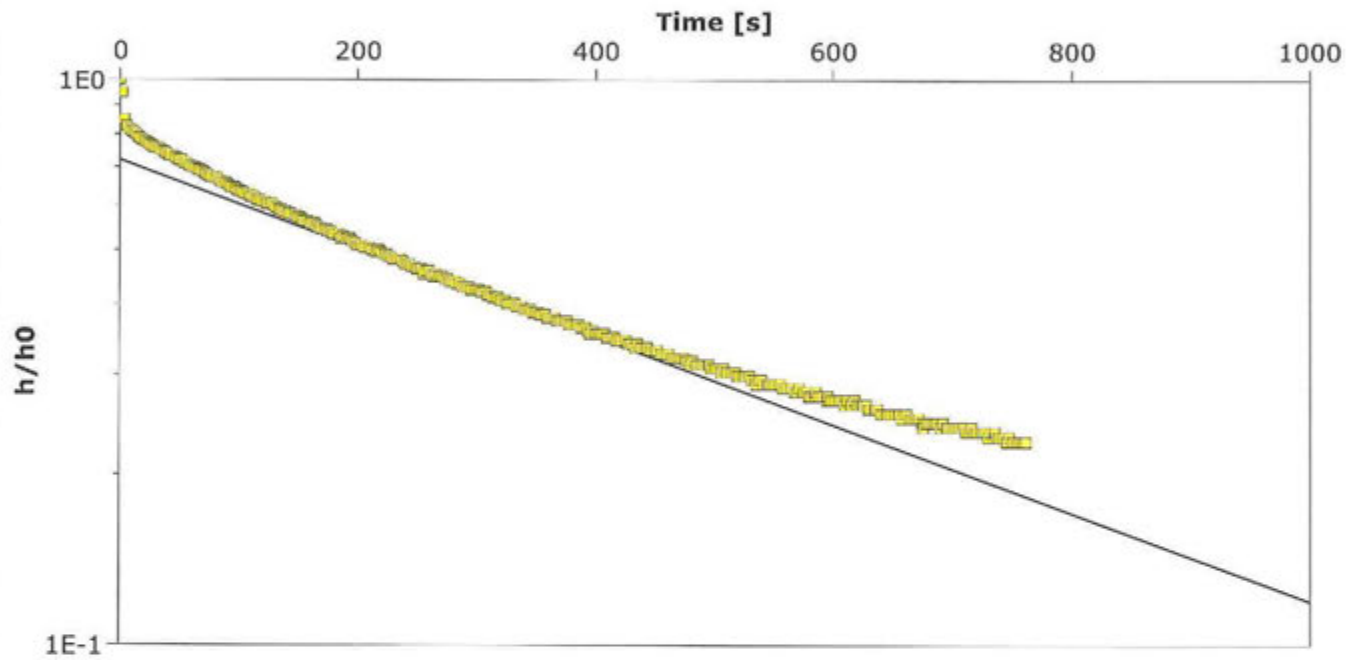
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-8D First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 312.48 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-8D	3.13×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-9D A

Test Well: MW-9D

Test Conducted by: Kevin Cucura

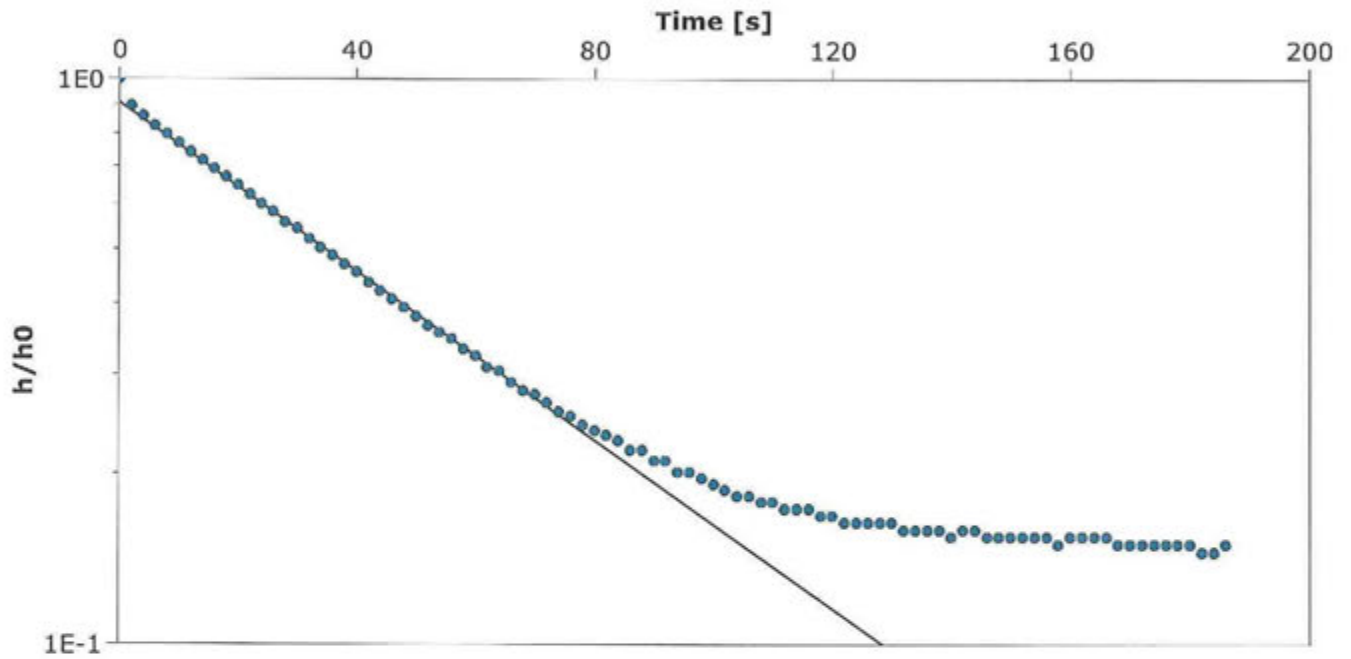
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-9D First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 1173.48 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-9D	2.99×10^{-3}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-9D B

Test Well: MW-9D

Test Conducted by: Kevin Cucura

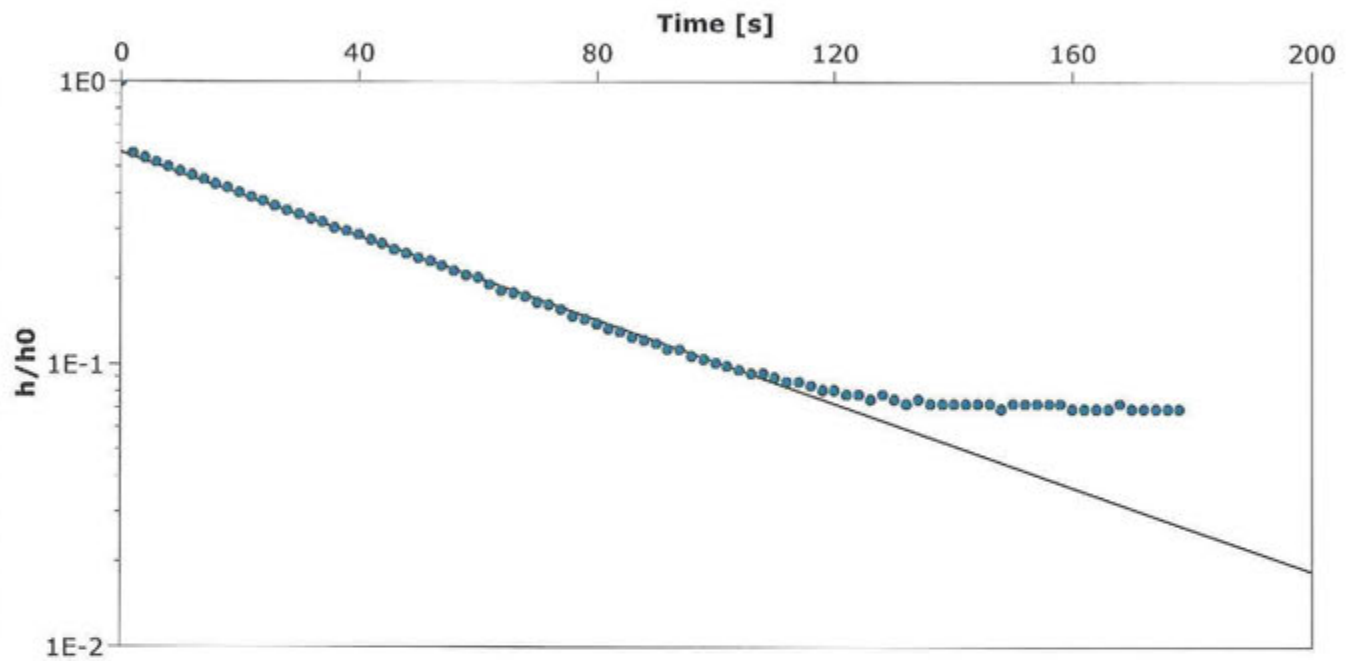
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-9D Second Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 1173.48 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-9D	2.98×10^{-3}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-10D A

Test Well: MW-10D

Test Conducted by: Kevin Cucura

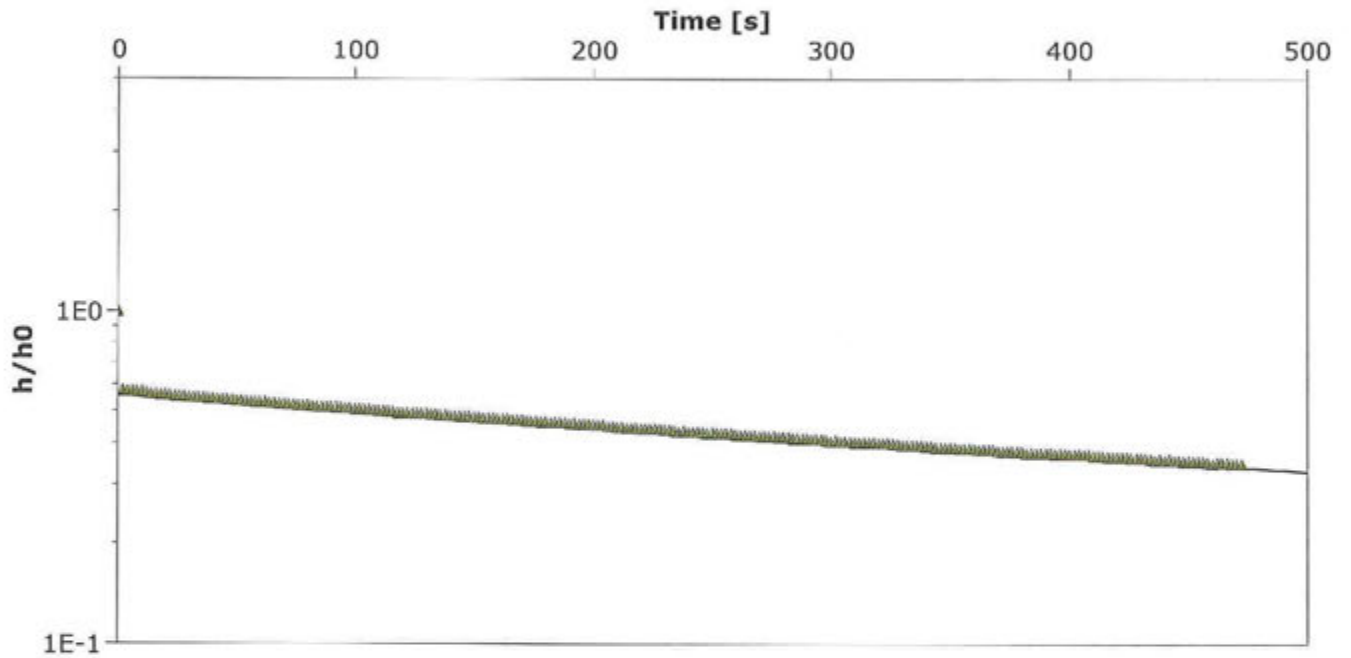
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-10D First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 1285.08 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-10D	1.84×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-11D A

Test Well: MW-11D

Test Conducted by: Kevin Cucura

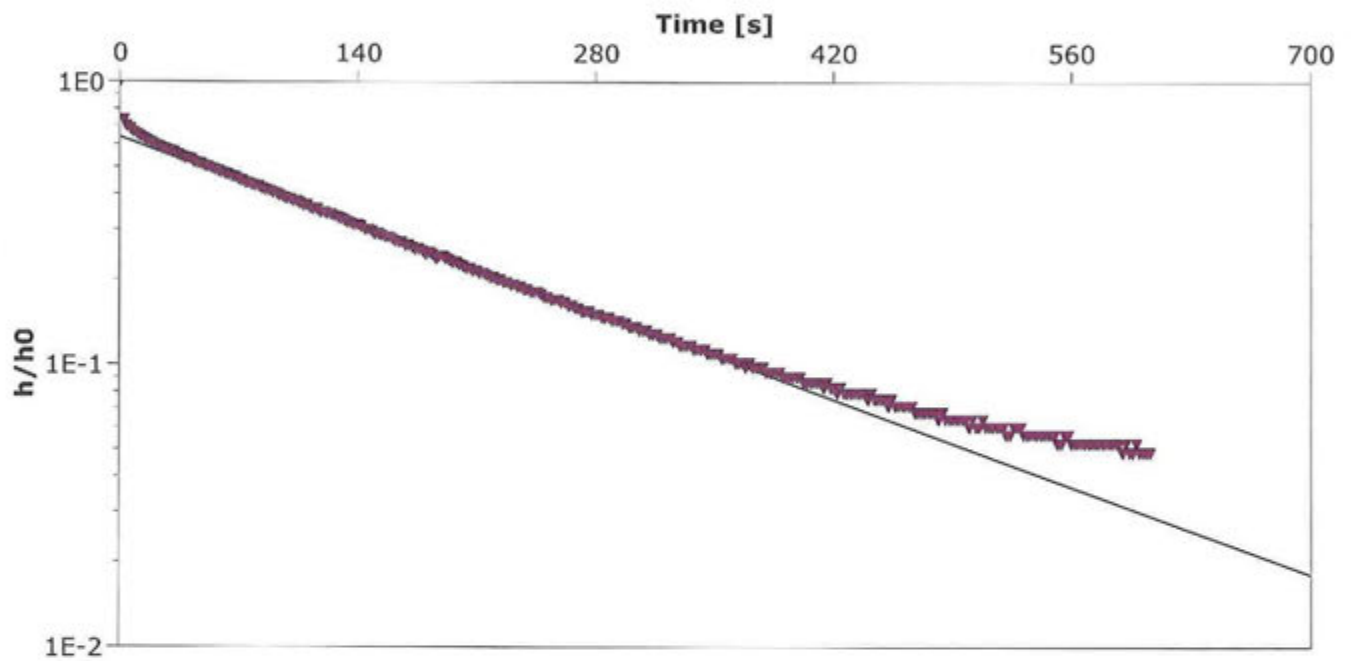
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-11D First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 630.48 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-11D	8.87×10^{-4}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-12D A

Test Well: MW-12D

Test Conducted by: Kevin Cucura

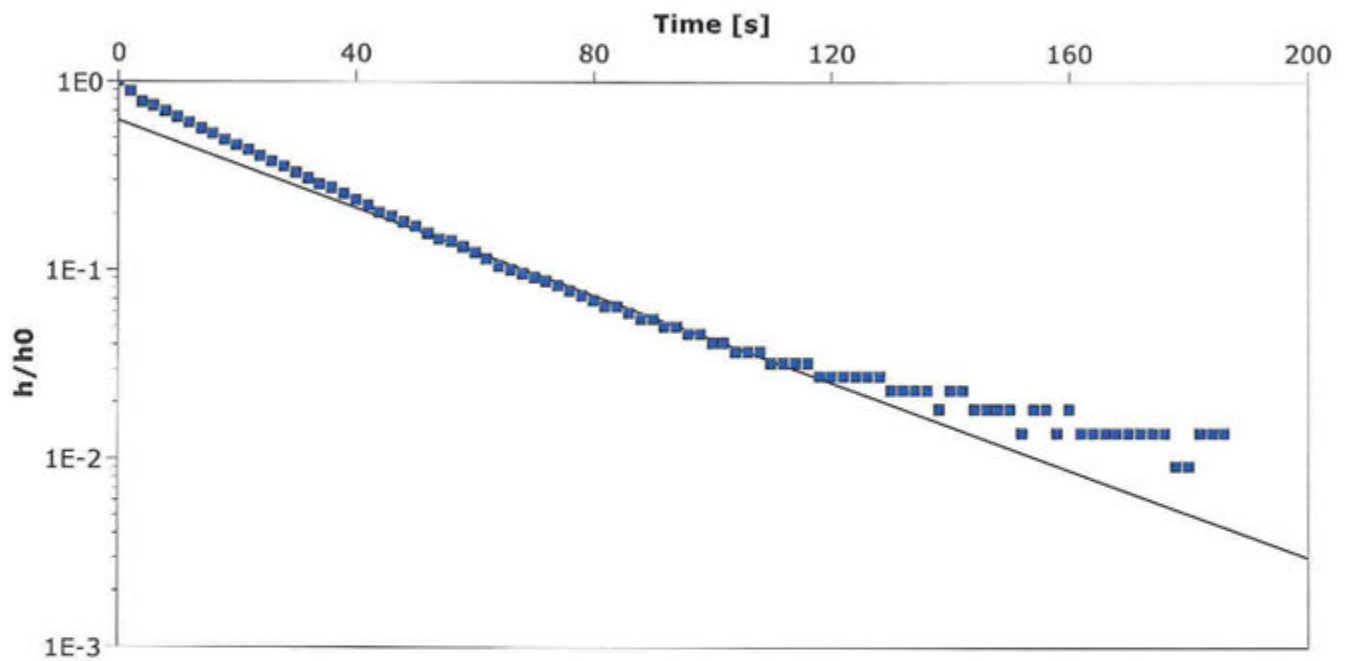
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-12D First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 1608.96 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-12D	4.65×10^{-3}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-12D B

Test Well: MW-12D

Test Conducted by: Kevin Cucura

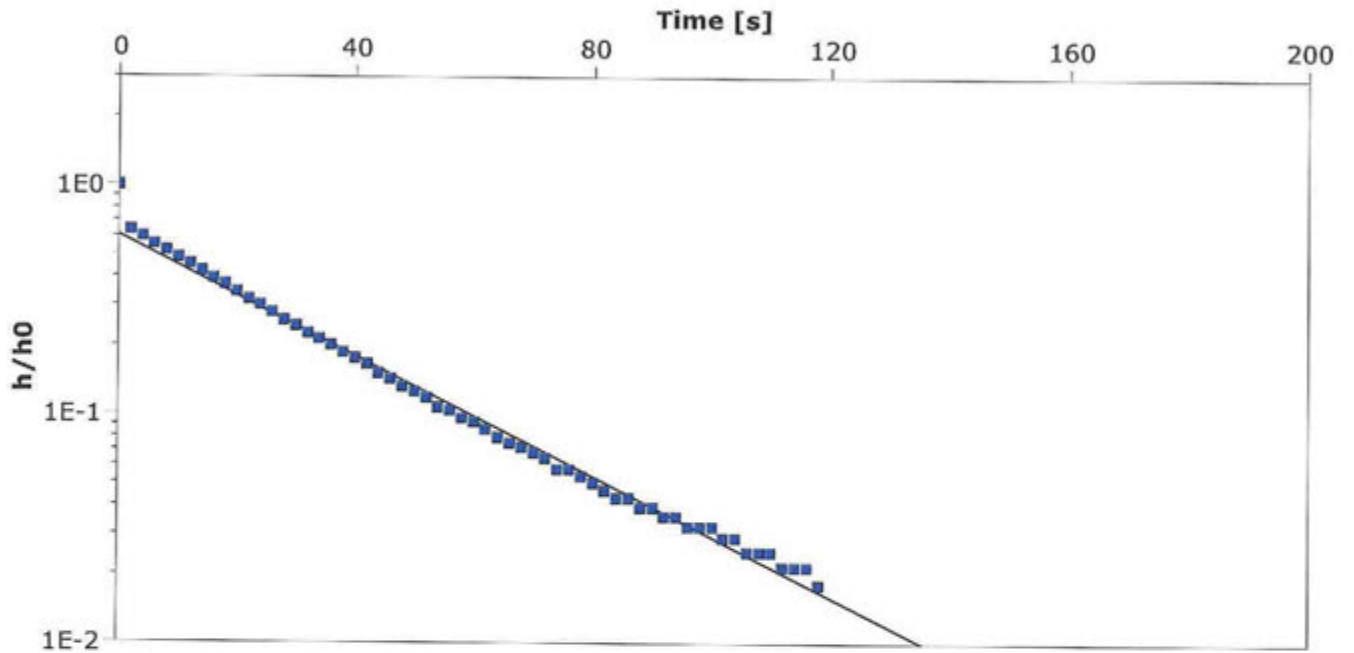
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-12D Second Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 1608.96 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-12D	5.29×10^{-3}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-12D C

Test Well: MW-12D

Test Conducted by: Kevin Cucura

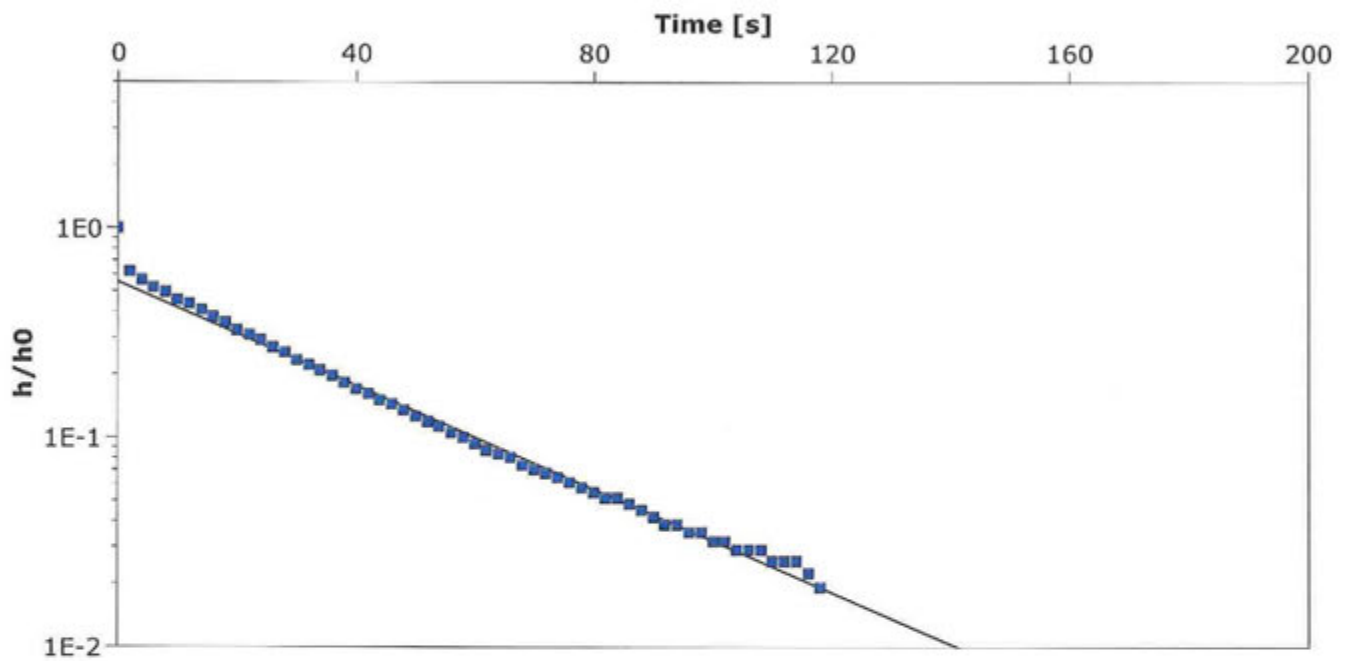
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-12D Third Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 1608.96 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-12D	4.96×10^{-3}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-13D A

Test Well: MW-13D

Test Conducted by: Kevin Cucura

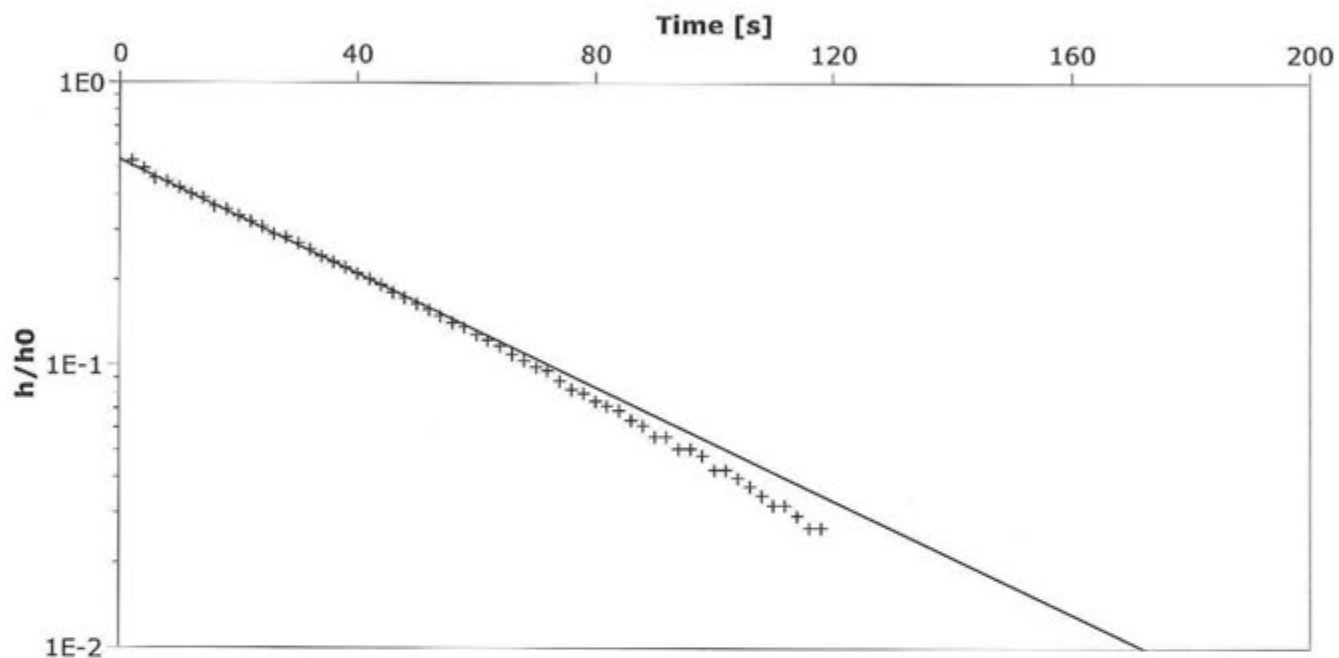
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-13D First Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 1566.96 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-13D	4.03×10^{-3}



Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA
570-487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-13D B

Test Well: MW-13D

Test Conducted by: Kevin Cucura

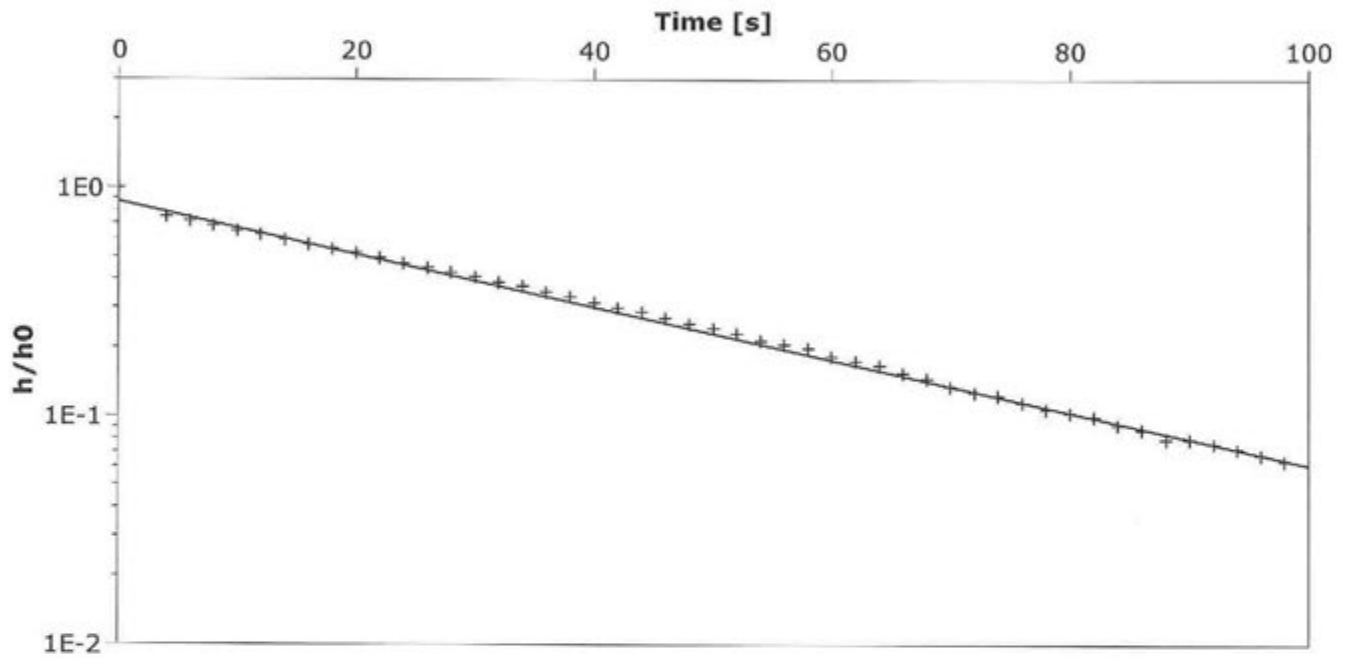
Test Date: 8/19/2010

Analysis Performed by: Kevin Cucura

MW-13D Second Run - Slug Out

Analysis Date: 2/7/2011

Aquifer Thickness: 1566.96 in



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-13D	4.63×10^{-3}

Slug Test Analysis Worksheet

Project: Lewis Brothers Garage Property
Project #: 27058
Analyzed By: Kevin Cucura
Analysis Date: 06/13/2016
Test Date: 05/04/2016
Well #: MW-2s
Test ID: MW-2s Slug Out

Slug Info

Size: 1" X 3'
Slug Volume (Vslug) = $\pi r^2 L$
Vslug = $(3.14)(0.5")^2 (36) = 28.26 \text{ in}^3$

Expected Displacement in 2" well (H^*o) = $V\text{slug} / \pi \text{ casing radius } (r_{\text{casing}})^2$

$H^*o = (28.26 \text{ in}^3) / (3.14) (1")^2 = 9" \text{ or } 0.75'$

Screen Radius (R) = 0.083'

Screen Length (L) = 20.2'

Saturated Thickness (b) = 16.17' (Total Depth minus Static Water Level)

Casing Radius (r) = 0.083'

Borehole Radius (B) = 0.34'

Static Water Level = 13.43' (measured in the field from top of casing)

Total Depth = 29.60' (measured in the field from top of casing)

Level @ Time 0 (T_o) = 13.81'

Slug Size = 1" X 3'

$H^*o = 0.75'$

Actual Displacement (H_o) = 0.51'

Notes: No issues.

$K = 8.44 \times 10^{-3}$ (ft/min)
 $K = 4.29 \times 10^{-3}$ (cm/sec)

Pennsylvania Tectonics, Inc.
 723 Main Street
 Archbald, PA 18403
 (570) 487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage Property

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-2s Slug Out

Test Well: MW-2s

Test Conducted by: Kevin Cucura

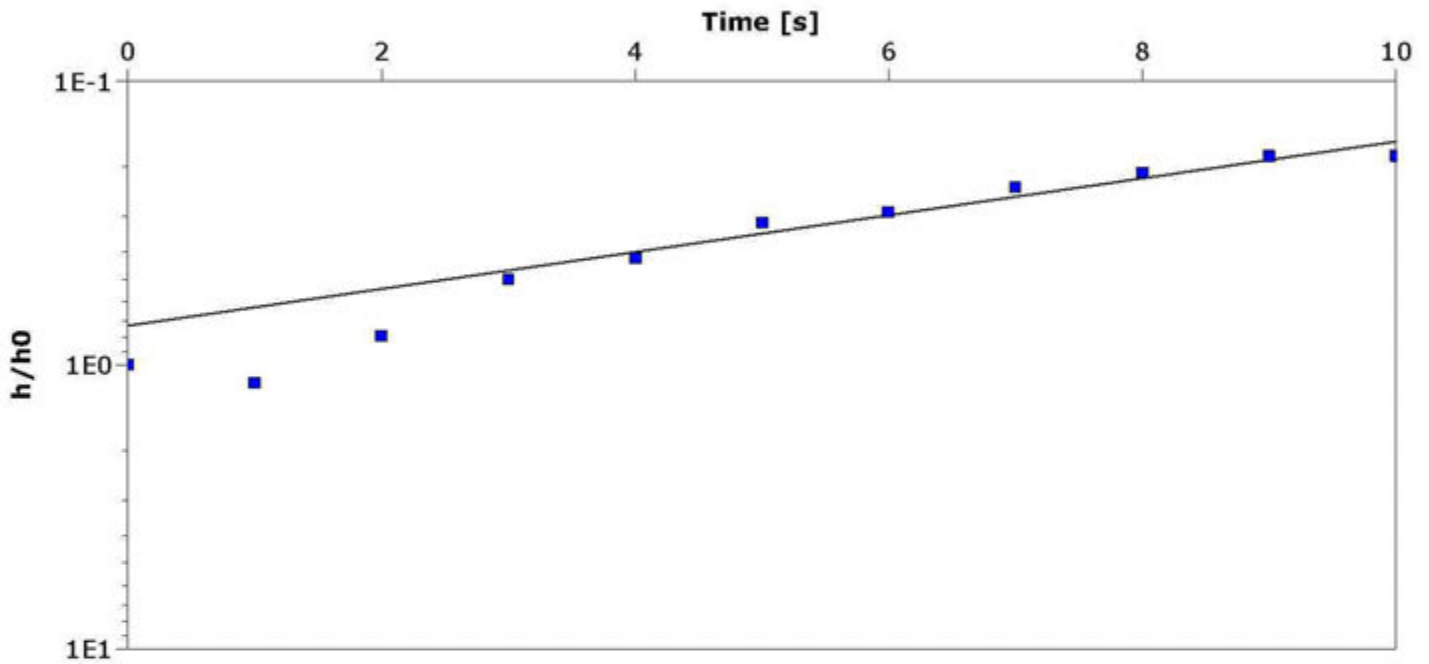
Test Date: 5/4/2016

Analysis Performed by: Kevin Cucura

MW-2s Slug Out

Analysis Date: 6/13/2016

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-2s	8.44×10^{-3}

Slug Test Analysis Worksheet

Project: Lewis Brothers Garage Property
Project #: 27058
Analyzed By: Kevin Cucura
Analysis Date: 06/13/2016
Test Date: 05/04/2016
Well #: MW-3s
Test ID: MW-3s Slug Out

Slug Info

Size: 1" X 3'
Slug Volume (Vslug) = $\pi r^2 L$
Vslug = $(3.14)(0.5")^2 (36) = 28.26 \text{ in}^3$

Expected Displacement in 2" well (H^*o) = $V\text{slug} / \pi \text{ casing radius } (r_{\text{casing}})^2$

$H^*o = (28.26 \text{ in}^3) / (3.14) (1")^2 = 9" \text{ or } 0.75'$

Screen Radius (R) = 0.083'

Screen Length (L) = 21.0'

Saturated Thickness (b) = 15.18' (Total Depth minus Static Water Level)

Casing Radius (r) = 0.083'

Borehole Radius (B) = 0.34'

Static Water Level = 12.45' (measured in the field from top of casing)

Total Depth = 28.00' (measured in the field from top of casing)

Level @ Time 0 (T_o) = 13.02'

Slug Size = 1" X 3'

$H^*o = 0.75'$

Actual Displacement (H_o) = 0.57'

Notes: No issues.

$K = 1.14 \times 10^{-3}$ (ft/min)
 $K = 5.79 \times 10^{-4}$ (cm/sec)

Pennsylvania Tectonics, Inc.
 723 Main Street
 Archbald, PA 18403
 (570) 487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage Property

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-3s Slug Out

Test Well: MW-3s

Test Conducted by: Kevin Cucura

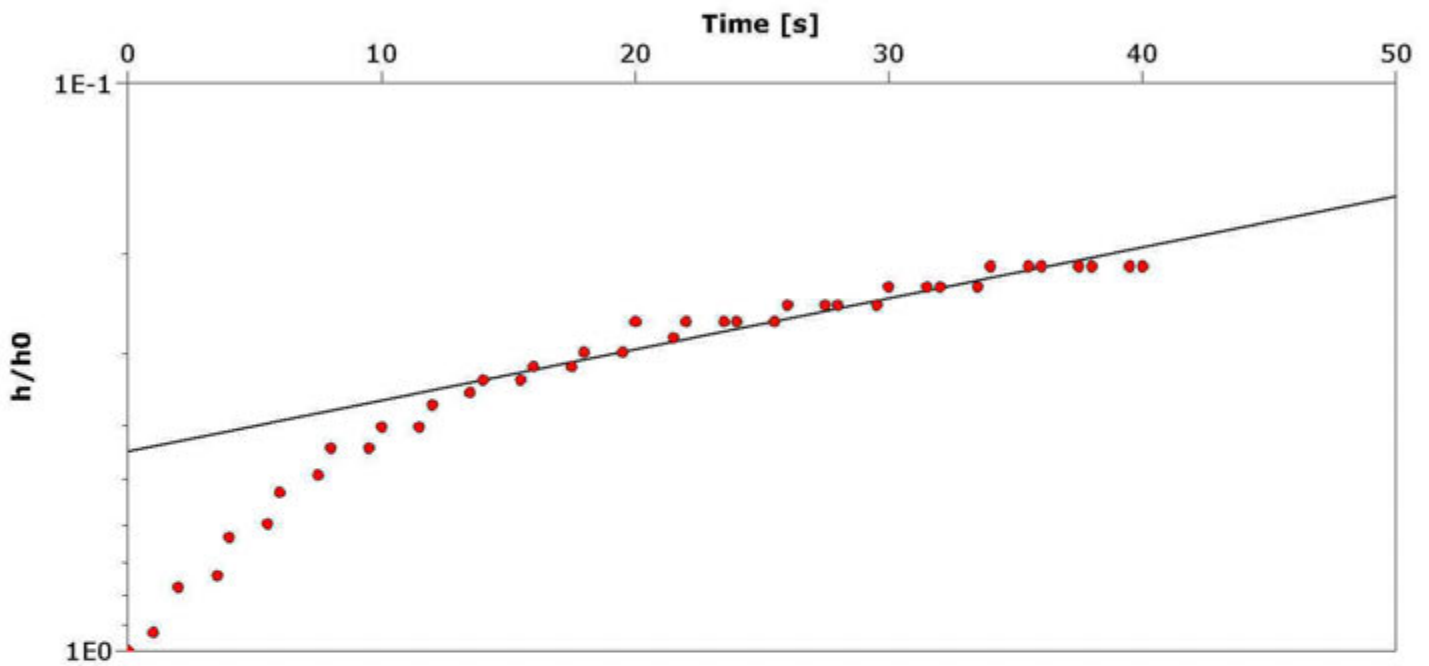
Test Date: 5/4/2016

Analysis Performed by: Kevin Cucura

MW-3s Slug Out

Analysis Date: 6/13/2016

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-3s	1.14×10^{-3}

Slug Test Analysis Worksheet

Project: Lewis Brothers Garage Property
Project #: 27058
Analyzed By: Kevin Cucura
Analysis Date: 06/13/2016
Test Date: 05/04/2016
Well #: MW-4s
Test ID: MW-4s Slug Out

Slug Info

Size: 1" X 3'
Slug Volume (Vslug) = $\pi r^2 L$
Vslug = $(3.14)(0.5")^2 (36) = 28.26 \text{ in}^3$

Expected Displacement in 2" well (H^*o) = $V\text{slug} / \pi \text{ casing radius } (r_{\text{casing}})^2$

$H^*o = (28.26 \text{ in}^3) / (3.14) (1")^2 = 9" \text{ or } 0.75'$

Screen Radius (R) = 0.083'

Screen Length (L) = 21.0'

Saturated Thickness (b) = 15.32' (Total Depth minus Static Water Level)

Casing Radius (r) = 0.083'

Borehole Radius (B) = 0.34'

Static Water Level = 9.58' (measured in the field from top of casing)

Total Depth = 24.90' (measured in the field from top of casing)

Level @ Time 0 (T_o) = 10.09'

Slug Size = 1" X 3'

$H^*o = 0.75'$

Actual Displacement (H_o) = 0.51'

Notes: No issues.

$K = 5.44 \times 10^{-5}$ (ft/min)
 $K = 2.77 \times 10^{-5}$ (cm/sec)

Pennsylvania Tectonics, Inc.
 723 Main Street
 Archbald, PA 18403
 (570) 487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage Property

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-4s

Test Well: MW-4s

Test Conducted by: Kevin Cucura

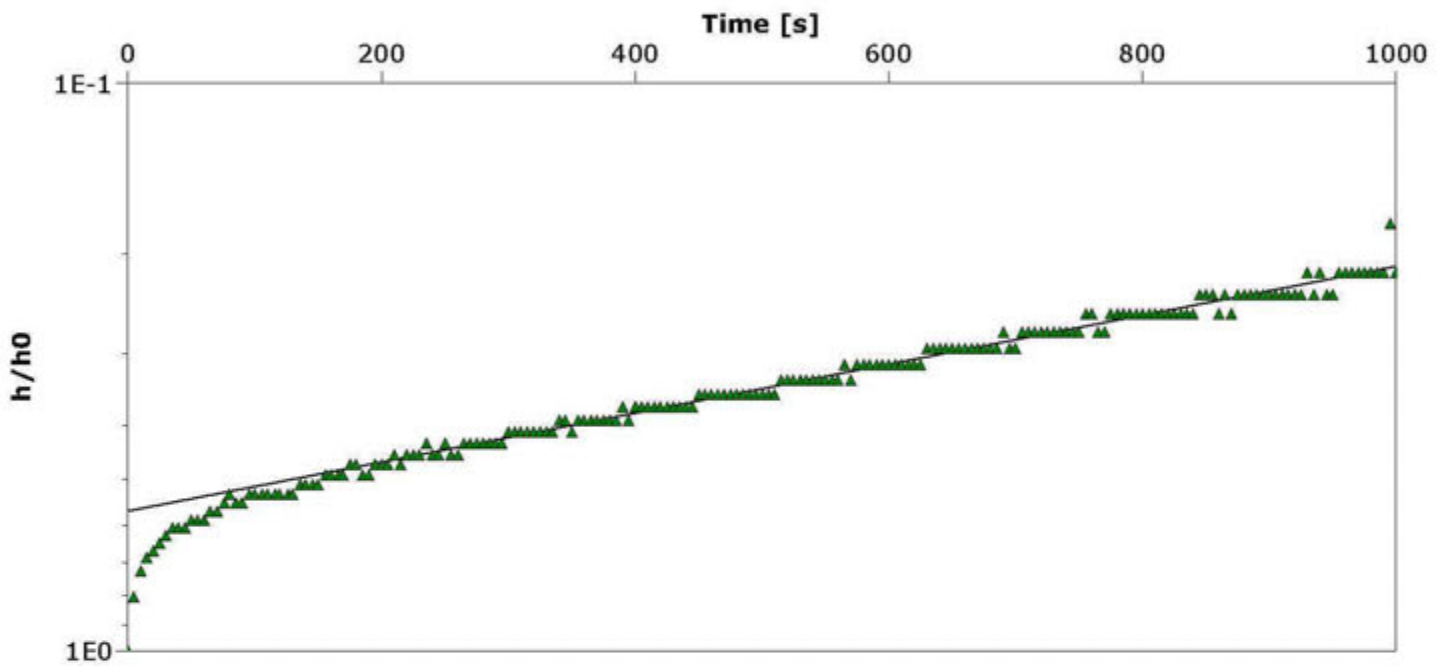
Test Date: 5/4/2016

Analysis Performed by: Kevin Cucura

MW-4s Slug Out

Analysis Date: 6/13/2016

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-4s	5.44×10^{-5}

Slug Test Analysis Worksheet

Project: Lewis Brothers Garage Property
Project #: 27058
Analyzed By: Kevin Cucura
Analysis Date: 06/13/2016
Test Date: 05/03/2016
Well #: MW-10s
Test ID: MW-10s Slug Out

Slug Info

Size: 3" X 4'
Slug Volume (Vslug) = $\pi r^2 L$
Vslug = $(3.14)(1.5")^2 (48) = 339.12 \text{ in}^3$

Expected Displacement in 4" well (H^*o) = $V\text{slug} / \pi \text{ casing radius } (r_{\text{casing}})^2$

$H^*o = (339.12 \text{ in}^3) / (3.14) (2")^2 = 27"$ or 2.25'

Screen Radius (R) = 0.167'

Screen Length (L) = 18.0'

Saturated Thickness (b) = 10.87' (Total Depth minus Static Water Level)

Casing Radius (r) = 0.167'

Borehole Radius (B) = 0.42'

Static Water Level = 7.66' (measured in the field from top of casing)

Total Depth = 18.53' (measured in the field from top of casing)

Level @ Time 0 (T_o) = 9.52'

Slug Size = 3" X 4'

$H^*o = 2.25'$

Actual Displacement (H_o) = 1.86'

Notes: No issues.

$K = 6.77 \times 10^{-5}$ (ft/min)
 $K = 3.44 \times 10^{-5}$ (cm/sec)

Pennsylvania Tectonics, Inc.
 723 Main Street
 Archbald, PA 18403
 (570) 487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage Property

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-10s Slug Out

Test Well: MW-10s

Test Conducted by: Kevin Cucura

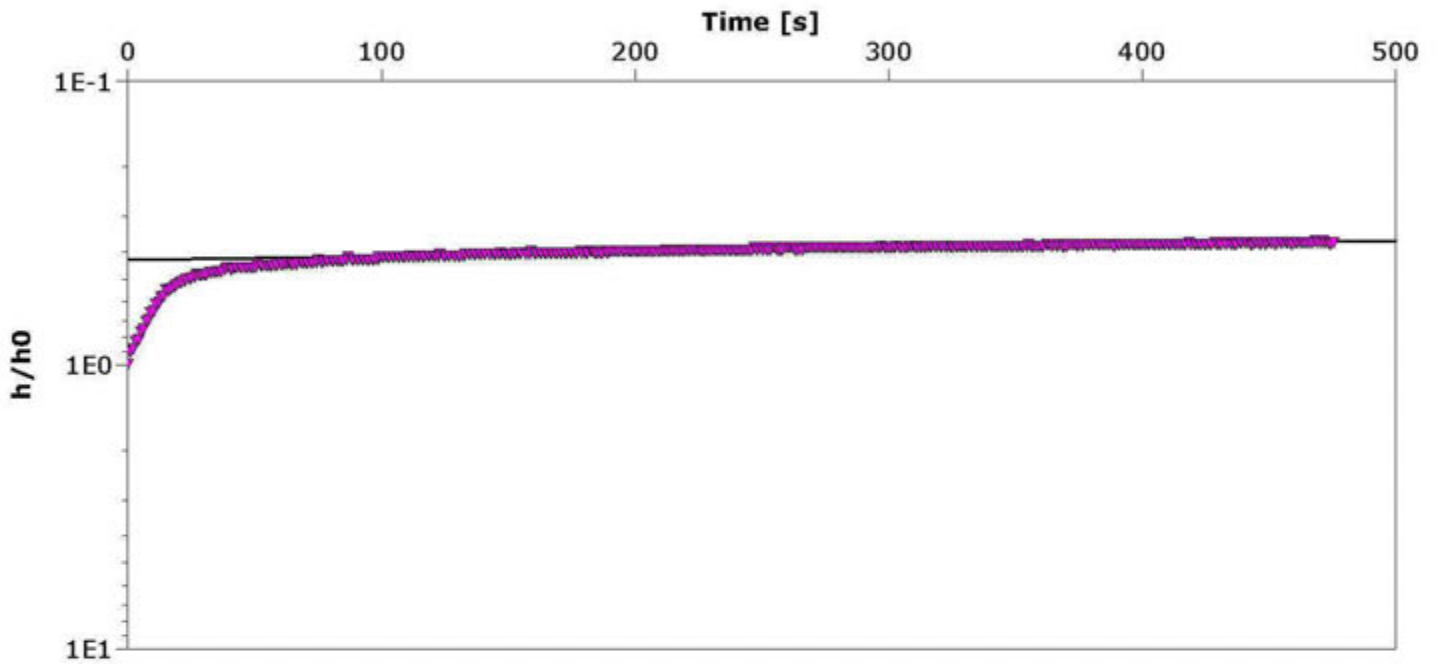
Test Date: 5/3/2016

Analysis Performed by: Kevin Cucura

MW-10s Slug Out

Analysis Date: 6/13/2016

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-10s	6.77×10^{-5}

Slug Test Analysis Worksheet

Project: Lewis Brothers Garage Property
Project #: 27058
Analyzed By: Kevin Cucura
Analysis Date: 06/13/2016
Test Date: 05/03/2016
Well #: MW-11s
Test ID: MW-11s Slug Out

Slug Info

Size: 3" X 4'
Slug Volume (Vslug) = $\pi r^2 L$
Vslug = $(3.14)(1.5")^2 (48) = 339.12 \text{ in}^3$

Expected Displacement in 4" well (H^*o) = $V\text{slug} / \pi \text{ casing radius } (r_{\text{casing}})^2$

$H^*o = (339.12 \text{ in}^3) / (3.14) (2")^2 = 27"$ or 2.25'

Screen Radius (R) = 0.167'

Screen Length (L) = 21.0'

Saturated Thickness (b) = 19.62' (Total Depth minus Static Water Level)

Casing Radius (r) = 0.167'

Borehole Radius (B) = 0.42'

Static Water Level = 3.92' (measured in the field from top of casing)

Total Depth = 23.54' (measured in the field from top of casing)

Level @ Time 0 (T_o) = 6.15'

Slug Size = 3" X 4'

$H^*o = 2.25'$

Actual Displacement (H_o) = 2.23'

Notes: No issues.

$K = 1.53 \times 10^{-3}$ (ft/min)
 $K = 7.79 \times 10^{-4}$ (cm/sec)

Pennsylvania Tectonics, Inc.
723 Main Street
Archbald, PA 18403
(570) 487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage Property

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-11s Slug Out

Test Well: MW-11s

Test Conducted by: Kevin Cucura

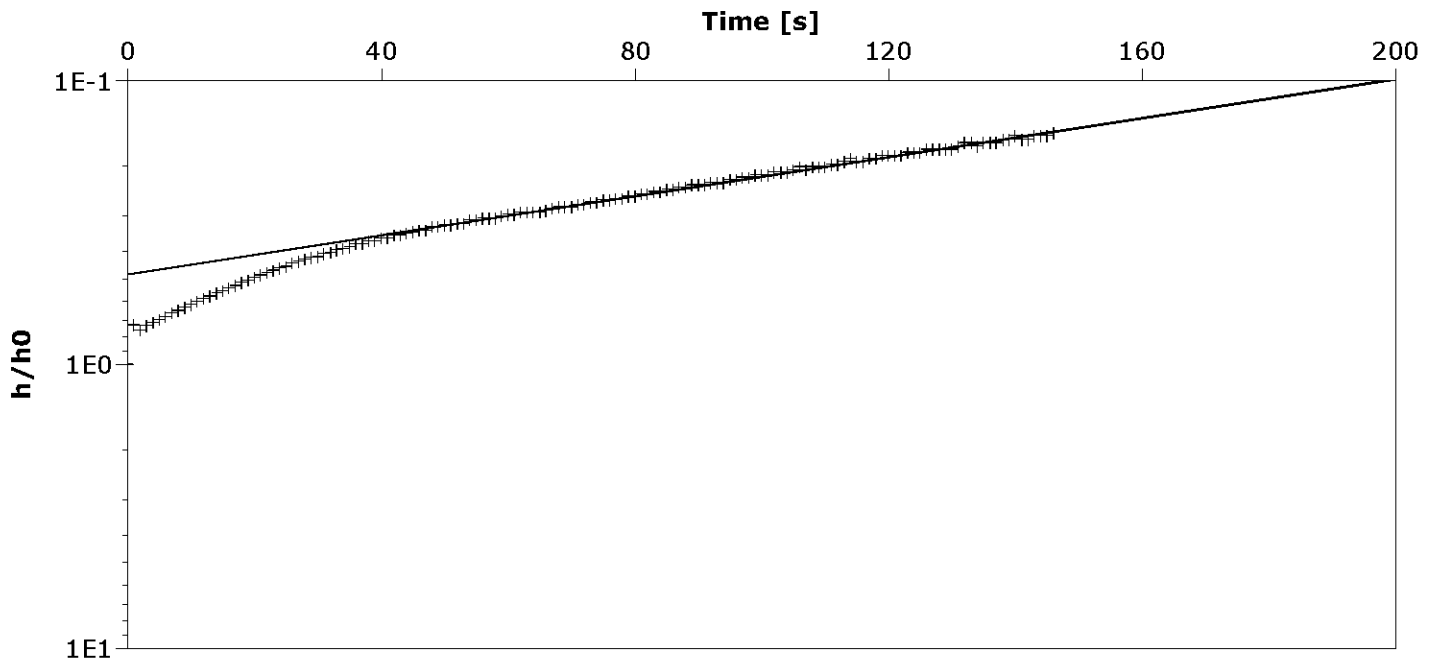
Test Date: 5/3/2016

Analysis Performed by: Kevin Cucura

MW-11s Slug Out

Analysis Date: 6/13/2016

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
------------------	------------------------------------

MW-11s	1.53×10^{-3}
--------	-----------------------

Slug Test Analysis Worksheet

Project: Lewis Brothers Garage Property
Project #: 27058
Analyzed By: Kevin Cucura
Analysis Date: 06/13/2016
Test Date: 05/03/2016
Well #: MW-2D
Test ID: MW-2D Slug Out

Slug Info

Size: 3" X 4'
Slug Volume (Vslug) = $\pi r^2 L$
Vslug = $(3.14)(1.5")^2 (48) = 339.12 \text{ in}^3$

Expected Displacement in 6" well (H^*o) = $V\text{slug} / \pi \text{ casing radius } (rcasing)^2$

$H^*o = (339.12 \text{ in}^3) / (3.14) (3")^2 = 12"$ or 1.0'

Screen Radius (R) = 0.25'

Screen Length (L) = 40.0'

Saturated Thickness (b) = 63.69' (Total Depth minus Static Water Level)

Casing Radius (r) = 0.25'

Borehole Radius (B) = 0.25'

Static Water Level = 15.09' (measured in the field from top of casing)

Total Depth = 78.78' (measured in the field from top of casing)

Level @ Time 0 (T_o) = 16.01'

Slug Size = 3" X 4'

$H^*o = 1.0'$

Actual Displacement (H_o) = 0.92'

Notes: No issues.

$K = 1.20 \times 10^{-5}$ (ft/min)
 $K = 6.10 \times 10^{-6}$ (cm/sec)

Pennsylvania Tectonics, Inc.
 723 Main Street
 Archbald, PA 18403
 (570) 487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage Property

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-2D Slug Out

Test Well: MW-2D

Test Conducted by: Kevin Cucura

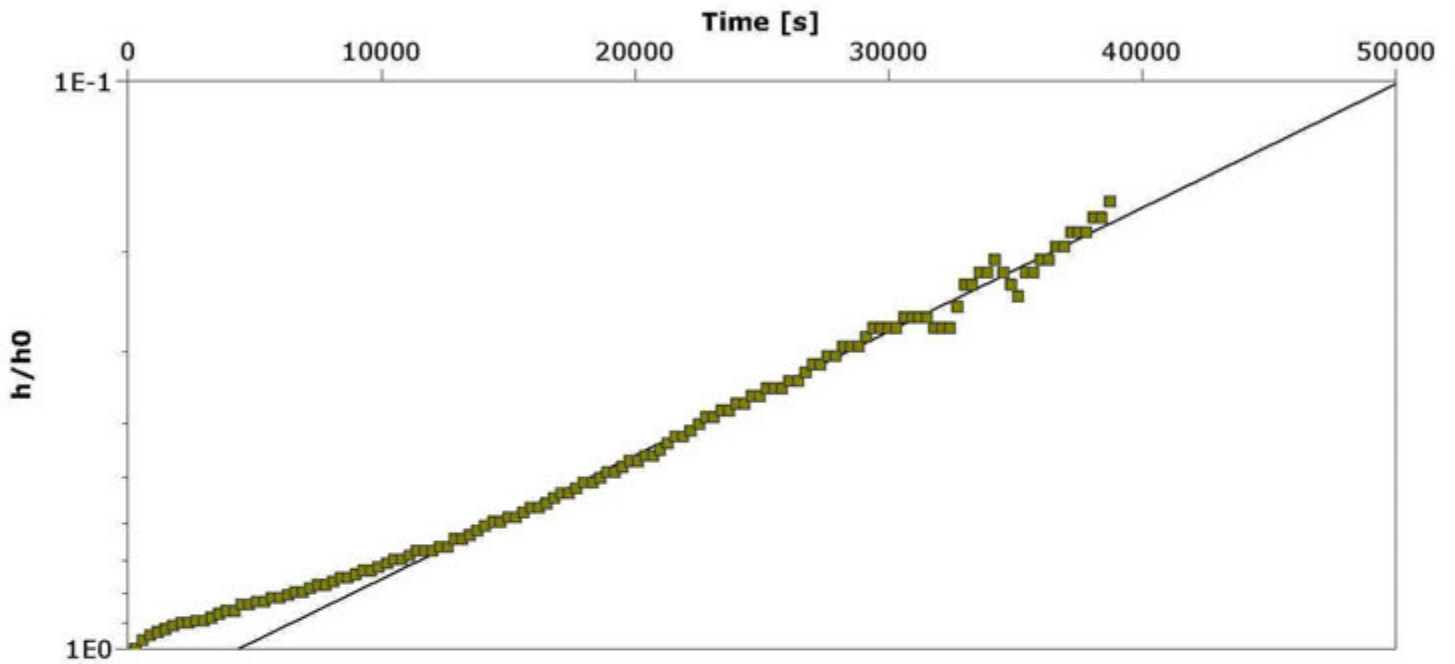
Test Date: 5/3/2016

Analysis Performed by: Kevin Cucura

MW-2D Slug Out

Analysis Date: 6/13/2016

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-2D	1.20×10^{-5}

Slug Test Analysis Worksheet

Project: Lewis Brothers Garage Property
Project #: 27058
Analyzed By: Kevin Cucura
Analysis Date: 06/13/2016
Test Date: 05/04/2016
Well #: MW-7D
Test ID: MW-7D Slug Out

Slug Info

Size: 3" X 4'
Slug Volume (Vslug) = $\pi r^2 L$
Vslug = $(3.14)(1.5")^2 (48) = 339.12 \text{ in}^3$

Expected Displacement in 6" well (H^*o) = $V\text{slug} / \pi \text{ casing radius } (r_{\text{casing}})^2$

$H^*o = (339.12 \text{ in}^3) / (3.14) (3")^2 = 12"$ or 1.0'

Screen Radius (R) = 0.25'

Screen Length (L) = 15.0'

Saturated Thickness (b) = 46.39' (Total Depth minus Static Water Level)

Casing Radius (r) = 0.25'

Borehole Radius (B) = 0.25'

Static Water Level = 14.01' (measured in the field from top of casing)

Total Depth = 60.40' (measured in the field from top of casing)

Level @ Time 0 (T_o) = 15.04'

Slug Size = 3" X 4'

$H^*o = 1.0'$

Actual Displacement (H_o) = 1.03'

Notes: No issues.

$K = 4.94 \times 10^{-4}$ (ft/min)
 $K = 2.51 \times 10^{-4}$ (cm/sec)

Pennsylvania Tectonics, Inc.
 723 Main Street
 Archbald, PA 18403
 (570) 487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage Property

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-7D

Test Well: MW-7D

Test Conducted by: Kevin Cucura

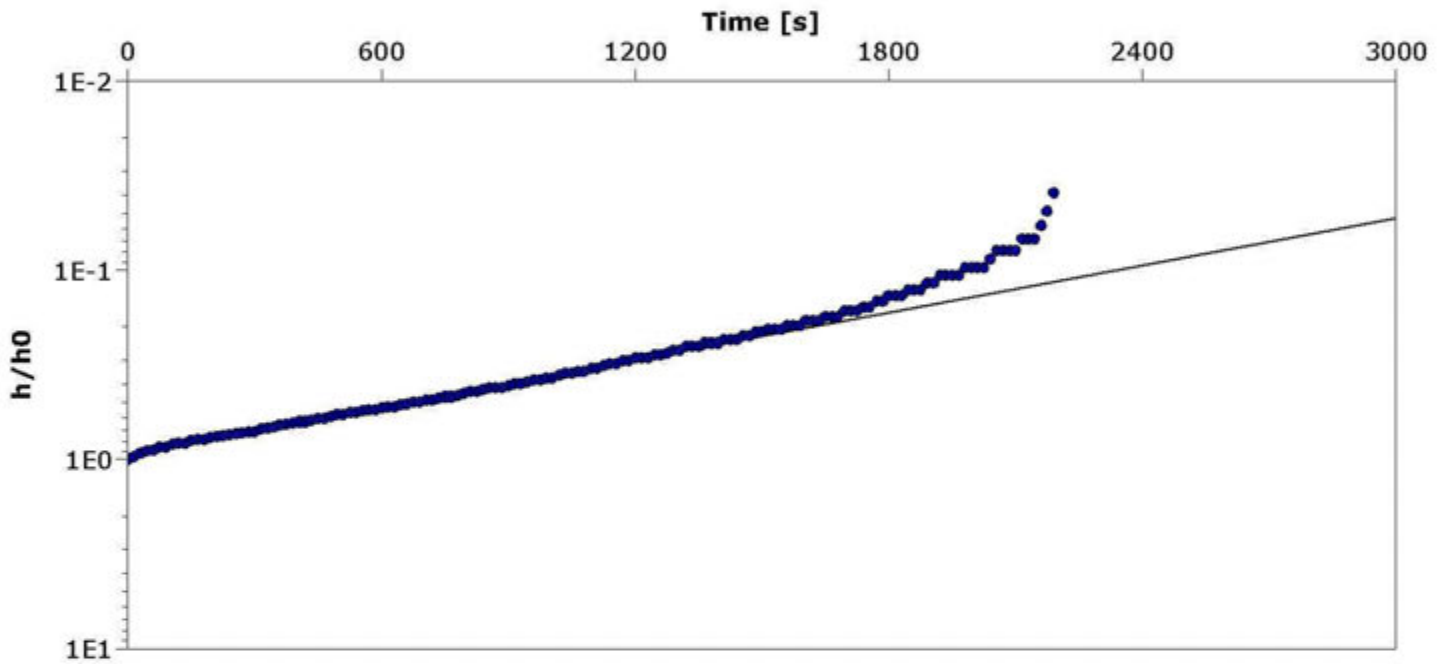
Test Date: 5/4/2016

Analysis Performed by: Kevin Cucura

MW-7D Slug Out

Analysis Date: 6/13/2016

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-7D	4.94×10^{-4}

Slug Test Analysis Worksheet

Project: Lewis Brothers Garage Property
Project #: 27058
Analyzed By: Kevin Cucura
Analysis Date: 06/13/2016
Test Date: 05/03/2016
Well #: MW-10D
Test ID: MW-10D Slug Out

Slug Info

Size: 3" X 4'
Slug Volume (Vslug) = $\pi r^2 L$
Vslug = $(3.14)(1.5")^2 (48) = 339.12 \text{ in}^3$

Expected Displacement in 4" well (H^*o) = $V\text{slug} / \pi \text{ casing radius } (r_{\text{casing}})^2$

$H^*o = (339.12 \text{ in}^3) / (3.14) (2")^2 = 27"$ or 2.25'

Screen Radius (R) = 0.167'

Screen Length (L) = 24.0'

Saturated Thickness (b) = 120.22' (Total Depth minus Static Water Level)

Casing Radius (r) = 0.167'

Borehole Radius (B) = 0.31'

Static Water Level = 65.78' (measured in the field from top of casing)

Total Depth = 186.00' (measured in the field from top of casing)

Level @ Time 0 (T_o) = 67.85'

Slug Size = 3" X 4'

$H^*o = 2.25'$

Actual Displacement (H_o) = 2.07'

Notes: No issues.

$K = 1.98 \times 10^{-5}$ (ft/min)
 $K = 1.00 \times 10^{-5}$ (cm/sec)

Pennsylvania Tectonics, Inc.
 723 Main Street
 Archbald, PA 18403
 (570) 487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage Property

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-10D Slug Out

Test Well: MW-10D

Test Conducted by: Kevin Cucura

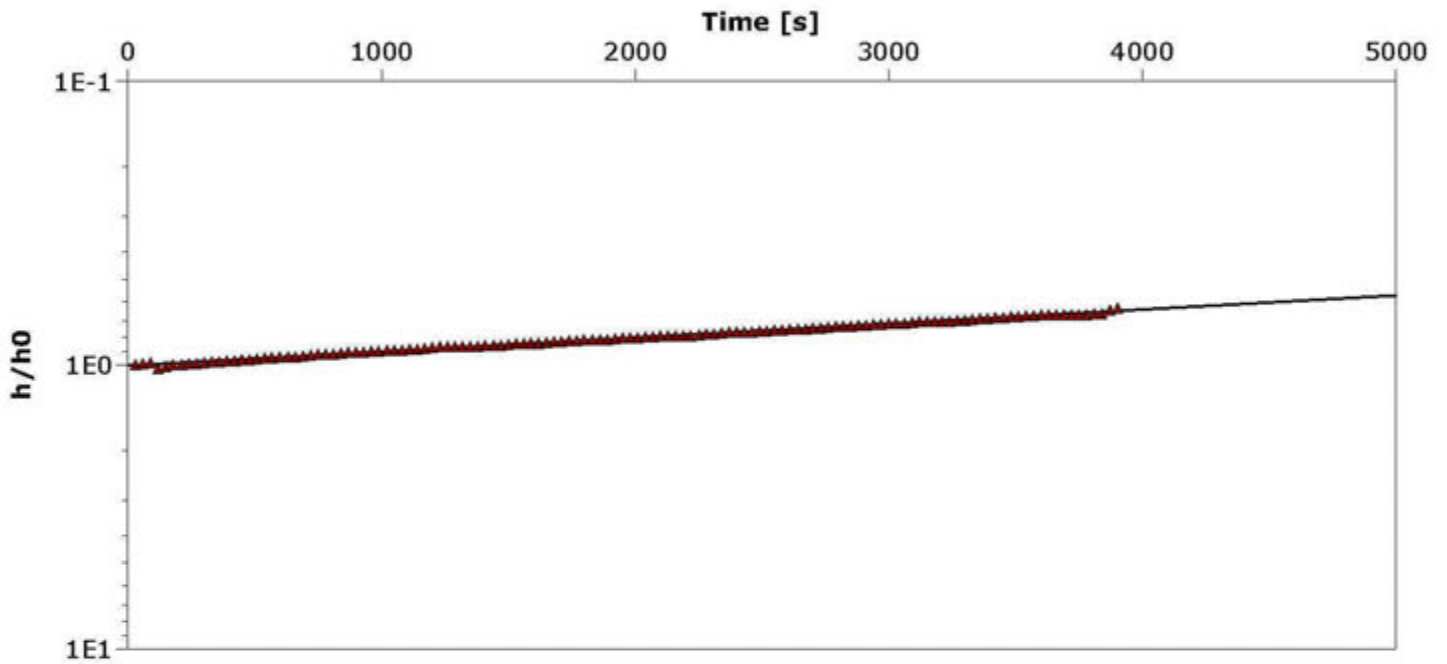
Test Date: 5/3/2016

Analysis Performed by: Kevin Cucura

MW-10D Slug Out

Analysis Date: 6/13/2016

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-10D	1.98×10^{-5}

Slug Test Analysis Worksheet

Project: Lewis Brothers Garage Property
Project #: 27058
Analyzed By: Kevin Cucura
Analysis Date: 06/13/2016
Test Date: 05/03/2016
Well #: MW-11D
Test ID: MW-11D Slug Out

Slug Info

Size: 3" X 4'
Slug Volume (Vslug) = $\pi r^2 L$
Vslug = $(3.14)(1.5")^2 (48) = 339.12 \text{ in}^3$

Expected Displacement in 4" well (H^*o) = $V\text{slug} / \pi \text{ casing radius } (r_{\text{casing}})^2$

$H^*o = (339.12 \text{ in}^3) / (3.14) (2")^2 = 27"$ or 2.25'

Screen Radius (R) = 0.167'

Screen Length (L) = 23.0'

Saturated Thickness (b) = 55.79' (Total Depth minus Static Water Level)

Casing Radius (r) = 0.167'

Borehole Radius (B) = 0.31'

Static Water Level = 72.21' (measured in the field from top of casing)

Total Depth = 128.00' (measured in the field from top of casing)

Level @ Time 0 (T_o) = 74.40'

Slug Size = 3" X 4'

$H^*o = 2.25'$

Actual Displacement (H_o) = 2.19'

Notes: No issues.

$K = 1.04 \times 10^{-3}$ (ft/min)
 $K = 5.30 \times 10^{-4}$ (cm/sec)

Pennsylvania Tectonics, Inc.
 723 Main Street
 Archbald, PA 18403
 (570) 487-1959

Slug Test Analysis Report

Project: Lewis Brothers Garage Property

Number: 27058

Client: Ms. Ruth Lewis

Location: Scott Township, PA

Slug Test: MW-11D Slug Out

Test Well: MW-11D

Test Conducted by: Kevin Cucura

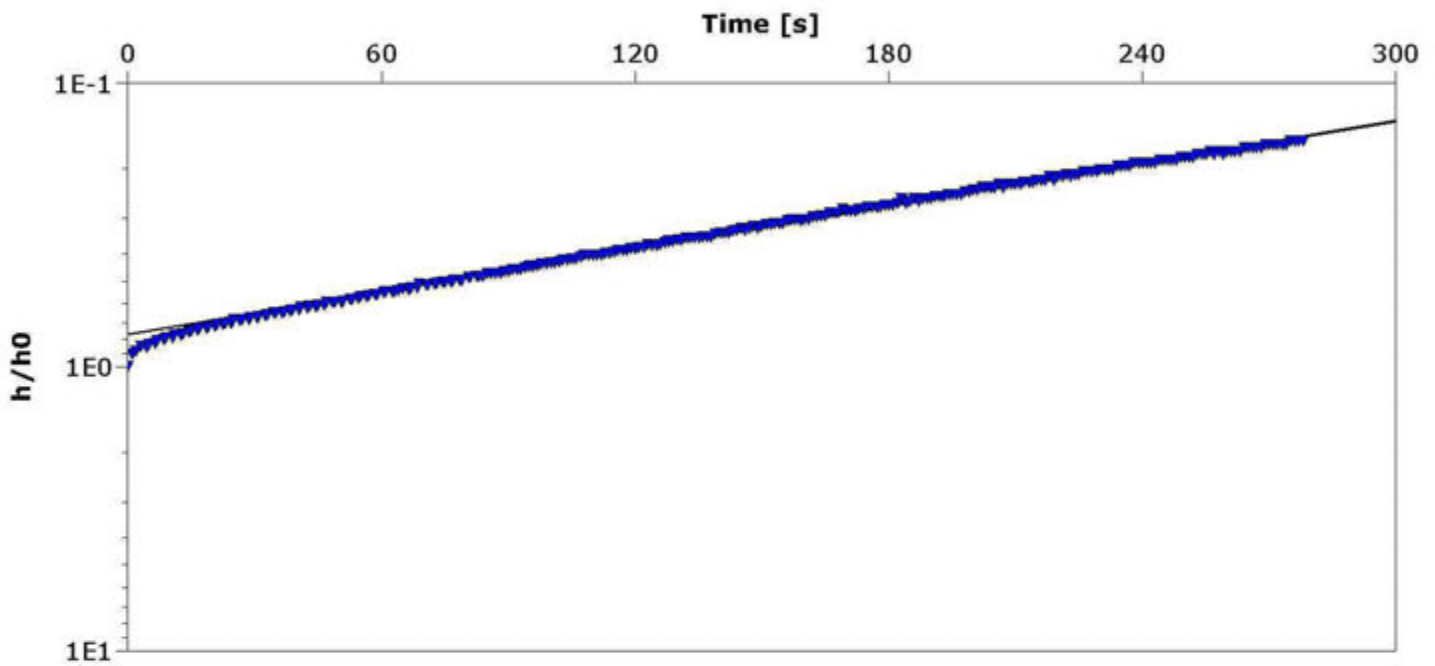
Test Date: 5/3/2016

Analysis Performed by: Kevin Cucura

MW-11D Slug Out

Analysis Date: 6/13/2016

Aquifer Thickness:



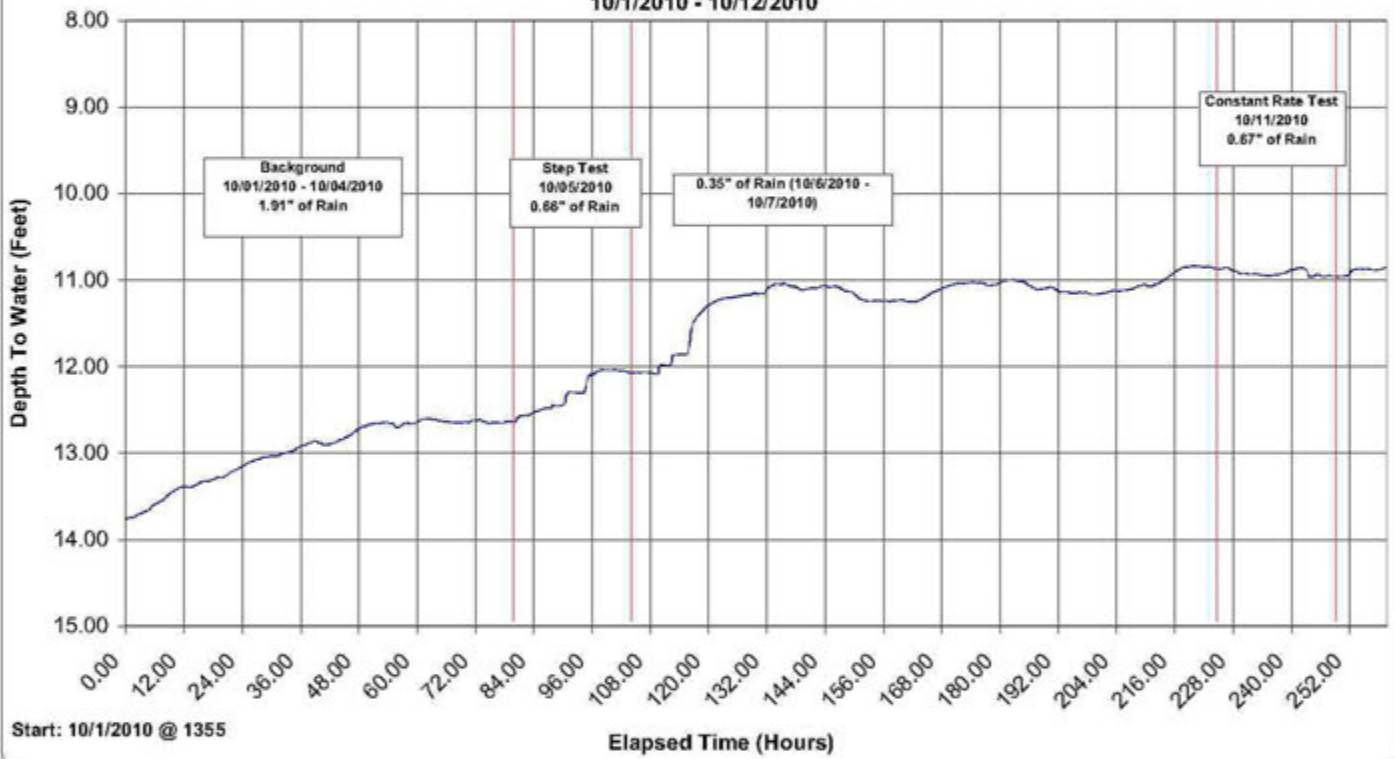
Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [ft/min]
MW-11D	1.04×10^{-3}

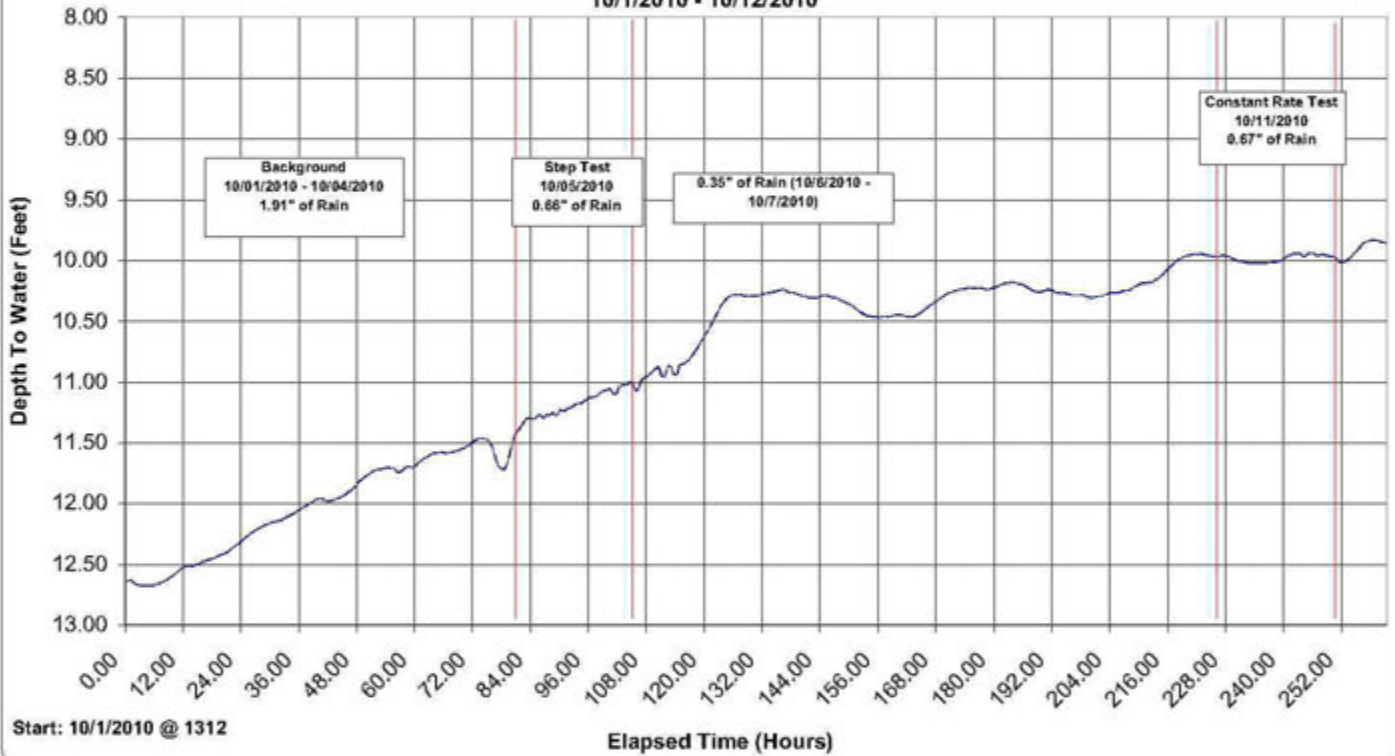
APPENDIX V-2

Aquifer Testing Background Data

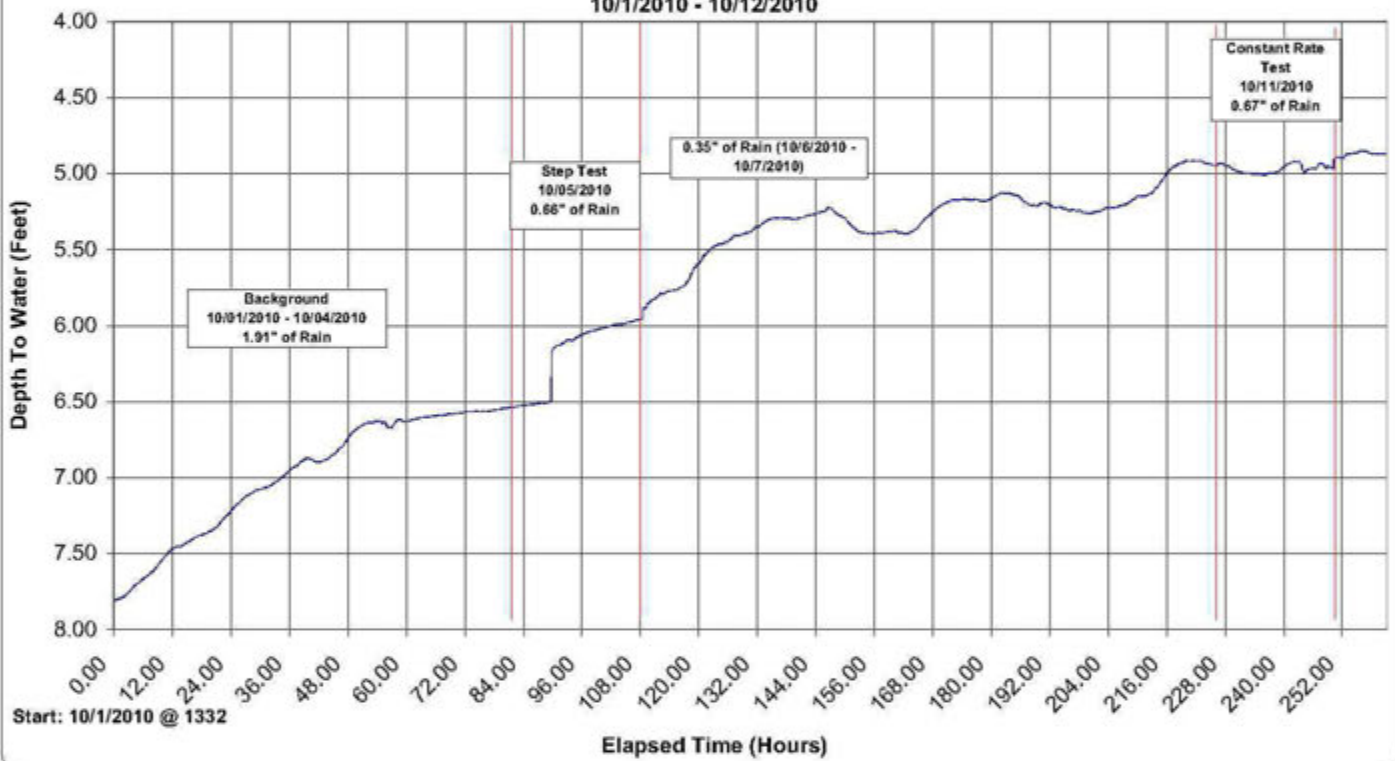
MW-4s
Depth To Water
10/1/2010 - 10/12/2010



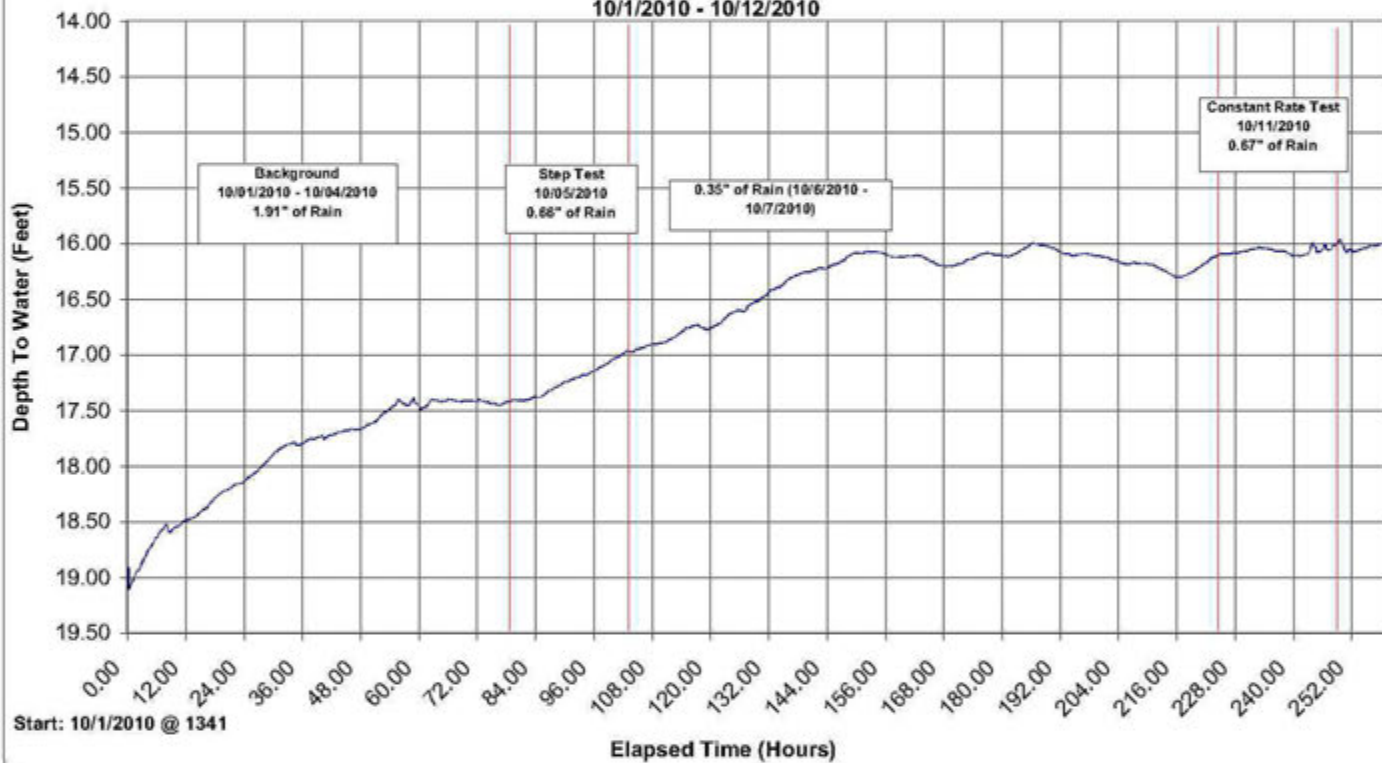
MW-10s
Depth To Water
10/1/2010 - 10/12/2010



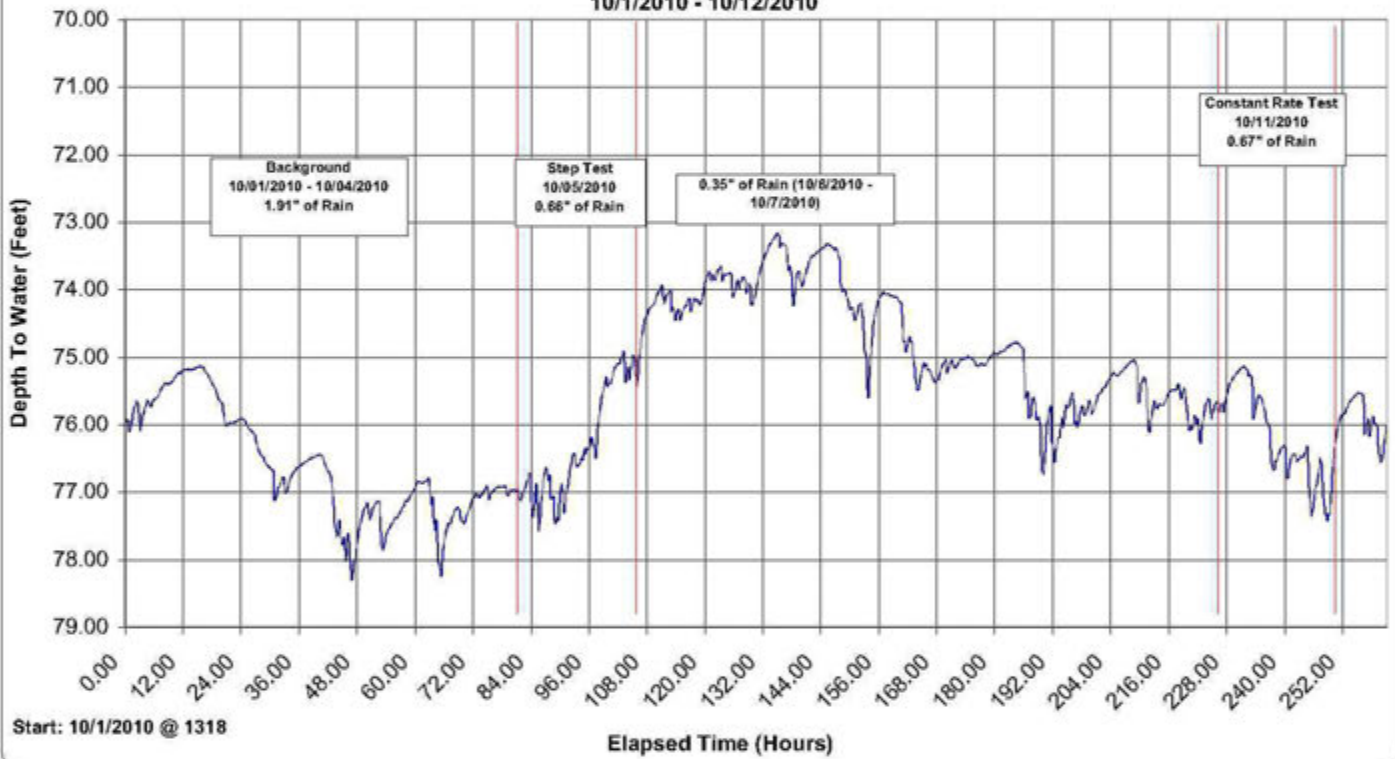
MW-11s
Depth To Water
10/1/2010 - 10/12/2010



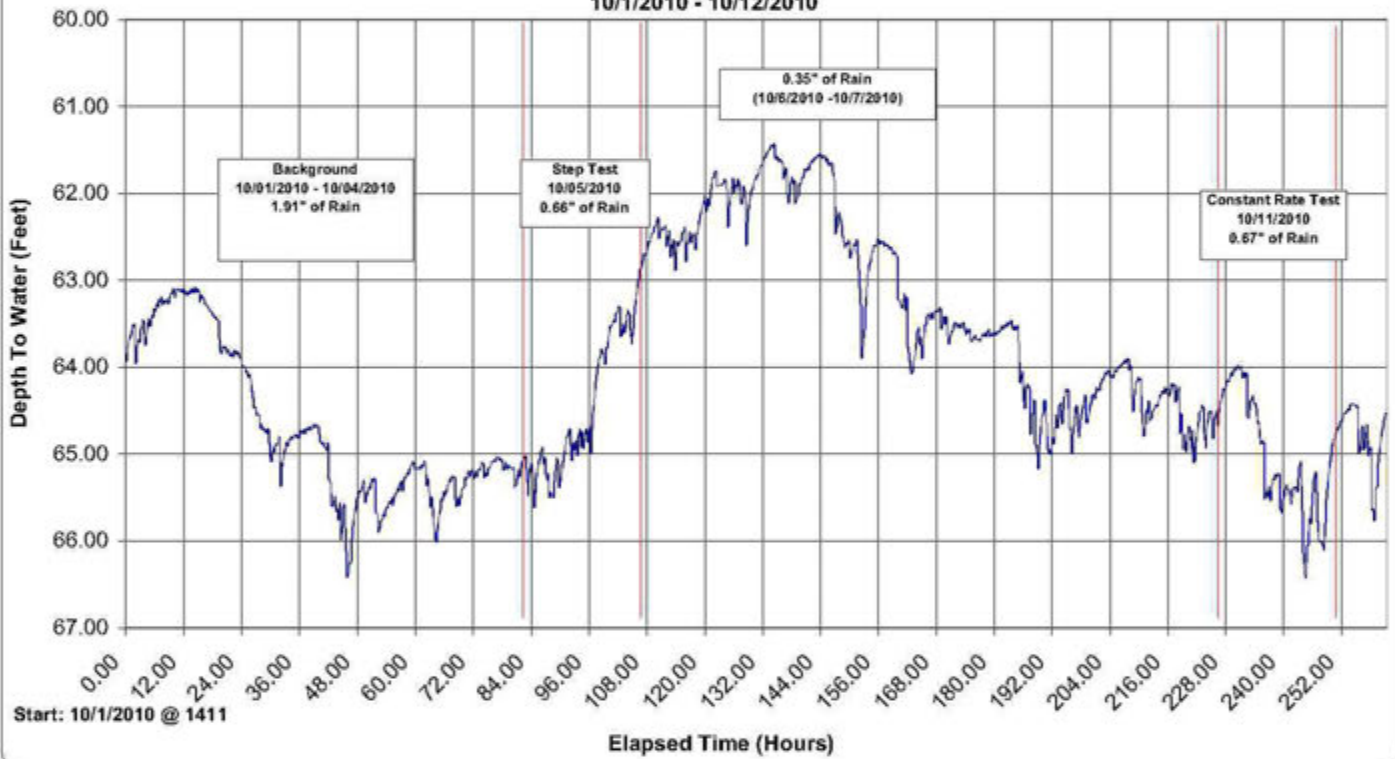
MW-2D
Depth To Water
10/1/2010 - 10/12/2010



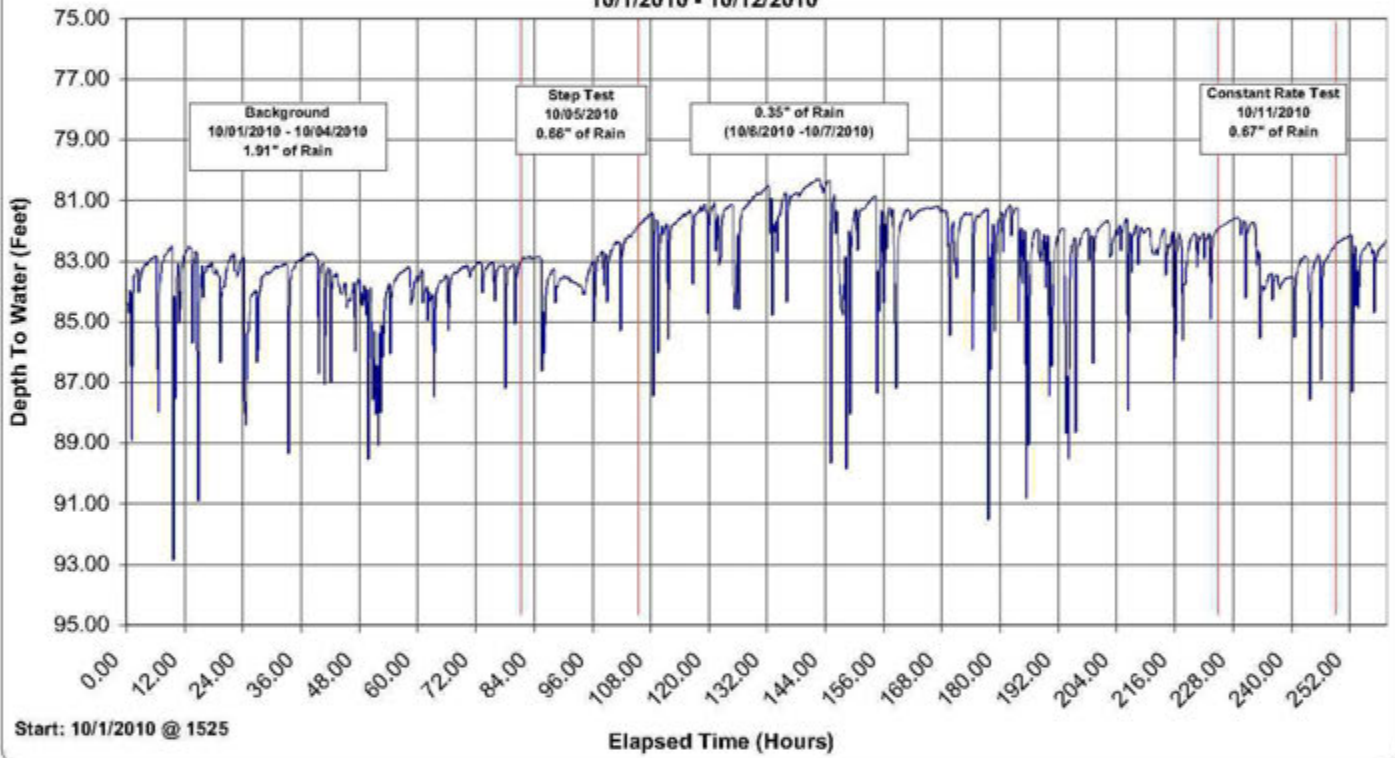
MW-10D
Depth To Water
10/1/2010 - 10/12/2010



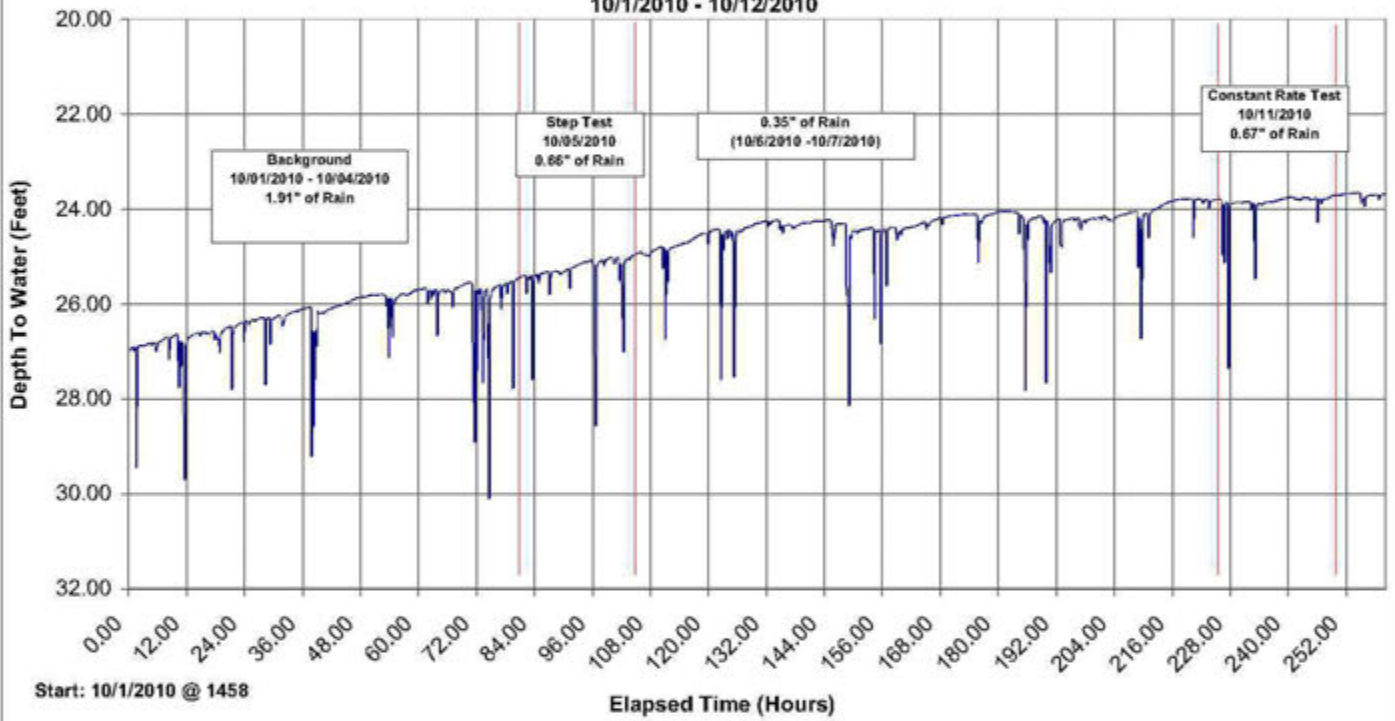
MW-12D
Depth To Water
10/1/2010 - 10/12/2010



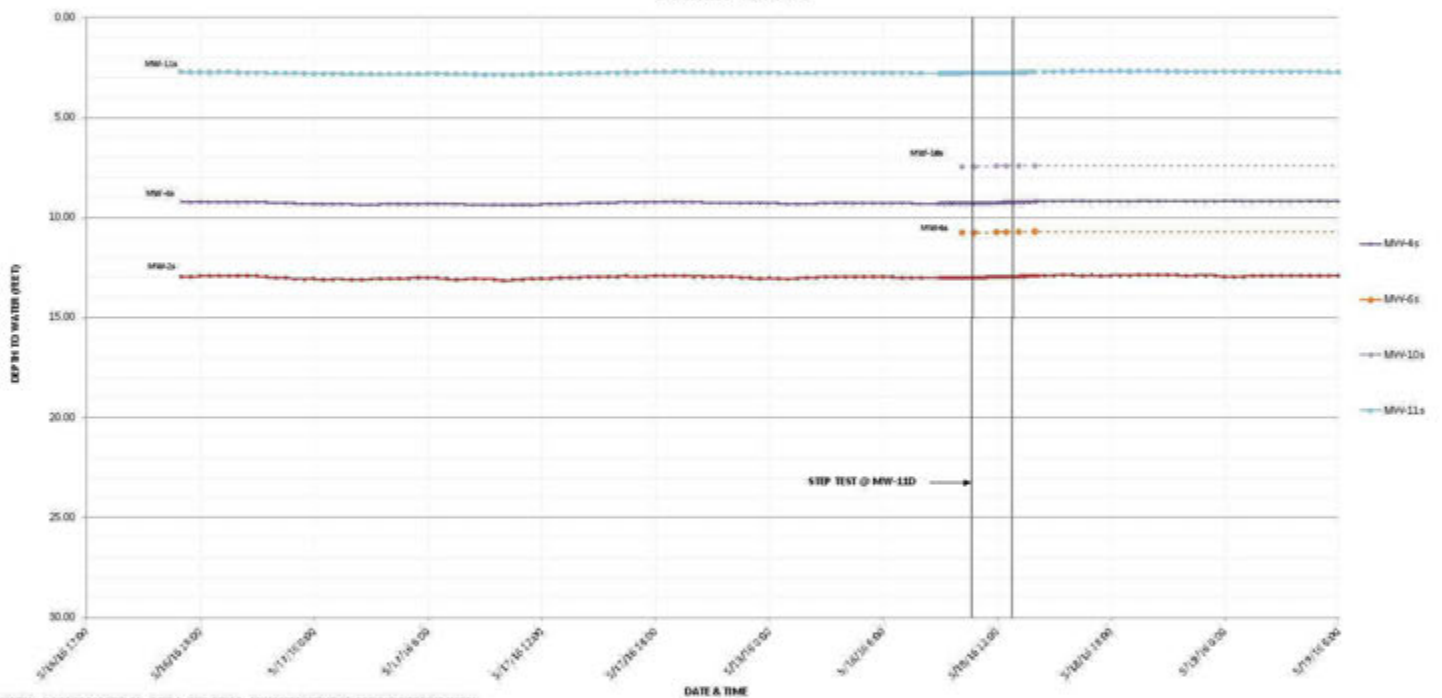
Fryzel Well
Depth To Water
10/1/2010 - 10/12/2010



**Strong Well
Depth To Water
10/1/2010 - 10/12/2010**



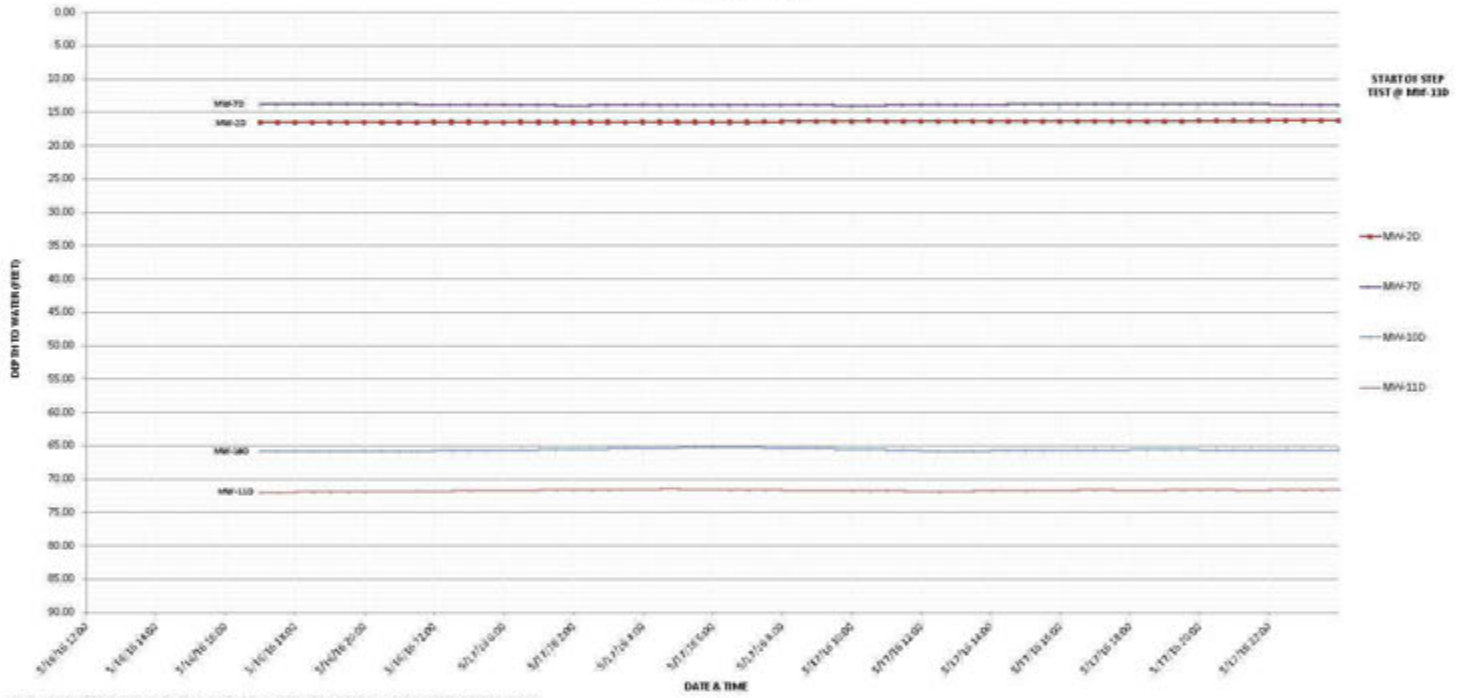
SHALLOW GROUNDWATER MONITORING WELLS
 DEPTH TO WATER - BACKGROUND
 05/15/2015 - 05/19/2015



NOTES: DATA FROM MW-11a, MW-6a AND MW-10a COLLECTED UTILIZING PRESSURE TRANSDUCERS

DATA COLLECTED FROM MW-3a AND MW-4a COLLECTED BY HAND DURING THE STEP TEST AT MW-11D

**BEOROCK GROUNDWATER MONITORING WELLS
DEPTH TO WATER - BACKGROUND
05/15/2015 - 05/25/2015**



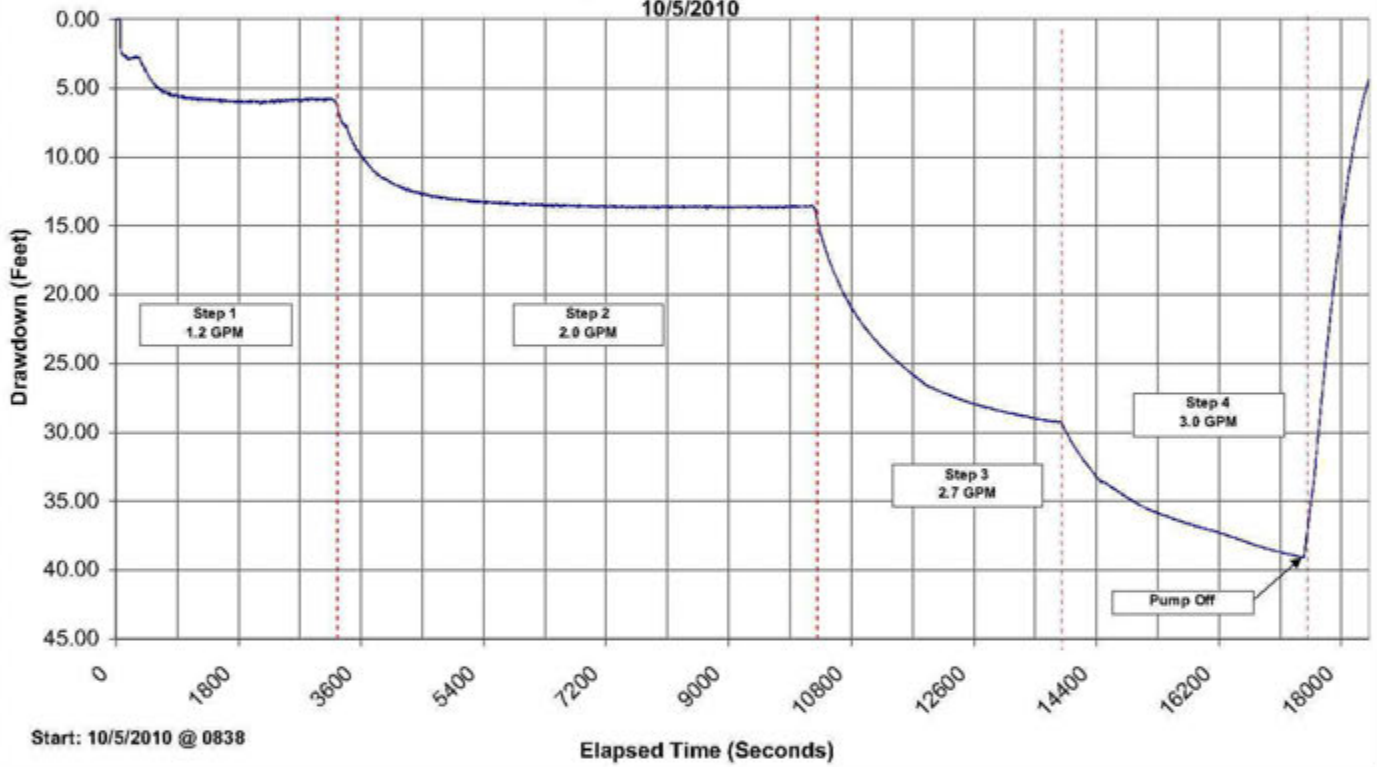
NOTE: DATA FROM MW-20, MW-70, MW-300 AND MW-110 COLLECTED USING PRESSURE TRANSDUCERS

APPENDIX V-3

MW-11D Step Test Documentation

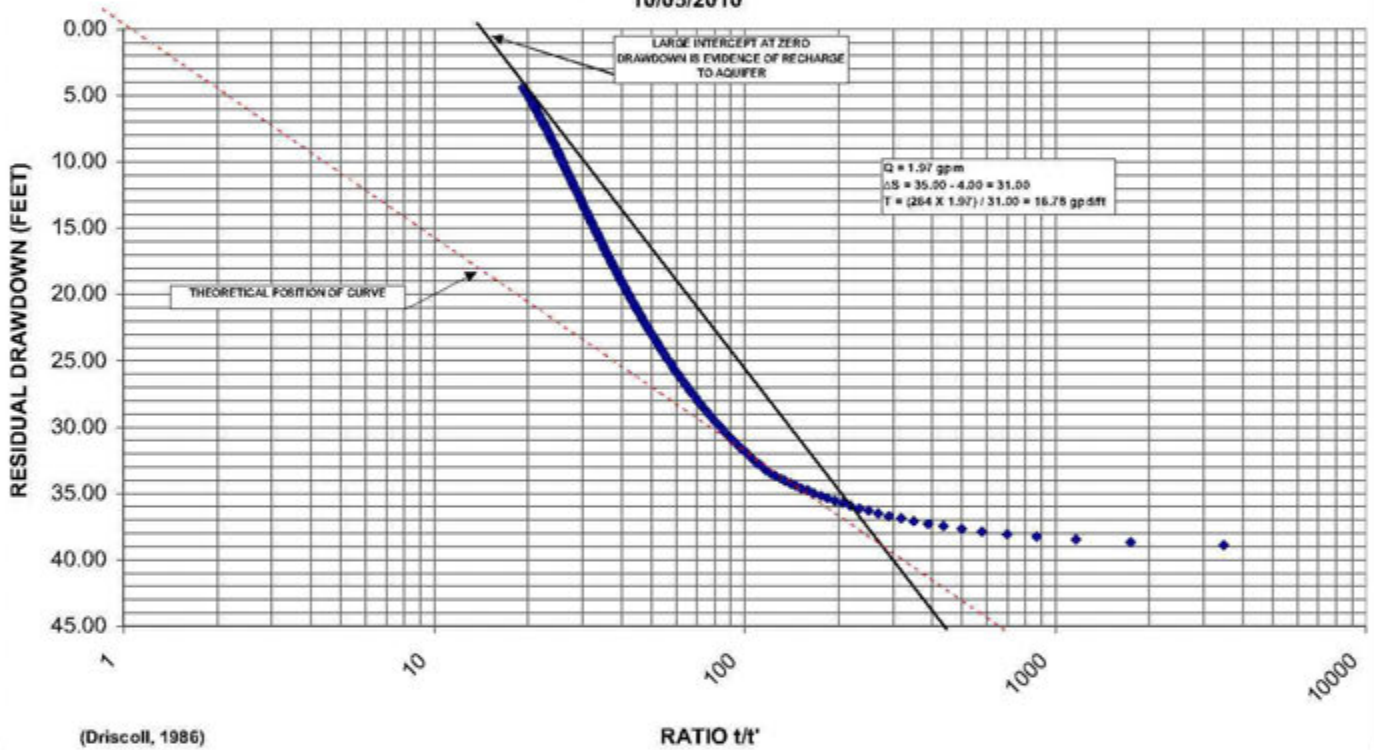
October 5, 2010

MW-11D
Step Test - Drawdown Data
10/5/2010



Start: 10/5/2010 @ 0838

MW-11D
Step Test - Recovery vs. Time
10/05/2010

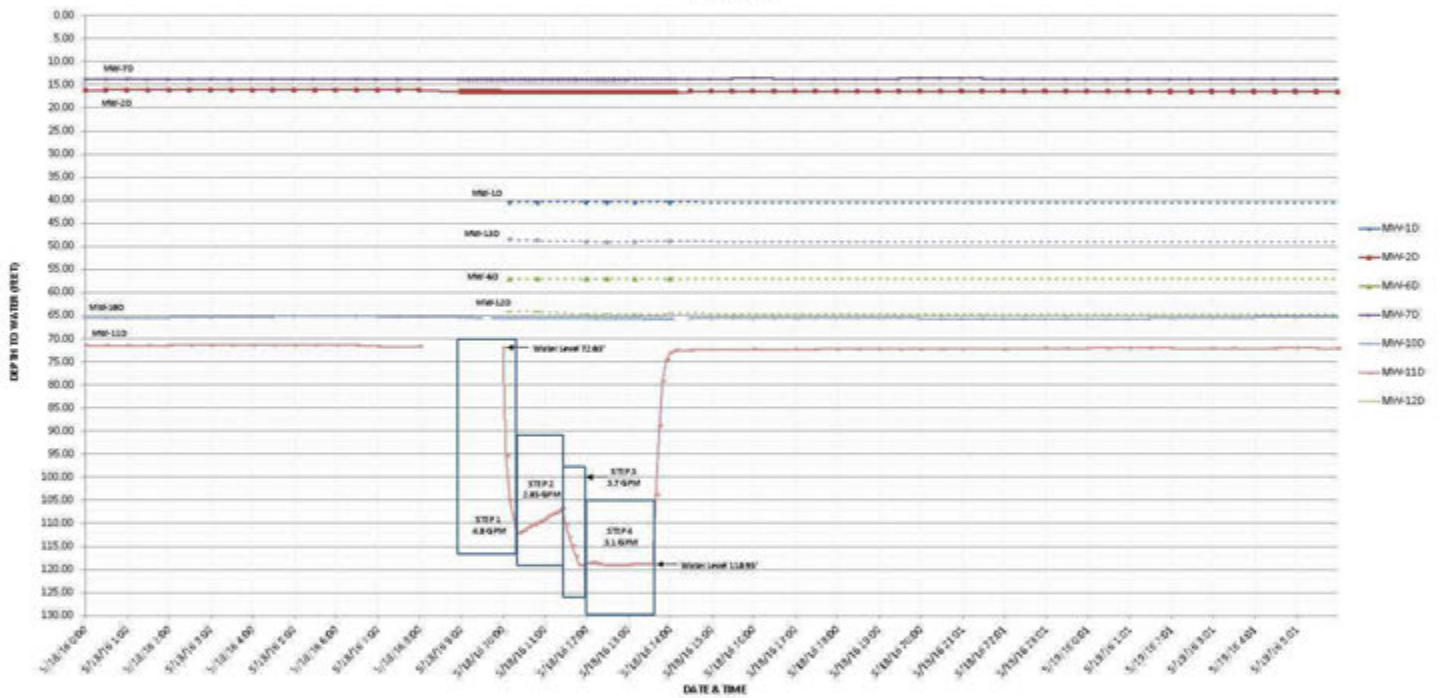


APPENDIX V-4

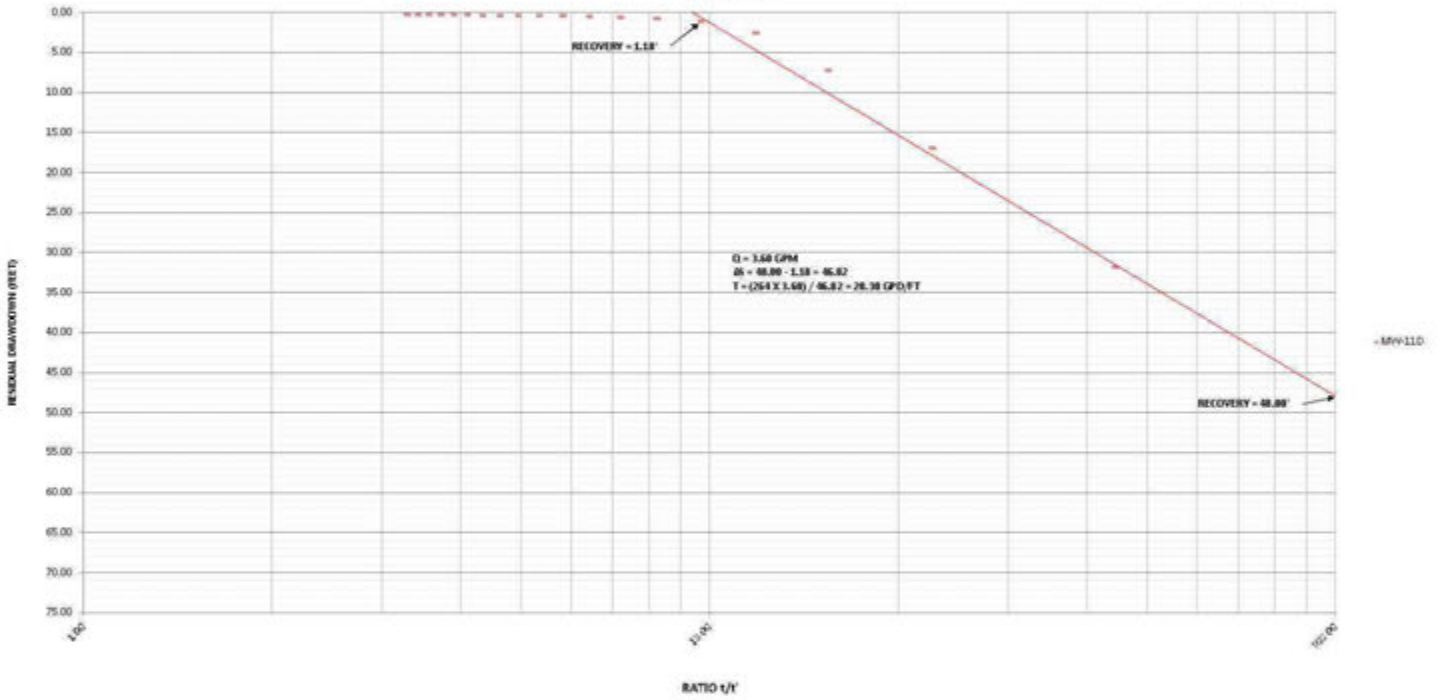
MW-11D Step Test Documentation

May 18, 2016

**BEDROCK GROUNDWATER MONITORING WELLS
DEPTH TO WATER - STEP TEST MW-11D
05/18/2016**



MW-110
STEP TEST - RECOVERY VS. TIME
06/18/2015

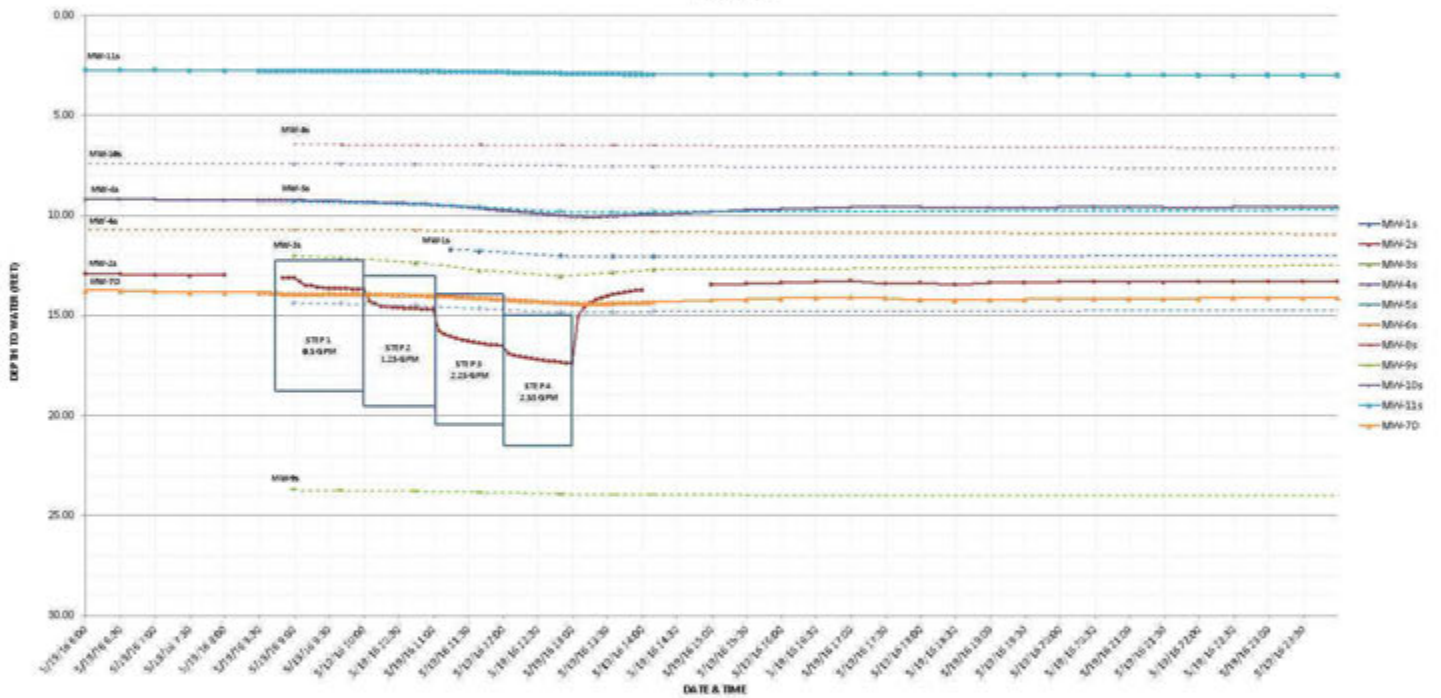


APPENDIX V-5

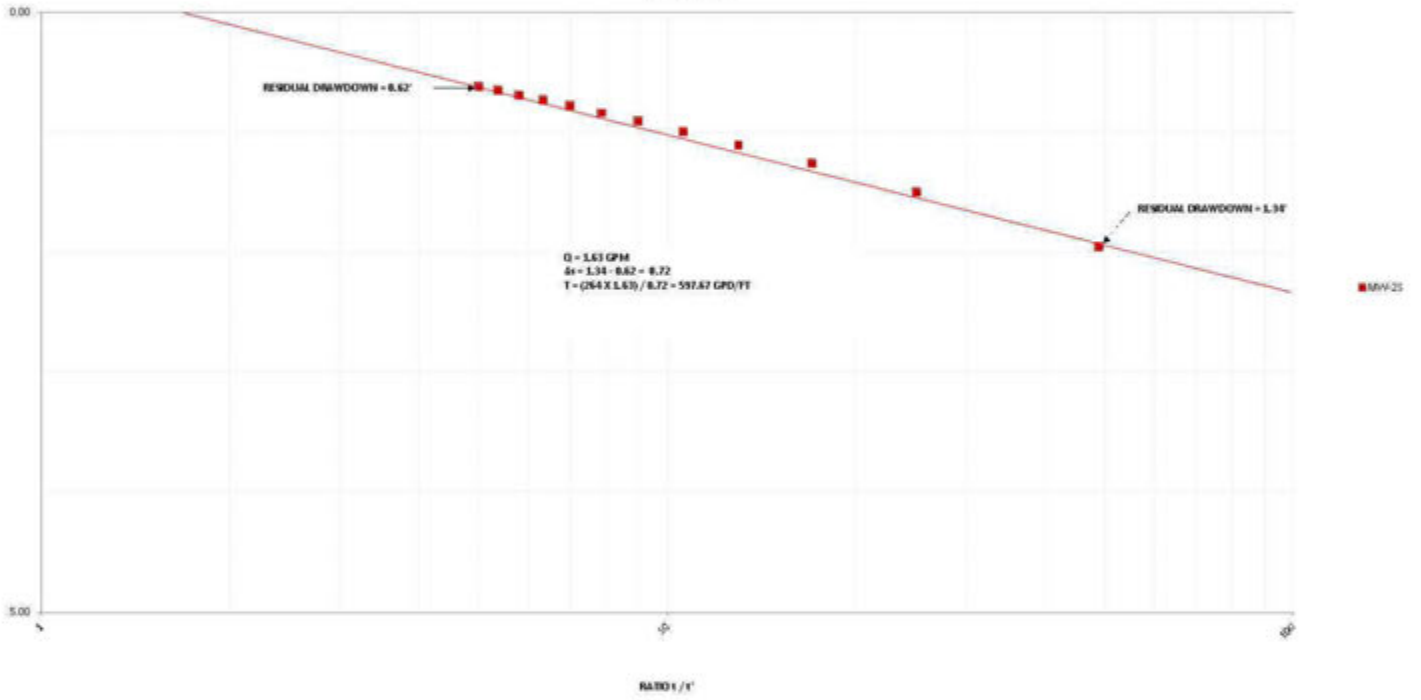
MW-2s Step Test Documentation

May 19, 2016

SHALLOW GROUNDWATER MONITORING WELLS
 DEPTH TO WATER - STEP TEST @ MW-2s
 05/19/2016



MW-25
STEP TEST - RECOVERY VS. TIME
05/19/2016

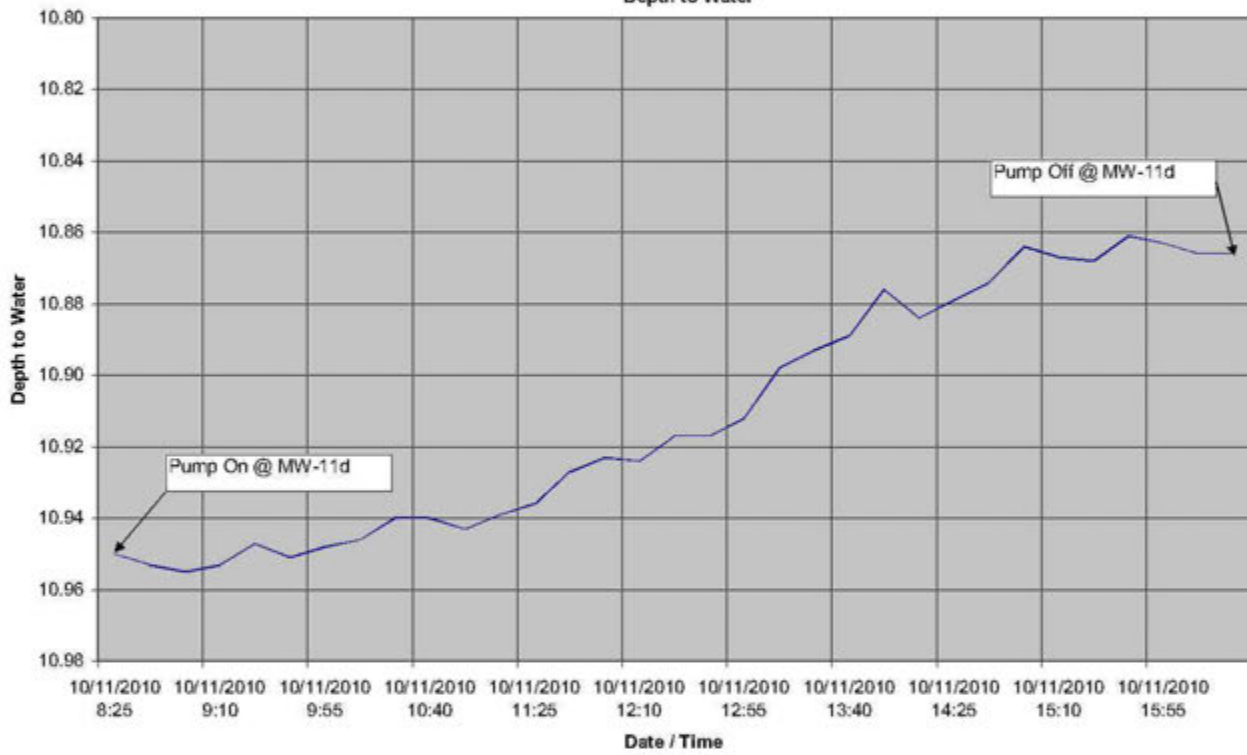


APPENDIX V-6

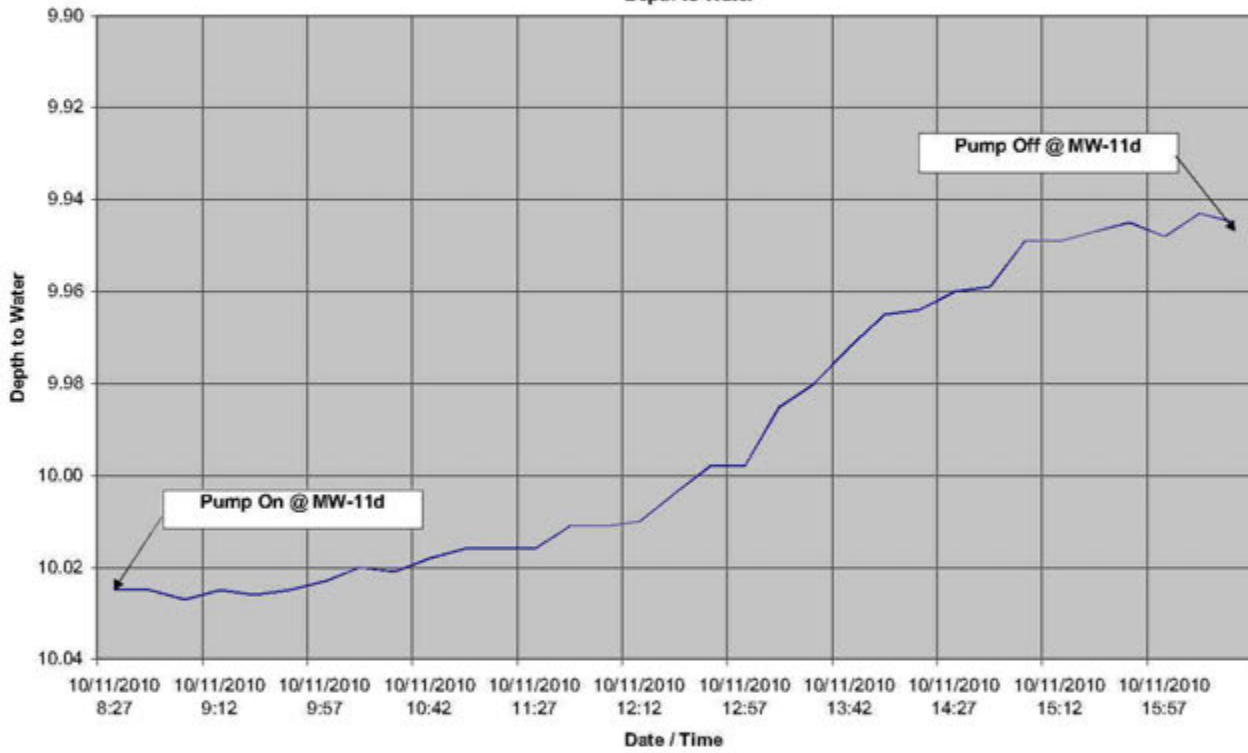
MW-11D Constant Rate Pumping Test Documentation

October 11, 2010

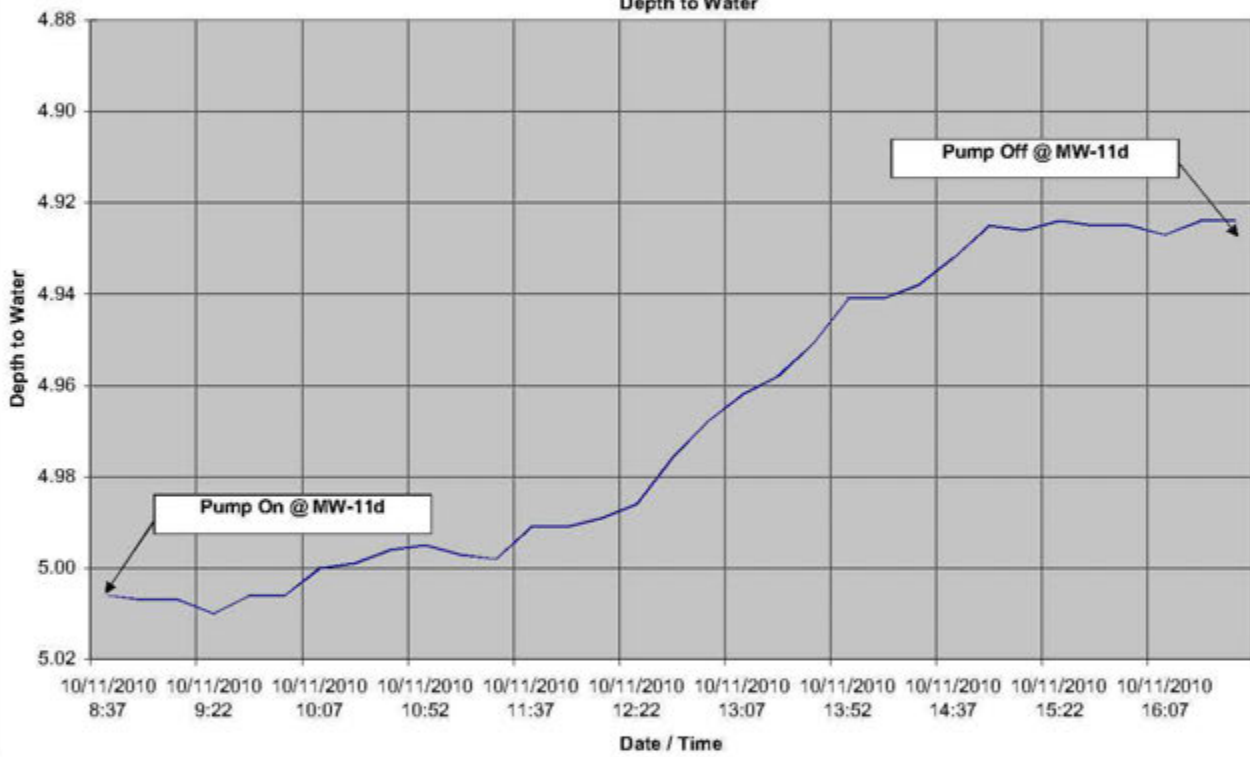
MW-4s
10/11/2010 - Duration of Pumping Test
Depth to Water



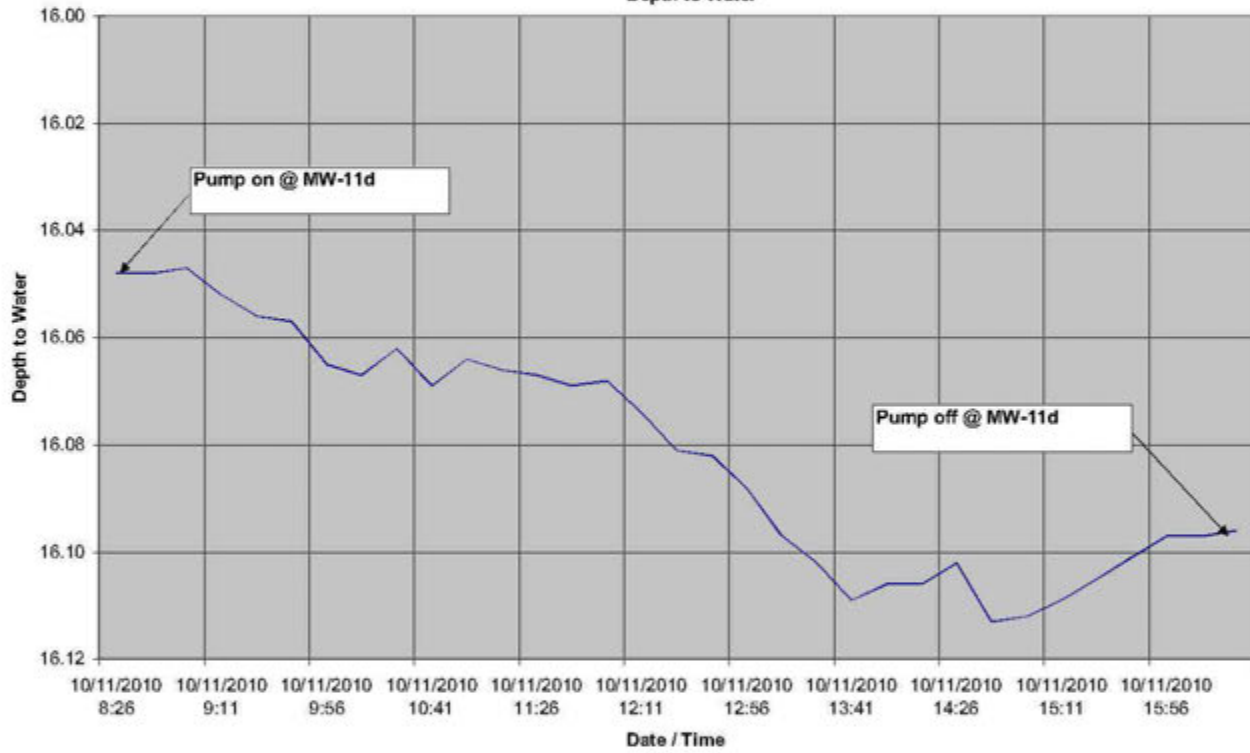
MW-10s
10/11/2010 - Duration of Pumping Test
Depth to Water



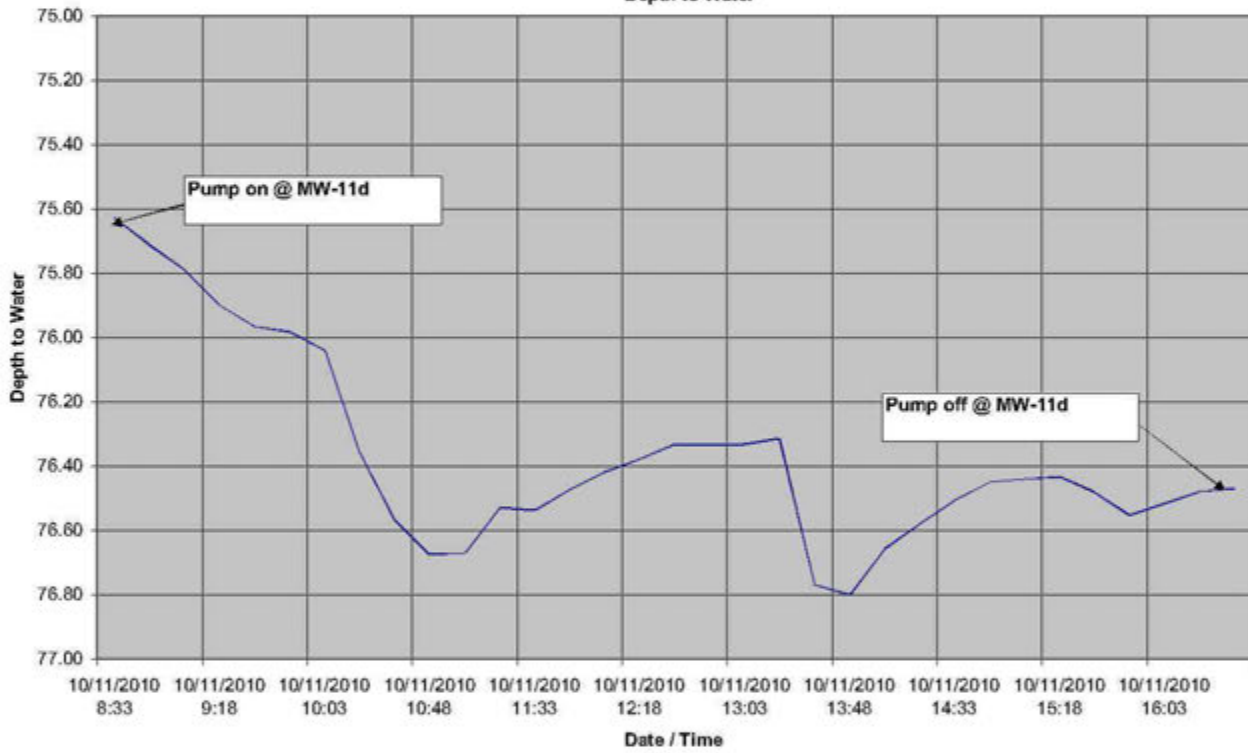
MW-11s
10/11/2010 - Duration of Pumping Test
Depth to Water



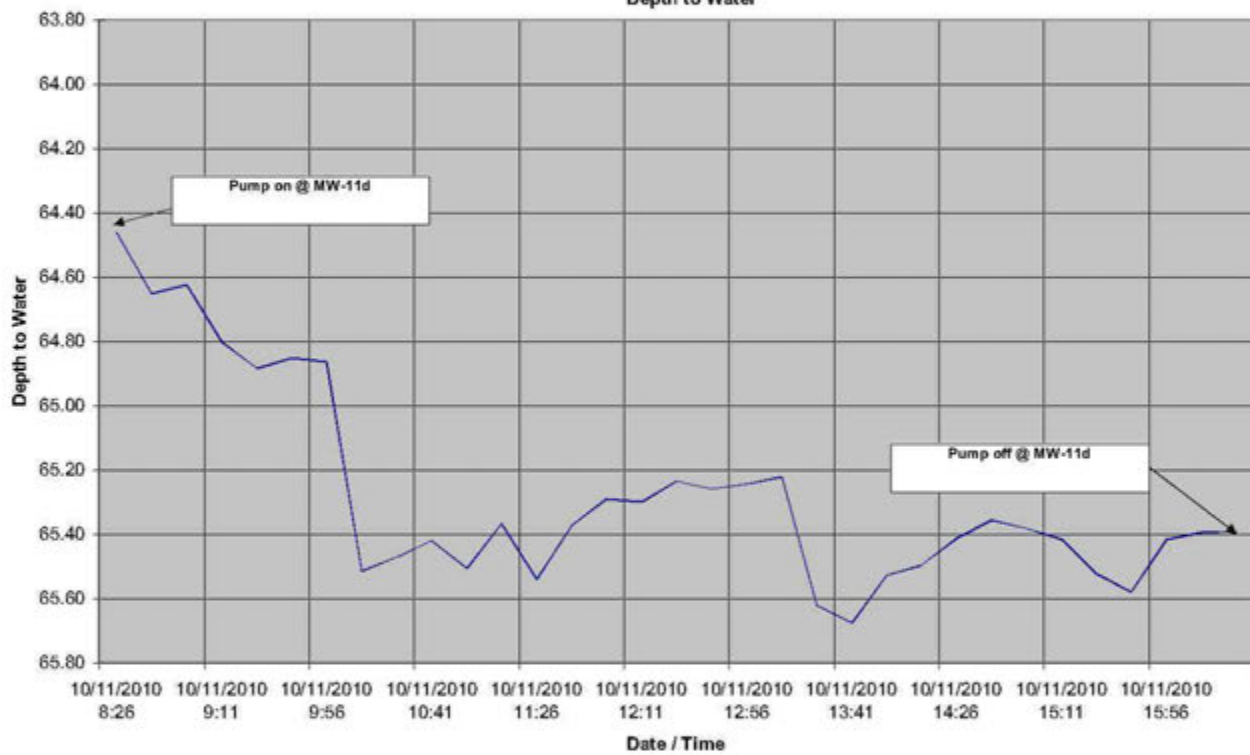
MW-2D
10/11/2010 - Duration of Pumping Test
Depth to Water



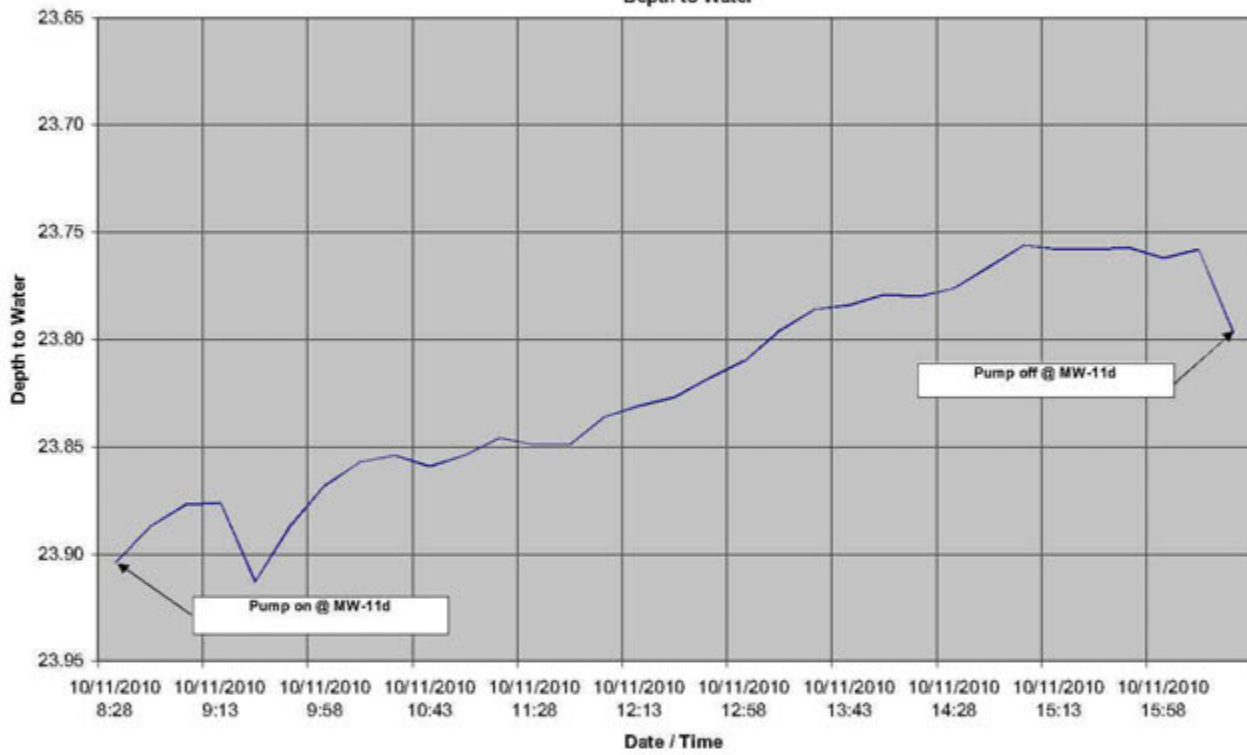
MW-10D
10/11/2010 - Duration of Pumping Test
Depth to Water



MW-12D
10/11/2010 - Duration of Pumping Test
Depth to Water



Strong Well
10/11/2010 - Duration of Pumping Test
Depth to Water



Determination of Transmissivity at the Pumping Well

Constant Rate Pumping – October 11, 2010 (MW-11D)

Transmissivity (T) is defined as the rate at which water flows through a vertical strip of the aquifer one-foot or one-meter wide and extending through the full saturated thickness, under a hydraulic gradient of 1 (Driscoll 1989). Storativity (S), or the Coefficient of Storage, represents the volume of water released from storage, or taken into storage, per unit of aquifer storage area per unit change in head (Driscoll 1989). For transmissivity at the pumping well, the Cooper & Jacob Solution was utilized. The Cooper and Jacob Solution (Time-Drawdown Method) is based on the following equation:

$$T = [264Q] / \Delta s$$

Where; Q = Discharge Rate (2.5 gpm)

Δs = Change in Drawdown Over One Log Cycle (determined graphically)

T = Transmissivity

The Cooper and Jacob Solution assumes the following:

- The aquifer is confined and has an “apparent” infinite extent;
- The aquifer is homogeneous, isotropic and of uniform thickness over the area influenced by the pumping;
- The piezometric surface was horizontal prior to pumping;
- The well is pumped at a constant rate;
- The well is fully penetrating;
- Water removed from storage is discharged instantaneously with decline in head;
- The well diameter is small, so well storage is negligible;
- The values of u are small (i.e. < 0.01).

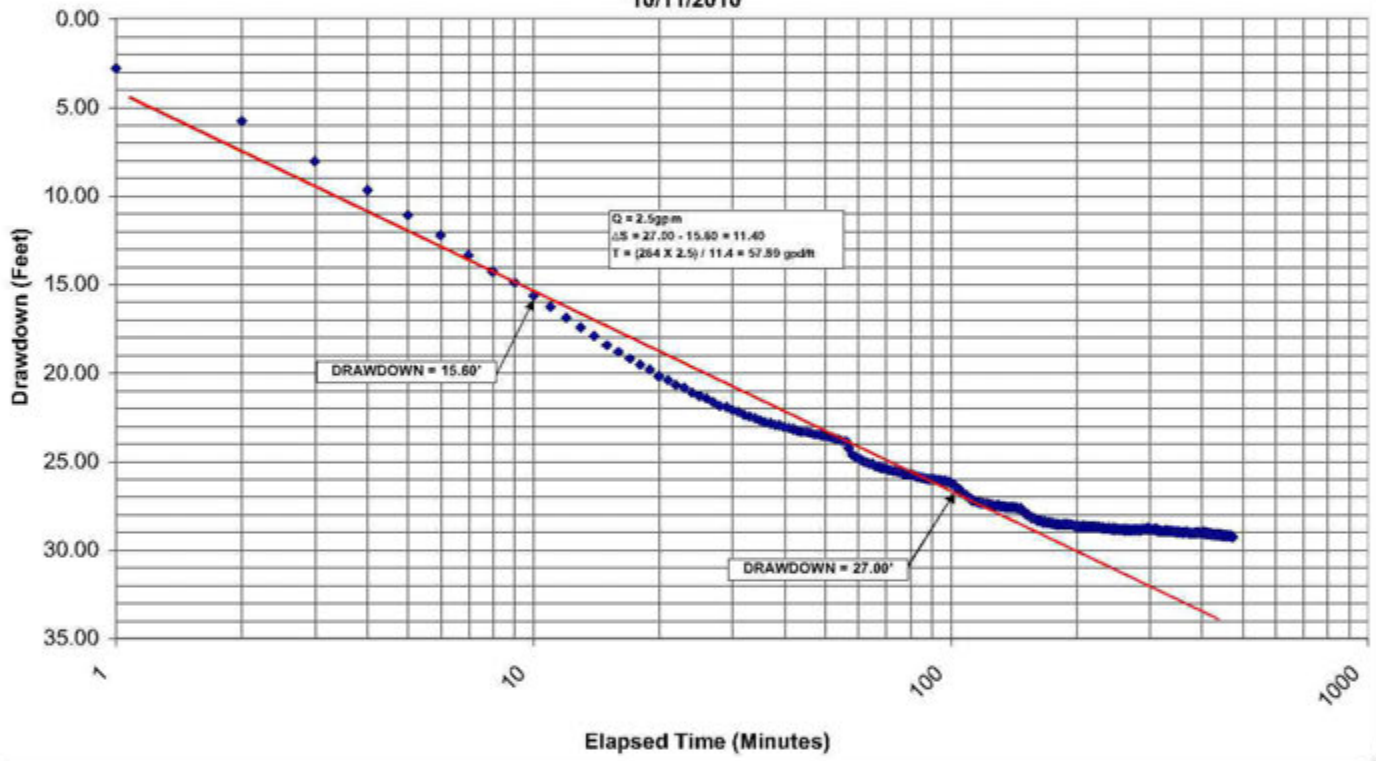
The determination of Transmissivity (T) was calculated utilizing the drawdown and recovery data collected from the pumping well during constant rate pumping test. The Transmissivity (T) values calculated are as follows:

$$T = 57.89 \text{ gpd/ft. (drawdown data)}$$

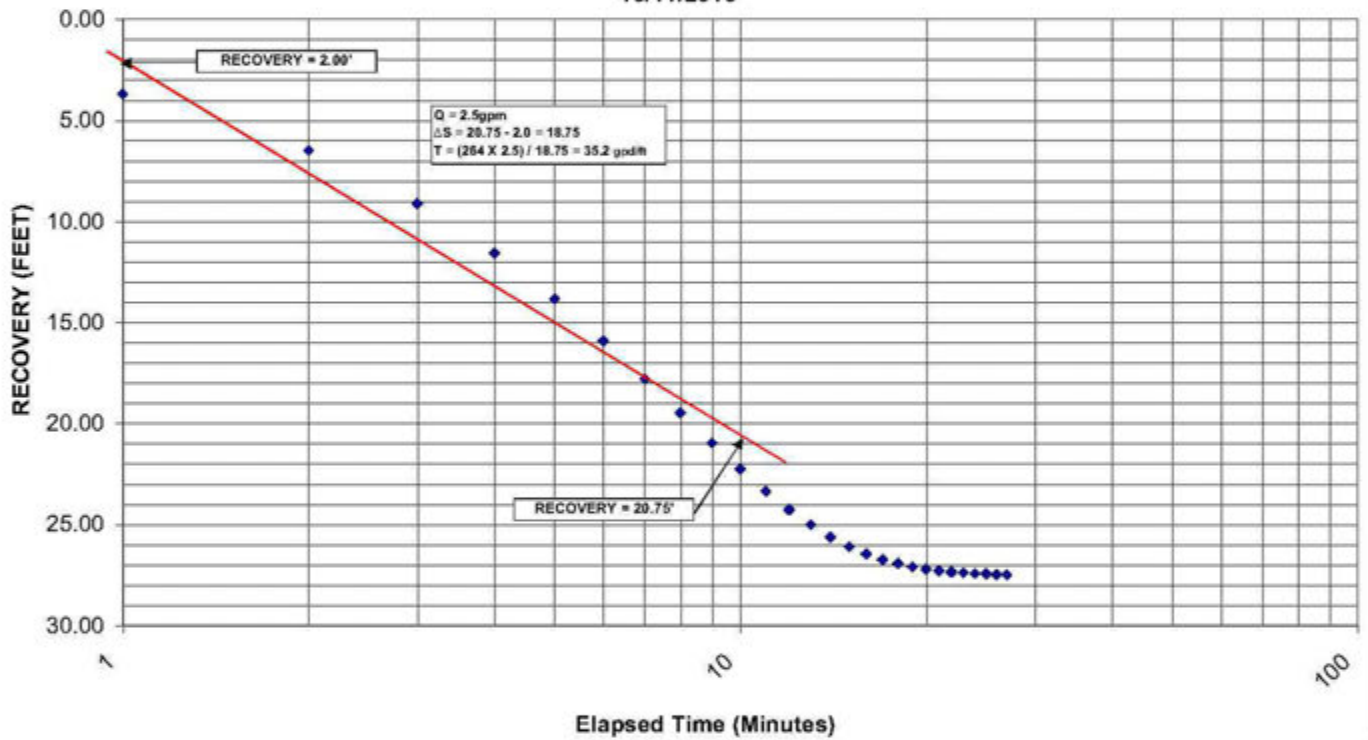
$$T = 35.2 \text{ gpd/ft. (recovery data)}$$

$$T (\text{avg.}) = 46.55 \text{ gpd/ft. (average T from pumping well data)}$$

MW-11D
Constant Rate Pump Test - Drawdown vs. Time
10/11/2010



MW-11D
Constant Rate Pump Test - Recovery vs. Time
10/11/2010



Determination of Hydraulic Conductivity at the Pumping Well

Constant Rate Pumping Test – October 11, 2010 (MW-11D)

Hydraulic Conductivity (K) is defined as the capacity of a porous medium to transmit water. Specifically, K is the discharge that occurs through a one square foot unit section of aquifer under a hydraulic gradient of 1 (Driscoll 1989). The hydraulic conductivity of an aquifer can be estimated based on the relationship between transmissivity (T) and the saturated thickness of the aquifer (b), as $K = T/b$. The input data for (b) was 9 feet, which was based on the saturated thickness of the aquifer at the pumping well (i.e. the 112.0 foot to 121.0 foot interval that expressed potential water bearing fractures during the drilling). The Hydraulic Conductivity (K) is as follows:

$$K = T/b = 46.55 \text{ gpd/ft.} / 9.0 \text{ ft.} = 5.17 \text{ gpd/ft}^2 = 2.44 \times 10^{-4} \text{ cm/sec}$$

(K value for MW-11D determined via slug test is 4.90×10^{-4} cm/sec)

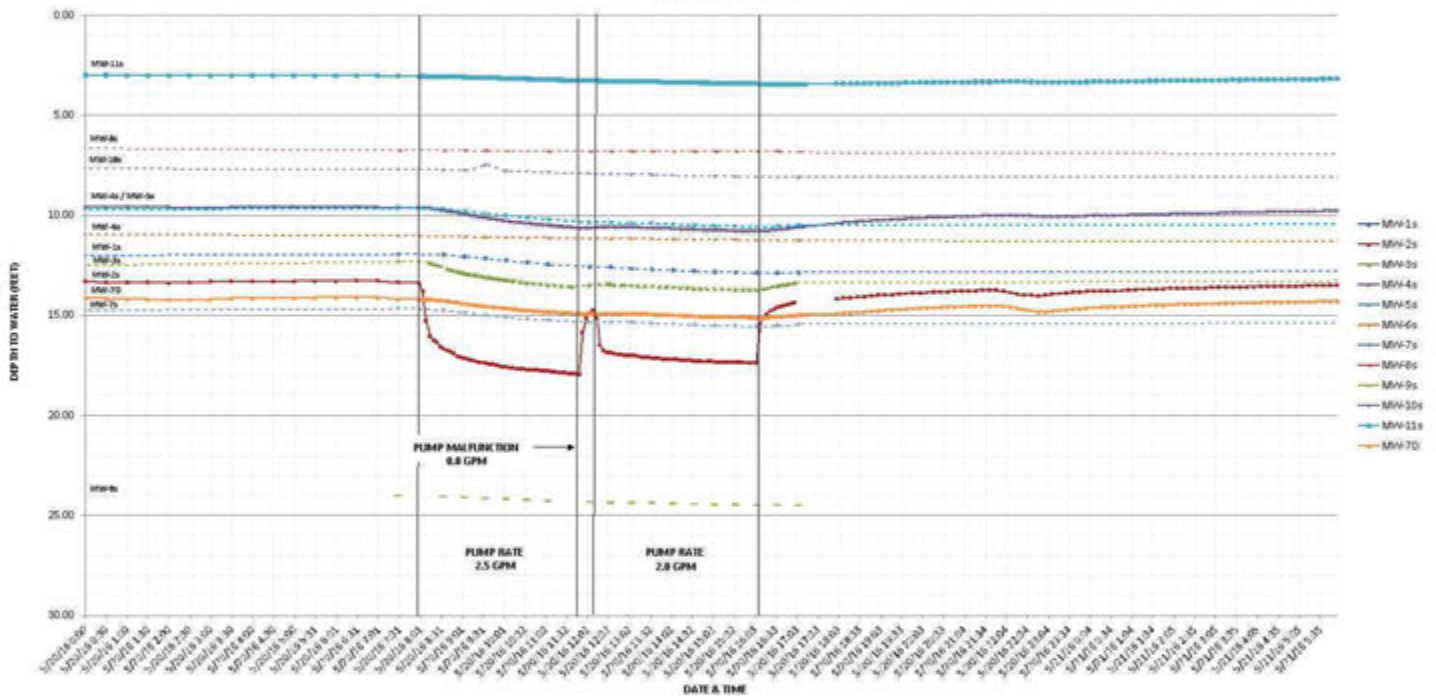
Calculations of aquifer parameters from aquifer tests can, at best, be considered only estimates of the hydraulic properties of the aquifer near the test well (Davis 1989). K values in fractured bedrock can vary greatly depending on the size and frequency of fractures, joints and/or bedding plane partings encountered in a given monitoring well. For the sake of comparison, Pennsylvania Tectonics completed a search for published K values for the Catskill Formation. No such data was found.

APPENDIX V-7

MW-2s Constant Rate Pumping Test Documentation

May 20, 2016

SHALLOW GROUNDWATER MONITORING WELLS
 DEPTH TO WATER - PUMP TEST @ MW-2s
 05/20/2016 - 05/21/2016



Determination of Transmissivity at the Pumping Well

Constant Rate Pumping – May 20, 2016 (MW-2s)

Transmissivity (T) is defined as the rate at which water flows through a vertical strip of the aquifer one-foot or one-meter wide and extending through the full saturated thickness, under a hydraulic gradient of 1 (Driscoll 1989). Storativity (S), or the Coefficient of Storage, represents the volume of water released from storage, or taken into storage, per unit of aquifer storage area per unit change in head (Driscoll 1989). For transmissivity at the pumping well, the Cooper & Jacob Solution was utilized. The Cooper and Jacob Solution (Time-Drawdown Method) is based on the following equation:

$$T = [264Q] / \Delta s$$

Where; Q = Discharge Rate (2.25 gpm)

Δs = Change in Drawdown Over One Log Cycle (determined graphically)

T = Transmissivity

The Cooper and Jacob Solution assumes the following:

- The aquifer is confined and has an “apparent” infinite extent;
- The aquifer is homogeneous, isotropic and of uniform thickness over the area influenced by the pumping;
- The piezometric surface was horizontal prior to pumping;
- The well is pumped at a constant rate;
- The well is fully penetrating;
- Water removed from storage is discharged instantaneously with decline in head;
- The well diameter is small, so well storage is negligible;
- The values of u are small (i.e. < 0.01).

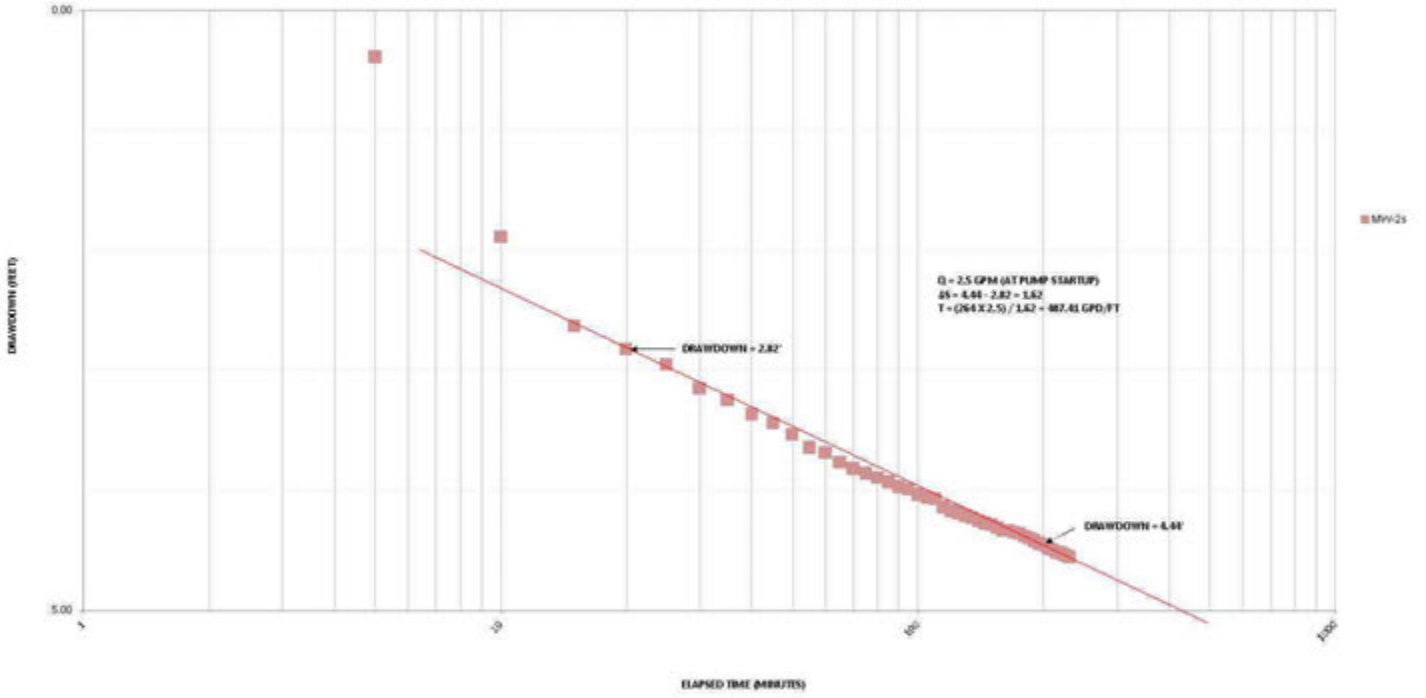
The determination of Transmissivity (T) was calculated utilizing the drawdown and recovery data collected from the pumping well during constant rate pumping test. The Transmissivity (T) values calculated are as follows:

$$T = 407.41 \text{ gpd/ft. (drawdown data)}$$

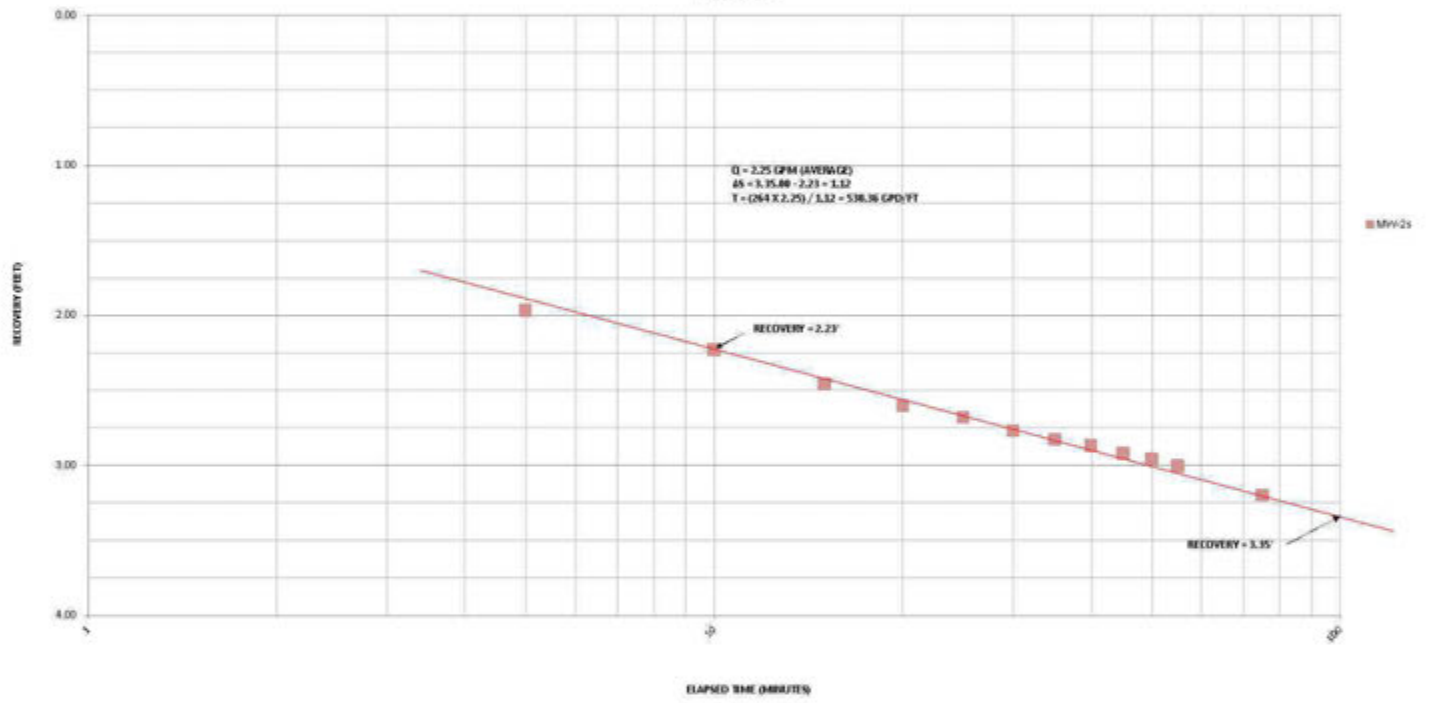
$$T = 530.36 \text{ gpd/ft. (recovery data)}$$

$$T (\text{avg.}) = 468.89 \text{ gpd/ft. (average T from pumping well data)}$$

MW-25
CONSTANT RATE PUMP TEST - DRAWDOWN VS. TIME
05/20/2016



MW-25
CONSTANT RATE PUMP TEST - RECOVERY VS. TIME
05/20/2016



Determination of Hydraulic Conductivity at the Pumping Well

Constant Rate Pumping Test – May 20, 2016 (MW-2s)

Hydraulic Conductivity (K) is defined as the capacity of a porous medium to transmit water. Specifically, K is the discharge that occurs through a one square foot unit section of aquifer under a hydraulic gradient of 1 (Driscoll 1989). The hydraulic conductivity of an aquifer can be estimated based on the relationship between transmissivity (T) and the saturated thickness of the aquifer (b), as $K = T/b$. The input data for (b) was 16.20 feet, which was calculated by subtracting the static water level from the total depth of the well as measured in the field from the top of casing. The Hydraulic Conductivity (K) is as follows:

$$K = T/b = 368.89 \text{ gpd/ft.} / 16.20 \text{ ft.} = 22.77 \text{ gpd/ft}^2 = 1.07 \times 10^{-3} \text{ cm/sec}$$

(average K value for MW-2s determined via slug test is $4.18 \times 10^{-3} \text{ cm/sec}$)

Calculations of aquifer parameters from aquifer tests can, at best, be considered only estimates of the hydraulic properties of the aquifer near the test well (Davis 1989). A review of the hydraulic conductivity data for the shallow aquifer indicates the K values calculated for MW-2s are within one (1) order of magnitude and are consistent with typical values for glacial deposits as presented by Driscoll (1986).

Determination of Transmissivity and Storativity from Observation Well Data

Constant Rate Pumping Test – May 20, 2016 (MW-2s)

The Cooper and Jacob Solution (Time-Drawdown Method) can also be utilized to estimate Transmissivity from observation well data, based on the following equation:

$$T = [264Q] / \Delta s$$

Where; Q = Discharge Rate (2.25 gpm)

Δs = Change in Drawdown Over One Log Cycle (determined graphically)

T = Transmissivity

The Transmissivity (T) values calculated are as follows:

$$T = 724.39 \text{ gpd/ft. (MW-1s Drawdown Data)}$$

$$T = 555.14 \text{ gpd/ft. (MW-3s Drawdown Data)}$$

$$T = 690.70 \text{ gpd/ft. (MW-4s Drawdown Data)}$$

$$T = 751.90 \text{ gpd/ft. (MW-5s Drawdown Data)}$$

$$T = 802.70 \text{ gpd/ft. (MW-7s Drawdown Data)}$$

$$T = 1,650.00 \text{ gpd/ft. (MW-11s Drawdown Data)}$$

Distance-drawdown relationships are required to determine the storativity values (S) of an aquifer. The transmissivity values at the observation wells are determined via the following equation (after Driscoll 1989):

$$T = [528Q] / [\Delta s]$$

Where; Q = Discharge Rate

Δs = Change in Drawdown Over One Log Cycle from Distance-Drawdown Graph

T = Transmissivity (gpd/ft.)

Storativity (S) is then determined via the following equation (after Driscoll 1989):

$$S = [0.3Tt] / r_o^2$$

Where; S = Storativity

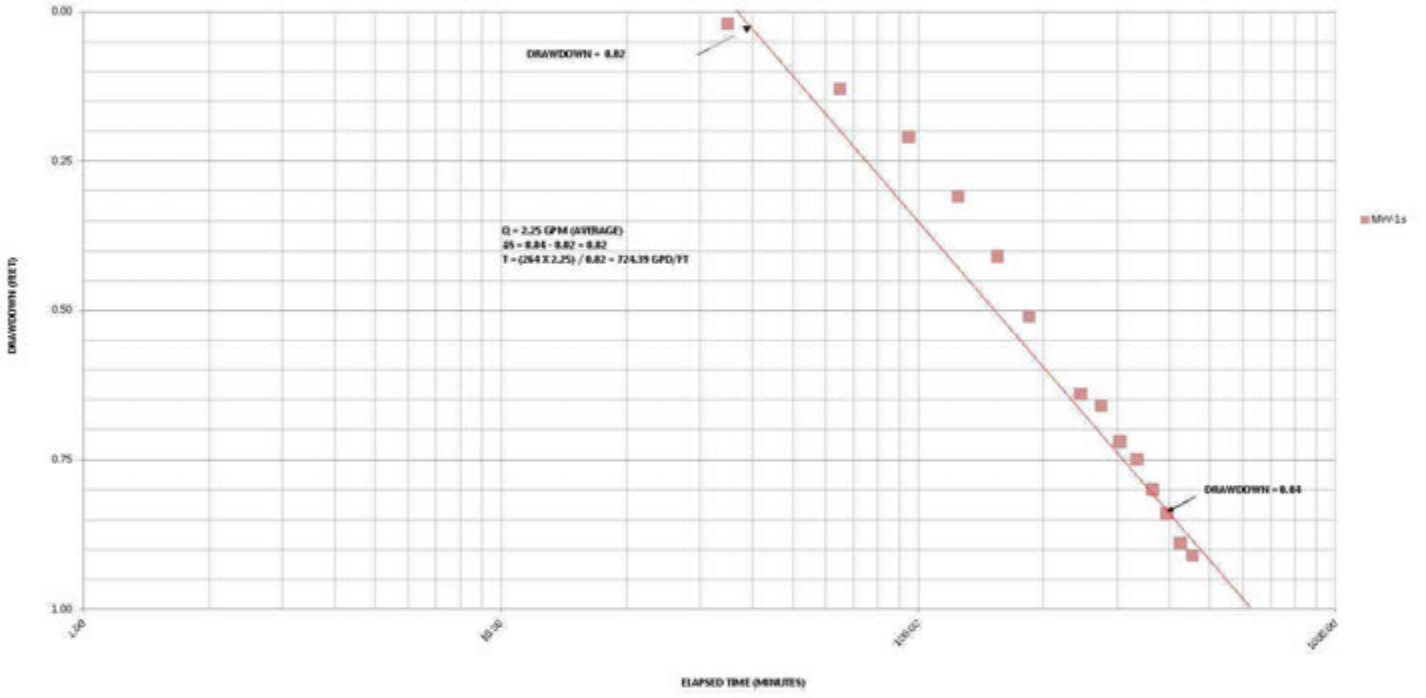
T = Transmissivity

t = time since pumping started, in days

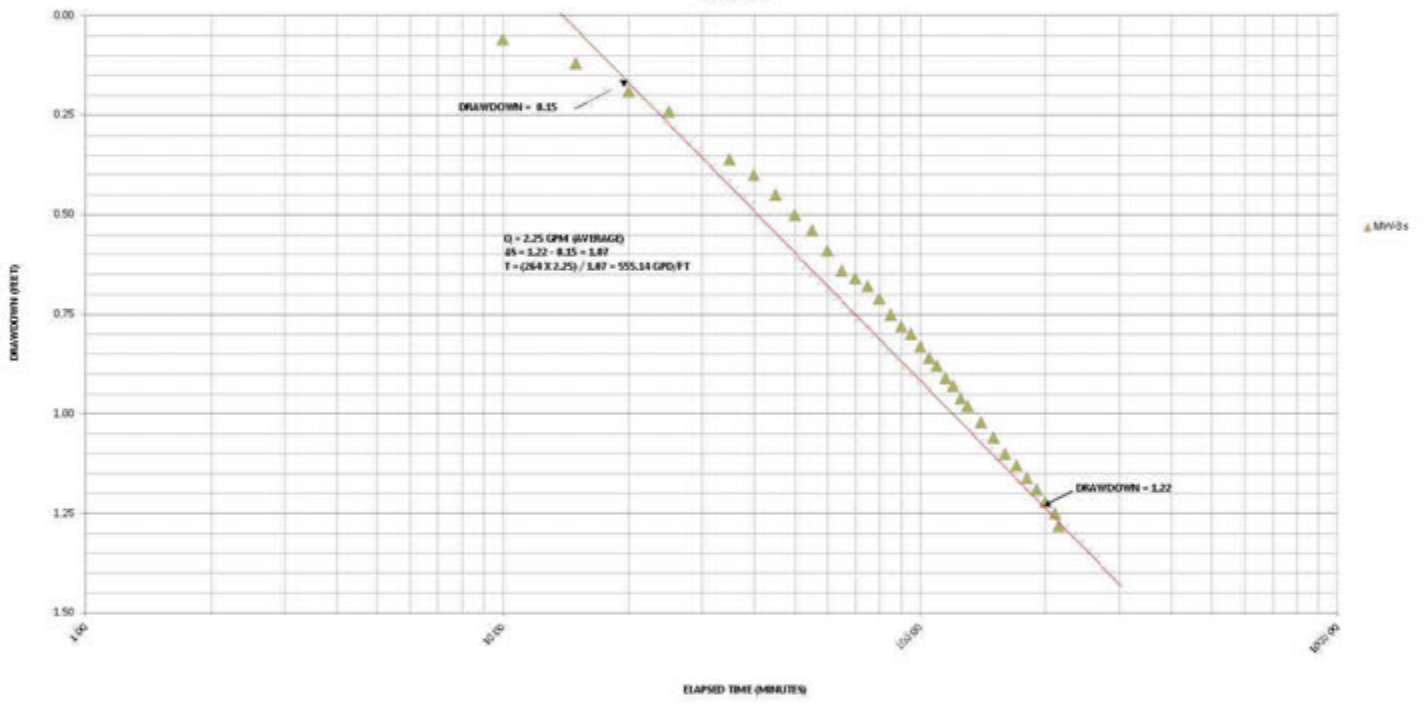
r_o = Intercept of Extended Straight Line at Zero Drawdown

The Storativity (S) of the shallow aquifer was determined to be 1.12×10^{-4} utilizing the distance drawdown relationships between the pumping well (MW-2s) and MW-1s, MW-3s, MW-4s, MW-5s, MW-7s and MW-11s.

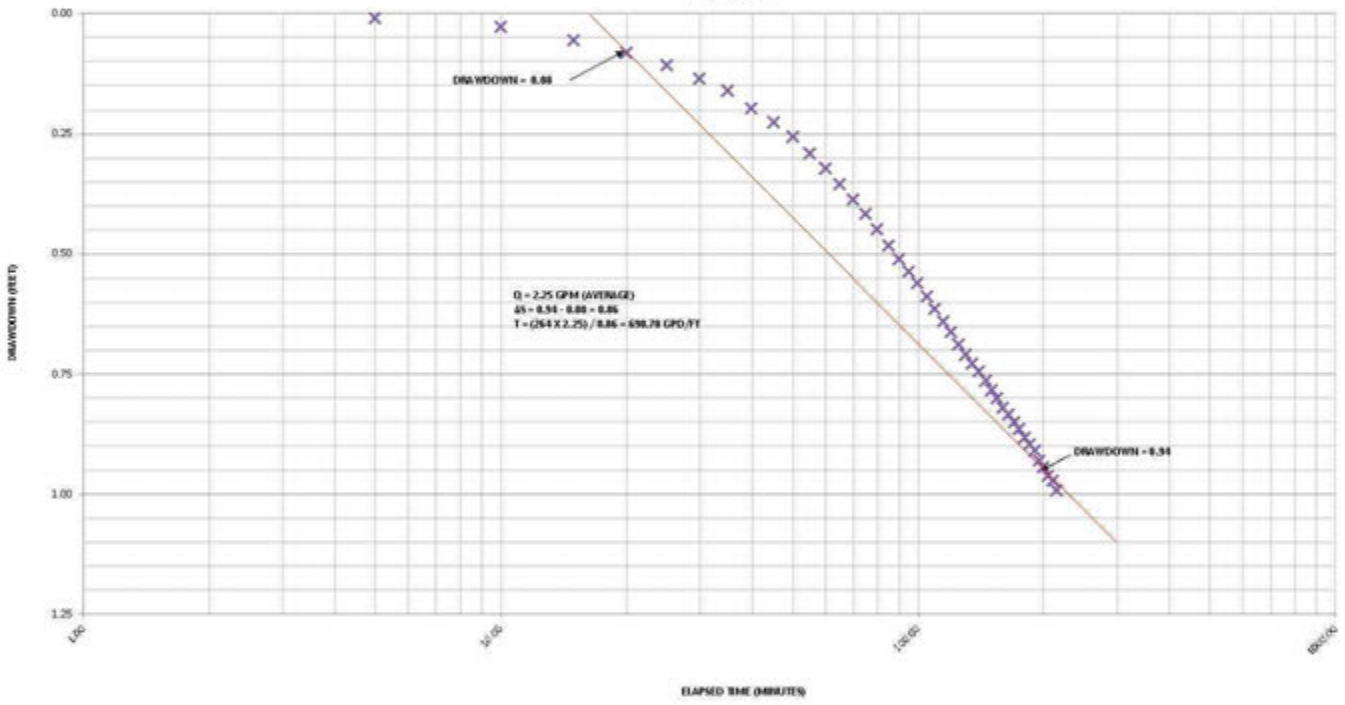
M/W-1s
CONSTANT RATE PUMP TEST AT M/W-25 - DRAWDOWN VS. TIME
05/20/2015



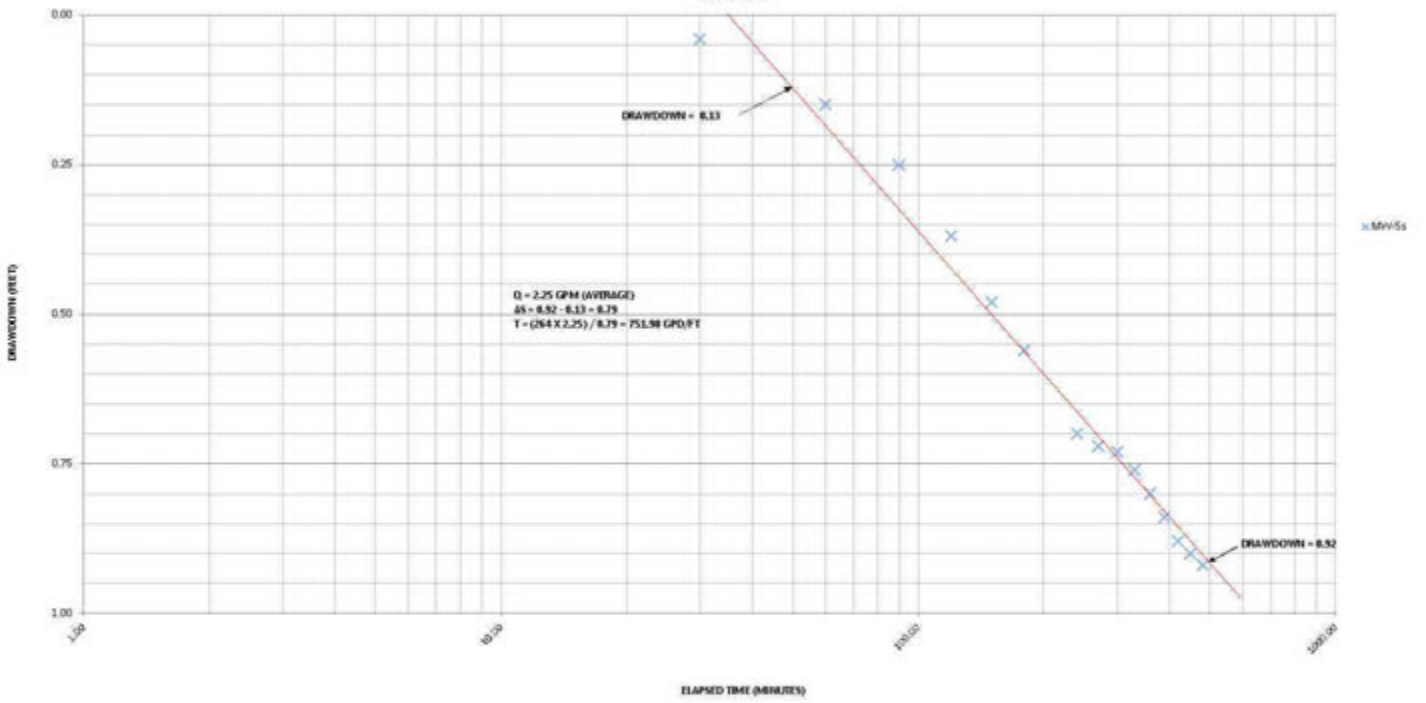
M/W-31
CONSTANT RATE PUMP TEST AT M/W-25 - DRAWDOWN VS. TIME
05/20/2015



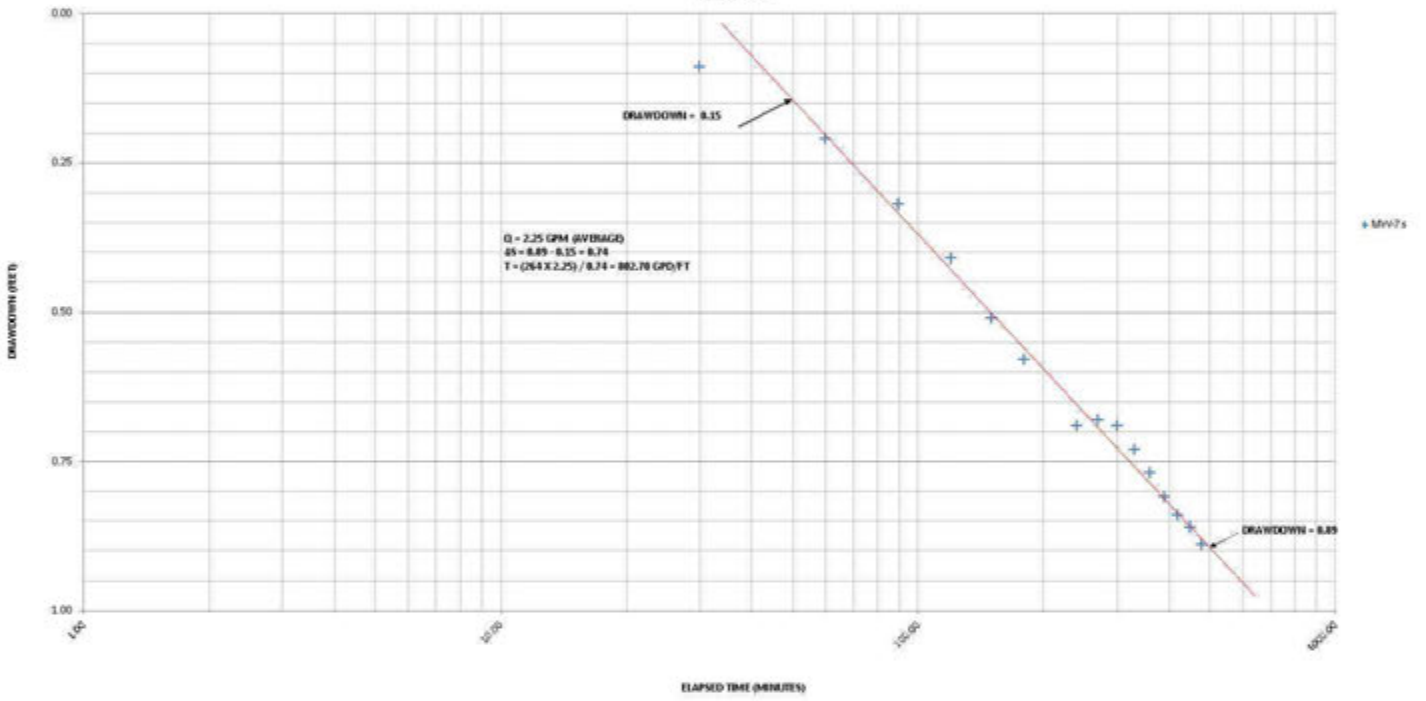
M/W-4s
CONSTANT RATE PUMP TEST AT M/W-25 - DRAWDOWN VS. TIME
05/20/2016



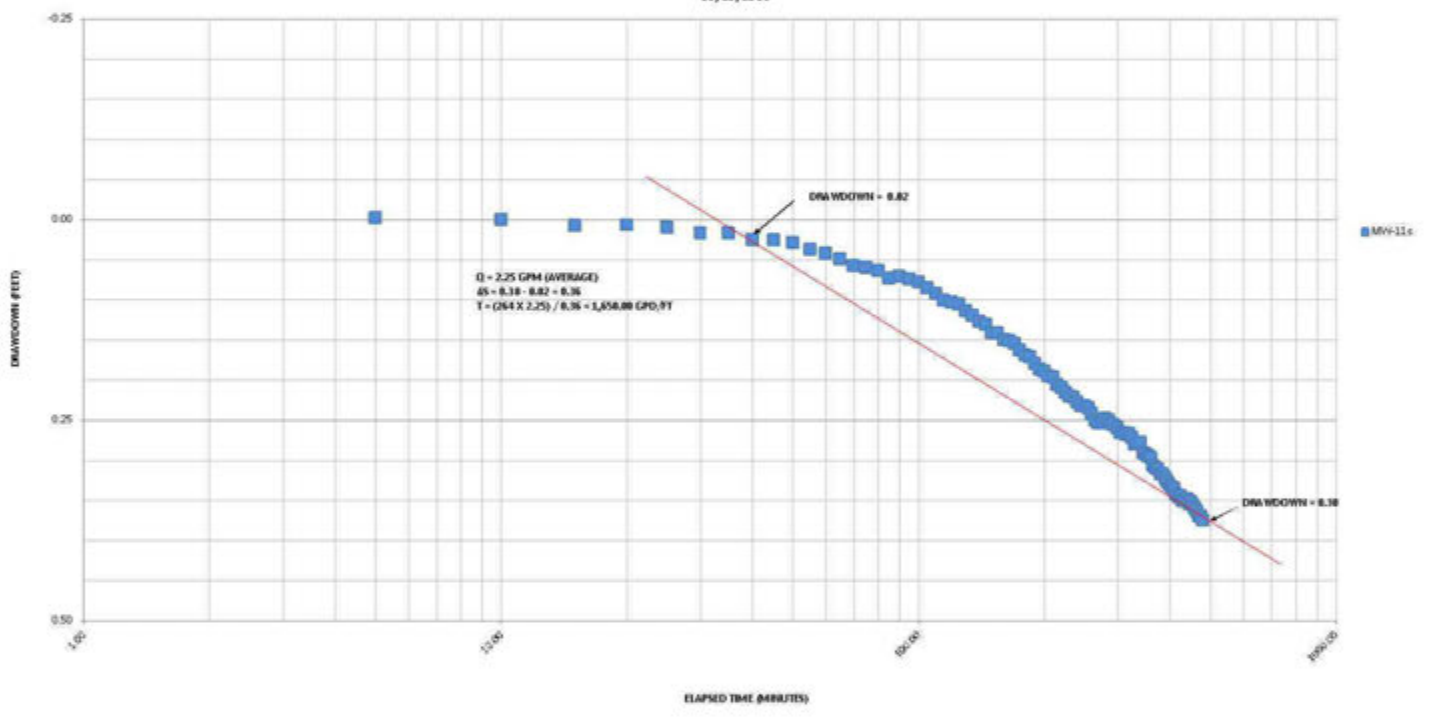
M/W-5s
CONSTANT RATE PUMP TEST AT M/W-25 - DRAWDOWN VS. TIME
05/20/2015



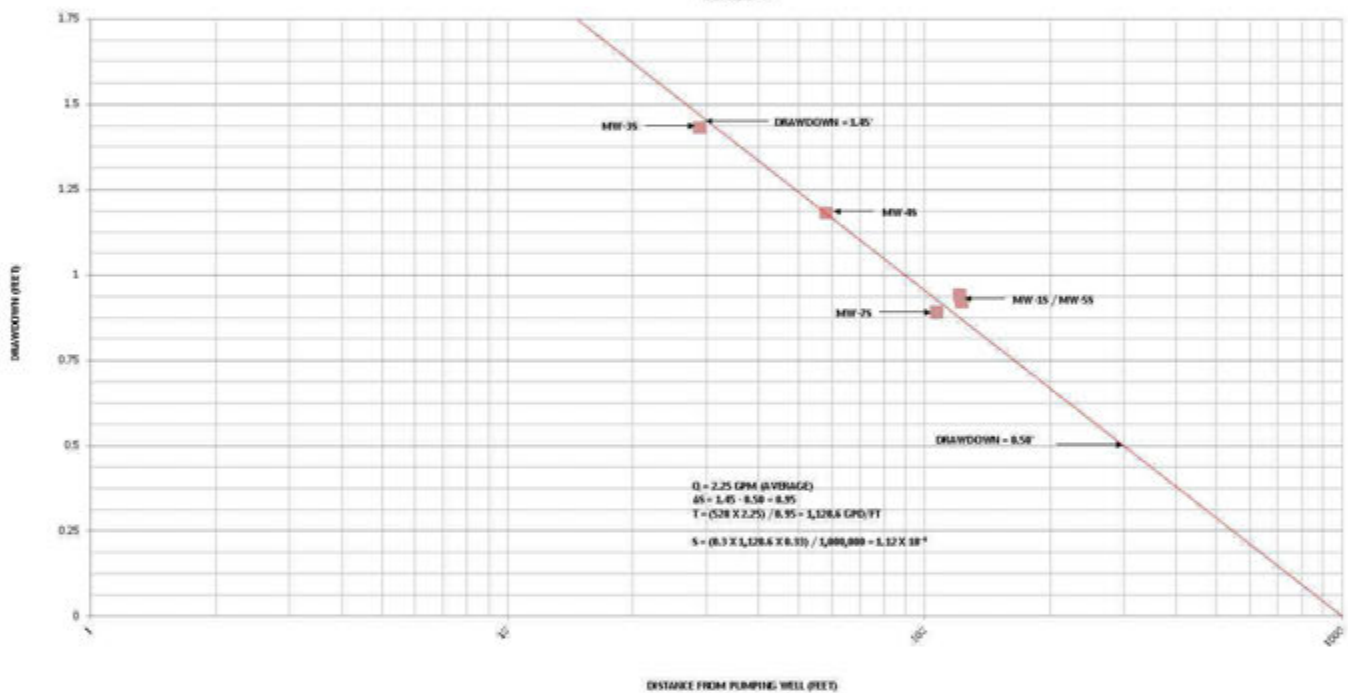
M/W-7s
CONSTANT RATE PUMP TEST AT M/W-25 - DRAWDOWN VS. TIME
05/20/2015



MW-11s
CONSTANT RATE PUMP TEST AT MW-25 - DRAWDOWN VS. TIME
05/20/2015



MW-25
CONSTANT RATE PUMP TEST - DISTANCE - DRAWDOWN PLOT
05/20/2015

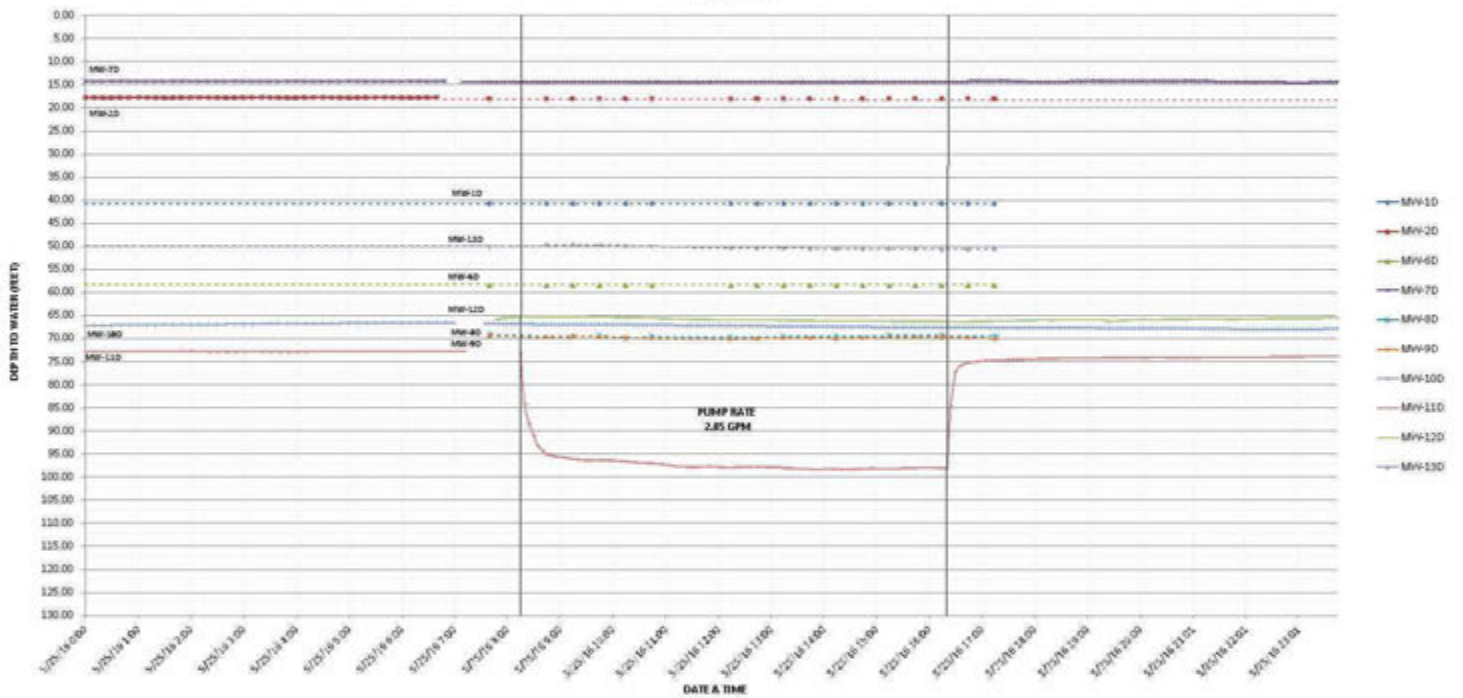


APPENDIX V-8

MW-11D Constant Rate Pumping Test Documentation

May 25, 2016

**BEDROCK GROUNDWATER MONITORING WELLS
DEPTH TO WATER - PUMP TEST @ MW-110
05/25/2016**



Determination of Transmissivity at the Pumping Well

Constant Rate Pumping – May 25, 2016 (MW-11D)

Transmissivity (T) is defined as the rate at which water flows through a vertical strip of the aquifer one-foot or one-meter wide and extending through the full saturated thickness, under a hydraulic gradient of 1 (Driscoll 1989). Storativity (S), or the Coefficient of Storage, represents the volume of water released from storage, or taken into storage, per unit of aquifer storage area per unit change in head (Driscoll 1989). For transmissivity at the pumping well, the Cooper & Jacob Solution was utilized. The Cooper and Jacob Solution (Time-Drawdown Method) is based on the following equation:

$$T = [264Q] / \Delta s$$

Where; Q = Discharge Rate (2.85 gpm)

Δs = Change in Drawdown Over One Log Cycle (determined graphically)

T = Transmissivity

The Cooper and Jacob Solution assumes the following:

- The aquifer is confined and has an “apparent” infinite extent;
- The aquifer is homogeneous, isotropic and of uniform thickness over the area influenced by the pumping;
- The piezometric surface was horizontal prior to pumping;
- The well is pumped at a constant rate;
- The well is fully penetrating;
- Water removed from storage is discharged instantaneously with decline in head;
- The well diameter is small, so well storage is negligible;
- The values of u are small (i.e. < 0.01).

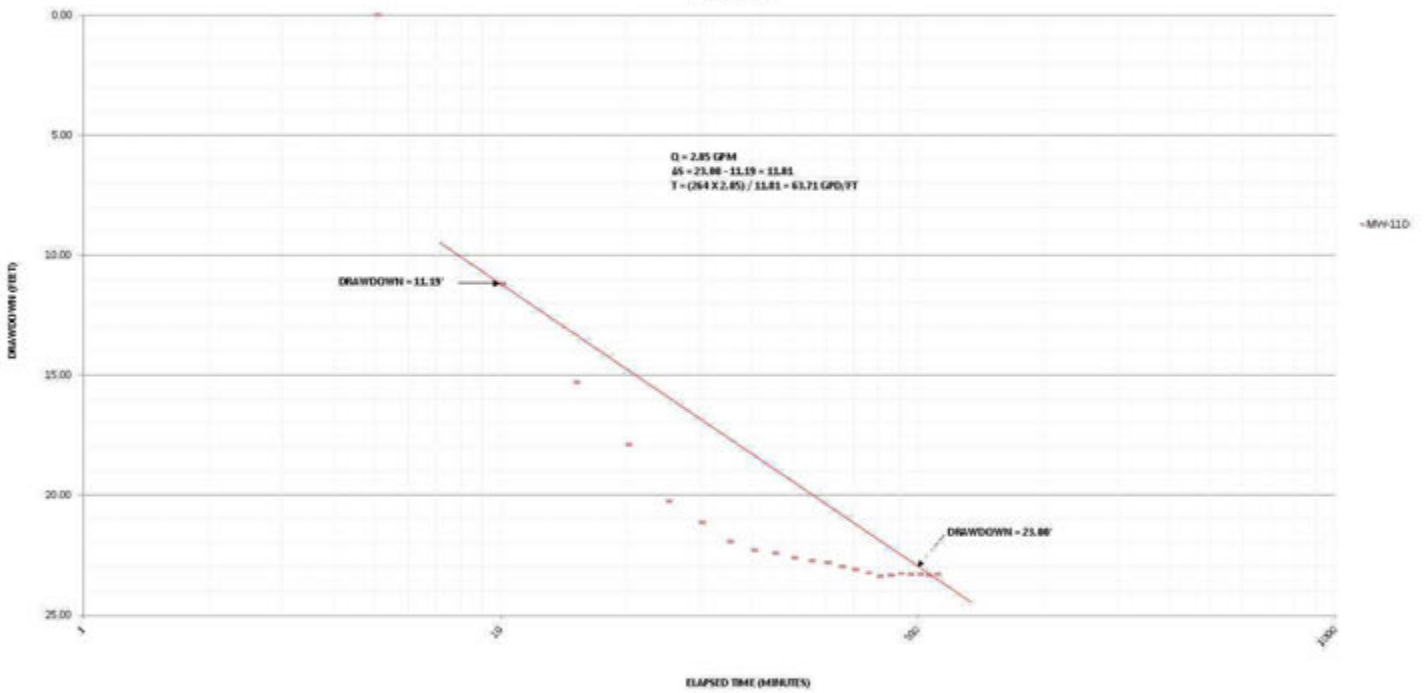
The determination of Transmissivity (T) was calculated utilizing the drawdown and recovery data collected from the pumping well during constant rate pumping test. The Transmissivity (T) values calculated are as follows:

$$T = 63.71 \text{ gpd/ft. (drawdown data)}$$

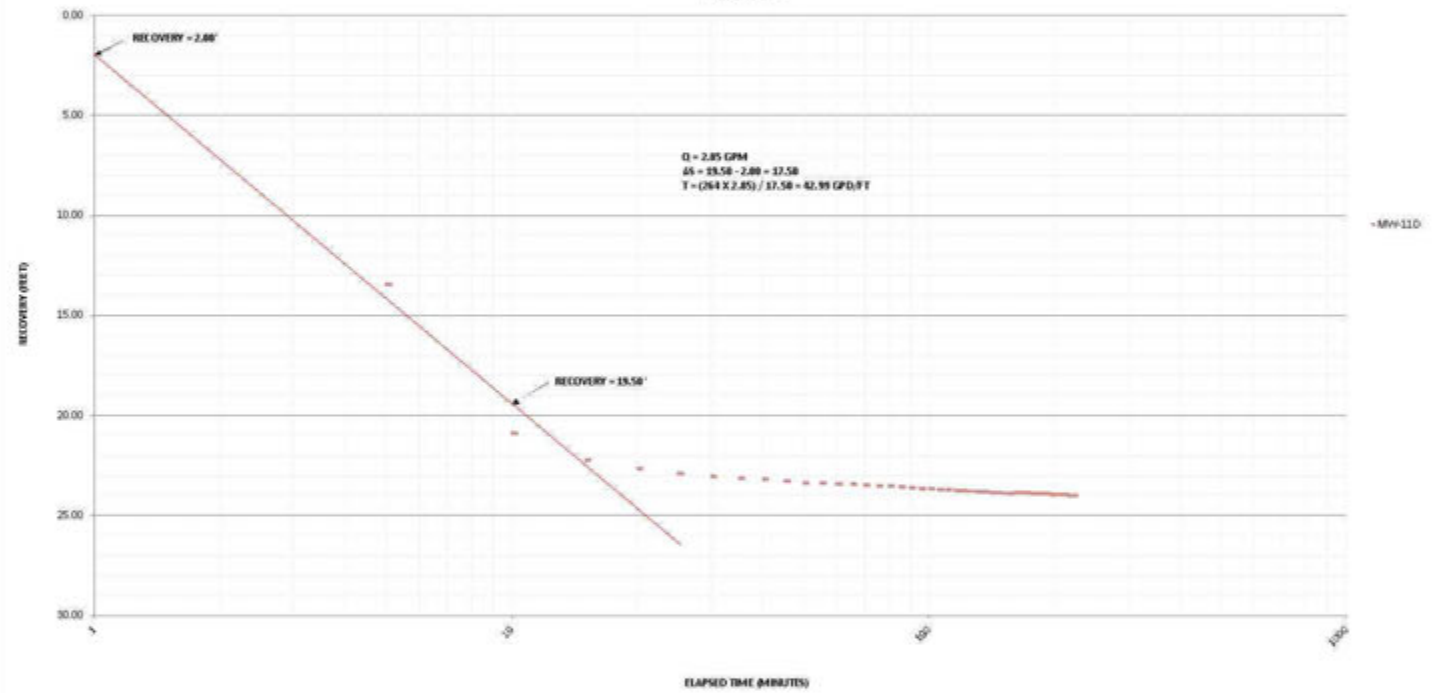
$$T = 42.99 \text{ gpd/ft. (recovery data)}$$

$$T (\text{avg.}) = 53.35 \text{ gpd/ft. (average T from pumping well data)}$$

MW-110
CONSTANT RATE PUMP TEST - DRAWDOWN VS. TIME
05/25/2016



MW-110
CONSTANT RATE PUMP TEST - RECOVERY VS. TIME
05/25/2016



Determination of Hydraulic Conductivity at the Pumping Well

Constant Rate Pumping Test – May 25, 2016 (MW-11D)

Hydraulic Conductivity (K) is defined as the capacity of a porous medium to transmit water. Specifically, K is the discharge that occurs through a one square foot unit section of aquifer under a hydraulic gradient of 1 (Driscoll 1989). The hydraulic conductivity of an aquifer can be estimated based on the relationship between transmissivity (T) and the saturated thickness of the aquifer (b), as $K = T/b$. The input data for (b) was 9 feet, which was based on the saturated thickness of the aquifer at the pumping well (i.e. the 112.0 foot to 121.0 foot interval that expressed potential water bearing fractures during the drilling). The Hydraulic Conductivity (K) is as follows:

$$K = T/b = 53.35 \text{ gpd/ft.} / 9.0 \text{ ft.} = 5.93 \text{ gpd/ft}^2 = 2.79 \times 10^{-4} \text{ cm/sec}$$

(average K value for MW-11D determined via slug test is 4.90×10^{-4} cm/sec)

Calculations of aquifer parameters from aquifer tests can, at best, be considered only estimates of the hydraulic properties of the aquifer near the test well (Davis 1989). K values in fractured bedrock can vary greatly depending on the size and frequency of fractures, joints and/or bedding plane partings encountered in a given monitoring well. For the sake of comparison, Pennsylvania Tectonics completed a search for published K values for the Catskill Formation. No such data was found.

Determination of Transmissivity and Storativity from Observation Well Data

Constant Rate Pumping Test – May 25, 2016 (MW-11D)

The Cooper and Jacob Solution (Time-Drawdown Method) can also be utilized to estimate Transmissivity from observation well data, based on the following equation:

$$T = [264Q] / \Delta s$$

Where; Q = Discharge Rate (2.85 gpm)

Δs = Change in Drawdown Over One Log Cycle (determined graphically)

T = Transmissivity

The Transmissivity (T) values calculated are as follows:

$$T = 665.84 \text{ gpd/ft. (MW-12D Drawdown Data)}$$

Distance-drawdown relationships are required to determine the storativity values (S) of an aquifer. The transmissivity values at the observation wells are determined via the following equation (after Driscoll 1989):

$$T = [528Q] / [\Delta s]$$

Where; Q = Discharge Rate

Δs = Change in Drawdown Over One Log Cycle from Distance-Drawdown Graph

T = Transmissivity (gpd/ft.)

Storativity (S) is then determined via the following equation (after Driscoll 1989):

$$S = [0.3Tt] / r_o^2$$

Where; S = Storativity

T = Transmissivity

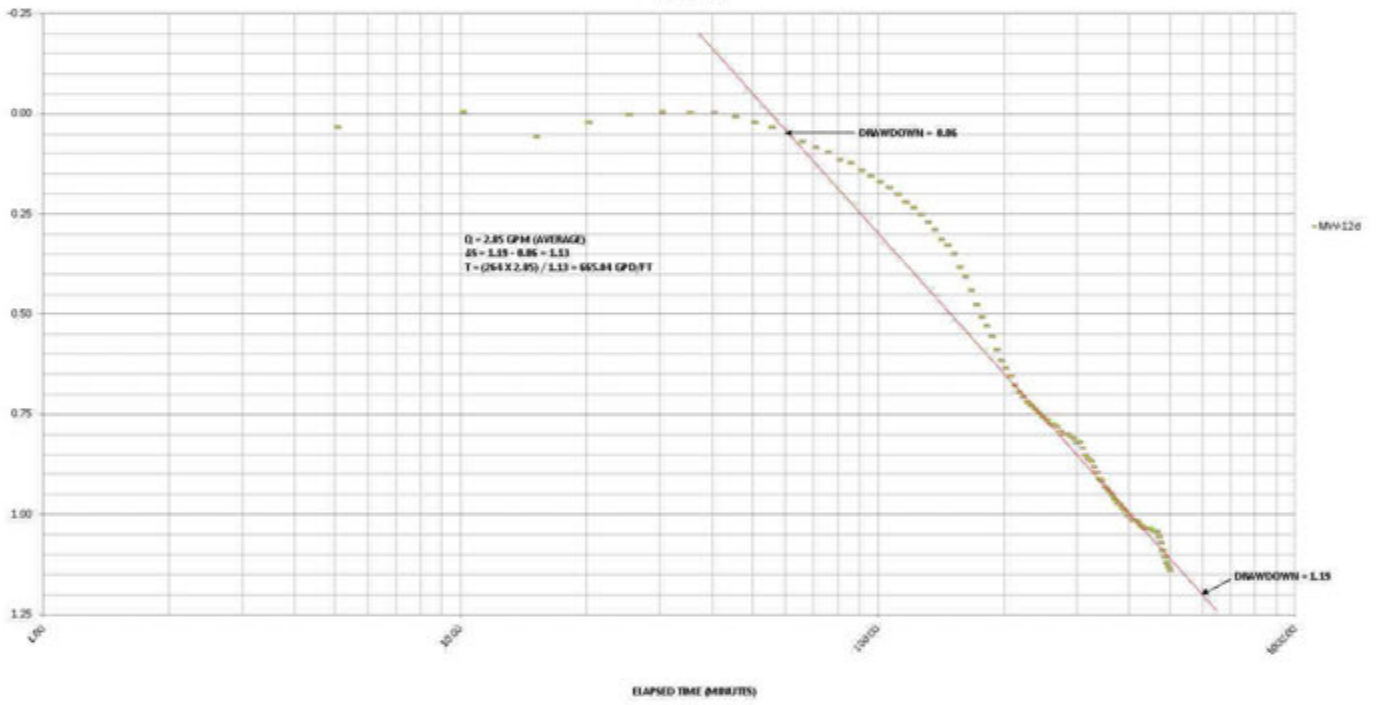
t = time since pumping started, in days

r_o = Intercept of Extended Straight Line at Zero Drawdown

The determination of T and S values were not applicable based on the data generated, for the following reason:

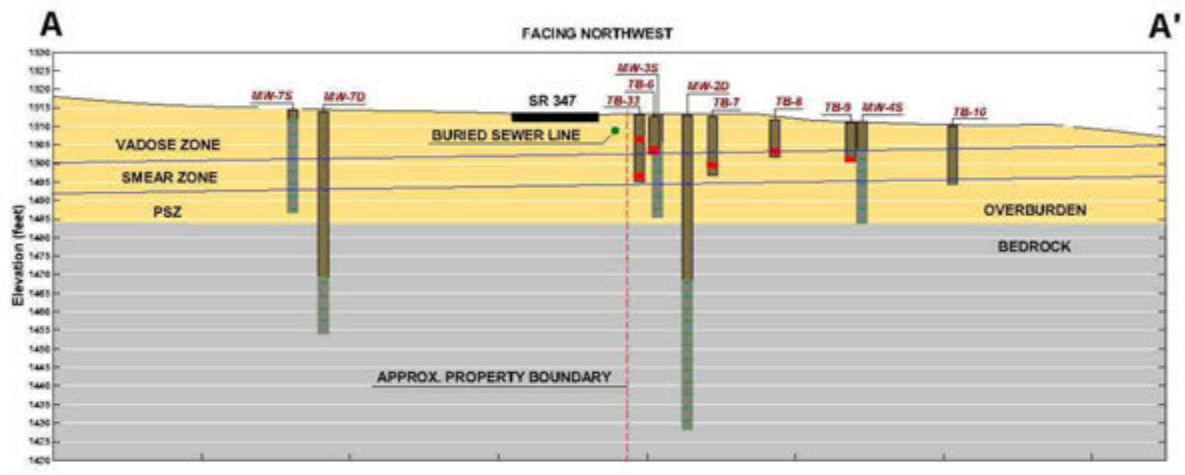
- Only (1) observation well (MW-12D) experienced observable drawdown during the pump test at MW-11D. As such, a distance drawdown plot would only include one (1) data point. Multiple points are required for analysis of storativity.

M/W-12D
CONSTANT RATE PUMP TEST AT MW-11D- DRAWDOWN VS. TIME
05/25/2015



APPENDIX W

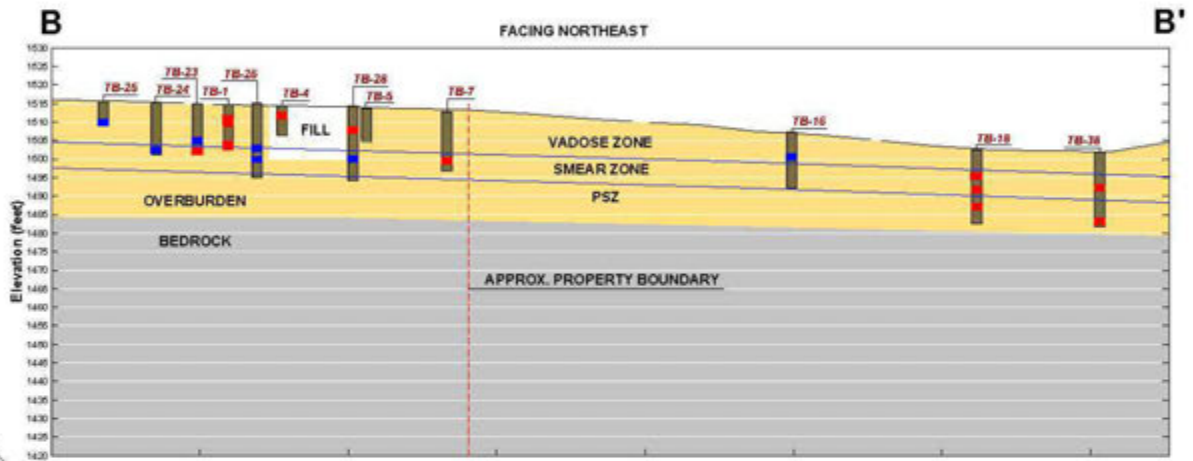
Soil Analytical Data Sheets, Summary Tables and Cross Sections



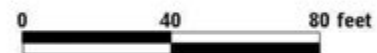
■ SOIL ANALYTICAL DATA BELOW APPLICABLE CLEANUP STANDARDS
■ SOIL ANALYTICAL DATA IN EXCESS OF APPLICABLE CLEANUP STANDARDS



FIGURE W-1 CROSS SECTION A - A' LEWIS BROTHERS GARAGE PROPERTY PA ROUTE 347 SCOTT TOWNSHIP, LACKAWANNA COUNTY PENNSYLVANIA	
DRAWN BY: KC	DATE: 03/15/2016
SCALE: 1" = 40' (NO VERTICAL EXAGGERATION)	



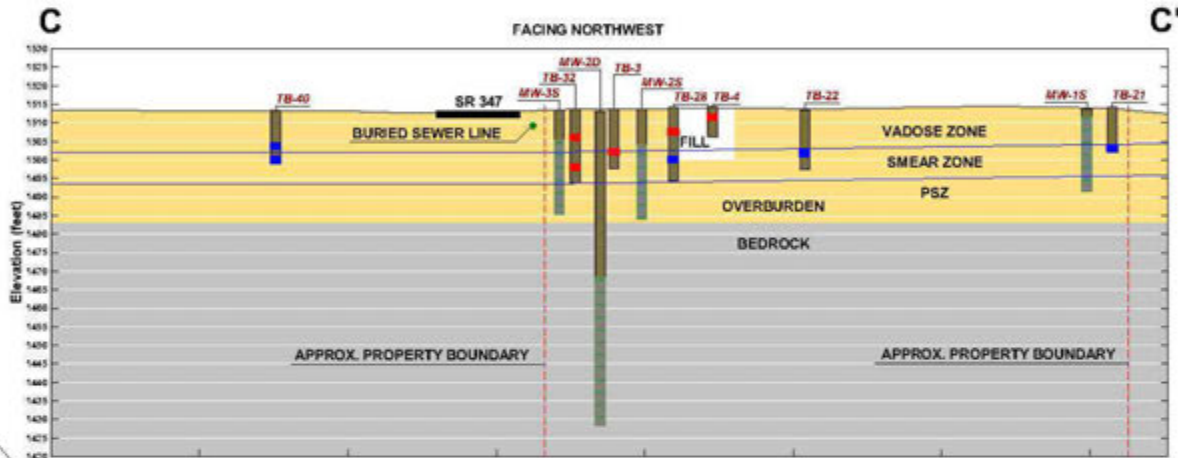
■ SOIL ANALYTICAL DATA BELOW APPLICABLE CLEANUP STANDARDS
■ SOIL ANALYTICAL DATA IN EXCESS OF APPLICABLE CLEANUP STANDARDS



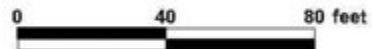
NOTE: TB-4 WAS EXCAVATED DURING THE 2010 SOURCE REDUCTION ACTIVITIES.



FIGURE W-2 CROSS SECTION B - B' LEWIS BROTHERS GARAGE PROPERTY PA ROUTE 347 SCOTT TOWNSHIP, LACKAWANNA COUNTY PENNSYLVANIA	
DRAWN BY: KC	DATE: 03/15/2016
SCALE: 1" = 40' (NO VERTICAL EXAGGERATION)	



- SOIL ANALYTICAL DATA BELOW APPLICABLE CLEANUP STANDARDS
- SOIL ANALYTICAL DATA IN EXCESS OF APPLICABLE CLEANUP STANDARDS



NOTE: TB-4 WAS EXCAVATED DURING THE 2010 SOURCE REDUCTION ACTIVITIES.

FIGURE W-3 CROSS SECTION C - C' LEWIS BROTHERS GARAGE PROPERTY PA ROUTE 347 SCOTT TOWNSHIP, LACKAWANNA COUNTY PENNSYLVANIA	
DRAWN BY: KC	DATE: 03/15/2016
SCALE: 1" = 40' (NO VERTICAL EXAGGERATION)	

09/26/16


TABLE W-1
Site Characterization Activities
Lewis Brothers Garage Property
Soil Sample Analytical Data Summary (mg/kg)

Parameter	TB1A	TB1B	TB2A	TB3A	TB4A	TB6A	TB7A	SHS MSC*	SHS MSC**
Depth	3.0' - 5.5'	10.0' - 12.0'	6.5' - 8.0'	11.0' - 12.0'	2.0' - 3.5'	8.0' - 10.0'	12.5' - 13.5'		
Condition	Vadose	Smear	Vadose	Smear	Vadose	Smear	Smear		
Sample Date	2/28/2008	2/28/2008	2/28/2008	2/28/2008	2/28/2008	2/28/2008	2/28/2008		
MTBE	<0.238	<0.284	<0.246	<0.238	<0.252	<0.242	<0.250	2.0	2.0
Benzene	<0.238	<0.284	13.8	9.08	173	2.42	8.86	0.5	0.5
Ethylbenzene	5.79	13.8	18.9	35.0	180	5.75	22.0	70.0	70.0
Cumene	3.1	2.37	2.86	5.67	20.8	0.721	2.46	600.0	84.0
Toluene	<0.595	9.21	71.3	61.1	838	21.2	62.4	100.0	100.0
Naphthalene	5.45	4.89	6.37	13.2	42.3	2.14	8.02	25.0	10.0
Total Xylenes	12.7	75.2	115	216	1,260	35.3	119	1,000.0	1,000.0
1,3,5-TMB	11.9	10.2	14.5	29.0	122	3.97	14.2	74.0	42.0
1,2,4-TMB	38.4	33.8	47.6	95.8	446	13.9	46.7	8.4	1.5
1,2-EDC	NA	NA	NA	NA	NA	NA	NA	0.5	0.5
1,2-EDB	NA	NA	NA	NA	NA	NA	NA	0.005	0.005
Total Lead	NA	NA	NA	NA	NA	NA	NA	450.0	45.0

1,2-EDC 1,2-Dichloroethane
 1,2-EDB 1,2-Dibromoethane
 MTBE Methyl Tert Butyl Ether
 1,2,4-TMB 1,2,4-Trimethylbenzene
 1,3,5-TMB 1,3,5-Trimethylbenzene
 NS Not Sampled
 ND Not Detected
 NA Not Analyzed

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

 Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

 Shaded values indicate Act 2 SHS exceedances - Saturated Zone**

Condition:

Vadose: Vadose Zone - Unsaturated MSCs Apply

Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply

PSZ: Permanently Saturated Zone - Saturated MSCs Apply


09/26/16


TABLE W-1
Site Characterization Activities
Lewis Brothers Garage Property
Soil Sample Analytical Data Summary (mg/kg)

Parameter	TB8A	TB9A	TB9B	TB12A	TB13A	TB13B	TB14A	SHS MSC*	SHS MSC**
Depth	8.0' - 9.0'	9.5' - 10.5'	15.0' - 16.0'	17.0' - 18.0'	6.5' - 7.5'	16.0' - 17.0'	9.5' - 11.0'		
Condition	Smear	Smear	PSZ	Smear	Vadose	PSZ	Smear		
Sample Date	2/28/2008	2/28/2008	2/28/2008	3/3/2008	3/3/2008	3/3/2008	3/3/2008		
MTBE	<0.240	<0.274	<0.240	<0.005	<0.005	0.065	<0.248	2.0	2.0
Benzene	20.5	<0.274	<0.240	<0.005	<0.005	0.631	0.853	0.5	0.5
Ethylbenzene	20.3	<0.685	<0.600	<0.005	<0.005	0.008	<0.620	70.0	70.0
Cumene	2.3	<0.685	<0.600	<0.005	<0.005	<0.005	<0.620	600.0	84.0
Toluene	85.9	<0.685	<0.600	<0.005	<0.005	0.078	2.67	100.0	100.0
Naphthalene	7.72	<1.37	<1.20	<0.005	<0.005	<0.005	<0.620	25.0	10.0
Total Xylenes	116	<2.06	<1.80	<0.015	<0.015	0.025	<1.86	1,000.0	1,000.0
1,3,5-TMB	13.2	1.78	<0.600	<0.005	<0.005	<0.005	<0.620	74.0	42.0
1,2,4-TMB	43.3	5.17	<0.600	<0.005	<0.005	<0.005	<0.620	8.4	1.5
1,2-EDC	NA	NA	NA	NA	NA	NA	NA	0.5	0.5
1,2-EDB	NA	NA	NA	NA	NA	NA	NA	0.005	0.005
Total Lead	NA	NA	NA	NA	NA	NA	NA	450.0	45.0

1,2-EDC 1,2-Dichloroethane
 1,2-EDB 1,2-Dibromoethane
 MTBE Methyl Tert Butyl Ether
 1,2,4-TMB 1,2,4-Trimethylbenzene
 1,3,5-TMB 1,3,5-Trimethylbenzene
 NS Not Sampled
 ND Not Detected
 NA Not Analyzed

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

 Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

 Shaded values indicate Act 2 SHS exceedances - Saturated Zone**

Condition:

Vadose: Vadose Zone - Unsaturated MSCs Apply

Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply

PSZ: Permanently Saturated Zone - Saturated MSCs Apply


09/26/16


TABLE W-1
Site Characterization Activities
Lewis Brothers Garage Property
Soil Sample Analytical Data Summary (mg/kg)

Parameter	TB15A	TB16A	TB17A	TB18A	TB18B	TB18C	TB19A	SHS MSC*	SHS MSC**
Depth	15.0' - 16.0'	6.0' - 7.5'	15.0' - 16.0'	6.5' - 8.0'	10.0' - 11.5'	15.0' - 16.0'	15.0' - 16.0'		
Condition	Smear	Vadose	Smear	Smear	Smear	PSZ	Smear		
Sample Date	3/3/2008	3/3/2008	3/3/2008	3/3/2008	3/3/2008	3/3/2008	3/3/2008		
MTBE	<0.005	<0.248	<0.005	<0.240	<0.238	<0.216	<0.005	2.0	2.0
Benzene	0.167	0.487	0.035	<0.240	0.694	1.08	<0.005	0.5	0.5
Ethylbenzene	0.065	<0.620	0.015	1.21	2.78	<0.540	<0.005	70.0	70.0
Cumene	<0.005	<0.620	<0.005	<0.600	<0.595	<0.540	<0.005	600.0	84.0
Toluene	0.88	2.01	<0.005	1.39	6.76	3.46	<0.005	100.0	100.0
Naphthalene	0.008	<0.620	0.005	0.744	1.21	<0.540	<0.005	25.0	10.0
Total Xylenes	0.266	2.54	0.015	7.81	16.7	1.96	<0.015	1,000.0	1,000.0
1,3,5-TMB	0.01	<0.620	0.005	1.9	2.27	<0.540	<0.005	74.0	42.0
1,2,4-TMB	0.034	<0.620	0.011	5.75	7.57	<0.540	<0.005	8.4	1.5
1,2-EDC	NA	NA	NA	NA	NA	NA	NA	0.5	0.5
1,2-EDB	NA	NA	NA	NA	NA	NA	NA	0.005	0.005
Total Lead	NA	NA	NA	NA	NA	NA	NA	450.0	45.0

1,2-EDC 1,2-Dichloroethane
 1,2-EDB 1,2-Dibromoethane
 MTBE Methyl Tert Butyl Ether
 1,2,4-TMB 1,2,4-Trimethylbenzene
 1,3,5-TMB 1,3,5-Trimethylbenzene
 NS Not Sampled
 ND Not Detected
 NA Not Analyzed

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

 Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

 Shaded values indicate Act 2 SHS exceedances - Saturated Zone**

Condition:

Vadose: Vadose Zone - Unsaturated MSCs Apply
 Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply
 PSZ: Permanently Saturated Zone - Saturated MSCs Apply


09/26/16


TABLE W-1
Site Characterization Activities
Lewis Brothers Garage Property
Soil Sample Analytical Data Summary (mg/kg)

Parameter	TB21A	TB22	TB23A	TB23B	TB24	TB25	TB-26A	SHS MSC*	SHS MSC**
Depth	11.0' - 12.0'	11.0' - 12.0'	10.0' - 10.5'	12.5' - 13.3'	12.8' - 13.0'	6.0' - 6.5'	12.0' - 13.0'		
Condition	Smear	Smear	Vadose	Smear	Smear	Vadose	Smear		
Sample Depth	3/3/2008	6/12/2008	6/12/2008	6/12/2008	6/12/2008	6/12/2008	11/11/2015		
MTBE	<0.005	0.008	<0.005	<1.57	<0.005	<0.005	0.0062	2.0	2.0
Benzene	<0.005	<0.005	<0.005	4.76	<0.005	<0.005	0.241	0.5	0.5
Ethylbenzene	<0.005	0.027	<0.005	26.5	<0.005	0.014	0.0633	70.0	70.0
Cumene	<0.005	0.007	<0.005	4.06	<0.005	<0.005	0.0039	600.0	84.0
Toluene	<0.005	<0.005	<0.005	42.1	<0.005	<0.005	0.18	100.0	100.0
Naphthalene	<0.005	0.156	0.025	7.46	0.088	0.07	0.0076	25.0	10.0
Total Xylenes	<0.015	0.083	<0.015	154	<0.015	0.062	0.13	1,000.0	1,000.0
1,3,5-TMB	<0.005	0.082	<0.005	18.5	<0.005	0.056	0.006	74.0	42.0
1,2,4-TMB	<0.005	0.25	<0.005	61.6	<0.005	0.203	0.0178	8.4	1.5
1,2-EDC	NA	<0.005	<0.005	<1.57	<0.005	<0.005	<0.0018	0.5	0.5
1,2-EDB	NA	<0.005	<0.005	<1.57	<0.005	<0.005	<0.0018	0.005	0.005
Total Lead	NA	6.48	8.44	10.3	6.4	8.06	7.5	450.0	45.0

1,2-EDC 1,2-Dichloroethane
 1,2-EDB 1,2-Dibromoethane
 MTBE Methyl Tert Butyl Ether
 1,2,4-TMB 1,2,4-Trimethylbenzene
 1,3,5-TMB 1,3,5-Trimethylbenzene
 NS Not Sampled
 ND Not Detected
 NA Not Analyzed

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

 Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

 Shaded values indicate Act 2 SHS exceedances - Saturated Zone**

Condition:

Vadose: Vadose Zone - Unsaturated MSCs Apply

Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply

PSZ: Permanently Saturated Zone - Saturated MSCs Apply


09/26/16


TABLE W-1
Site Characterization Activities
Lewis Brothers Garage Property
Soil Sample Analytical Data Summary (mg/kg)

Parameter	TB-26B	TB-27A	TB-27B	TB-28A	TB-28B	TB-29A	TB-29B	SHS MSC*	SHS MSC**
Depth	14.5' - 15.5'	4.0' - 5.0'	16.0' - 17.0'	6.0' - 7.0'	13.5' - 14.5'	9.0' - 10.0'	14.5' - 15.5'		
Condition	Smear	Vadose	Smear	Vadose	Smear	Vadose	Smear		
Sample Date	11/11/2015	11/18/2015	11/18/2015	11/18/2015	11/18/2015	11/11/2015	11/11/2015		
MTBE	0.0041	<0.466	0.0022	0.0021	<0.0017	<0.0019	<0.0017	2.0	2.0
Benzene	0.26	0.664	0.0149	0.0077	<0.0017	<0.0019	<0.0017	0.5	0.5
Ethylbenzene	0.428	10.8	0.108	1.86	0.003	<0.0019	<0.0017	70.0	70.0
Cumene	0.0499	2.94	0.0084	0.047	0.0089	<0.0019	0.0029	600.0	84.0
Toluene	0.701	9.24	0.0715	0.0212	<0.0017	<0.0019	<0.0017	100.0	100.0
Naphthalene	0.0429	4.6	0.0551	0.173	0.0088	0.002	<0.0017	25.0	10.0
Total Xylenes	1.74	70.5	0.908	6.45	0.0091	<0.0058	<0.0052	1,000.0	1,000.0
1,3,5-TMB	0.297	12.9	0.0411	3.05	0.0071	<0.0019	0.0109	74.0	42.0
1,2,4-TMB	1.0	49.4	0.159	9.05	0.0374	0.0022	0.0258	8.4	1.5
1,2-EDC	<0.0018	<0.466	<0.0016	<0.0018	<0.0017	<0.0019	<0.0017	0.5	0.5
1,2-EDB	<0.0018	<0.466	<0.0016	<0.0018	<0.0017	<0.0019	<0.0017	0.005	0.005
Total Lead	8.3	9.7	5.2	8.1	7.8	7.9	5.2	450.0	45.0

1,2-EDC 1,2-Dichloroethane
 1,2-EDB 1,2-Dibromoethane
 MTBE Methyl Tert Butyl Ether
 1,2,4-TMB 1,2,4-Trimethylbenzene
 1,3,5-TMB 1,3,5-Trimethylbenzene
 NS Not Sampled
 ND Not Detected
 NA Not Analyzed

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

 Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

 Shaded values indicate Act 2 SHS exceedances - Saturated Zone**

Condition:

Vadose: Vadose Zone - Unsaturated MSCs Apply
 Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply
 PSZ: Permanently Saturated Zone - Saturated MSCs Apply

09/26/16


TABLE W-1
Site Characterization Activities
Lewis Brothers Garage Property
Soil Sample Analytical Data Summary (mg/kg)

Parameter	TB-30A	TB-30B	TB-31A	TB-31B	TB-32A	TB-32B	TB-33A	SHS MSC*	SHS MSC**
Depth	12.0' - 13.0'	15.0' - 16.0'	7.0' - 8.0'	13.5' - 14.5'	7.0' - 8.0'	15.0' - 16.0'	6.0' - 7.0'		
Condition	Vadose	Smear	Vadose	Smear	Vadose	Smear	Vadose		
Sample Date	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/18/2015		
MTBE	<0.0454	0.453	<0.0456	<0.429	0.002	0.0654	<0.241	2.0	2.0
Benzene	3.11	1.9	0.0581	50.1	0.149	0.229	0.668	0.5	0.5
Ethylbenzene	9.52	1.5	0.356	156	4.43	0.316	5.73	70.0	70.0
Cumene	1.58	0.191	0.25	40.3	0.673	<0.0439	0.959	600.0	84.0
Toluene	25.4	6.98	<0.0456	256.0	6.39	0.136	11.6	100.0	100.0
Naphthalene	3.54	0.816	0.5	72.0	2.78	0.156	2.57	25.0	10.0
Total Xylenes	50.4	8.76	0.524	811.0	19.6	0.926	33.9	1,000.0	1,000.0
1,3,5-TMB	8.42	1.19	0.875	121.0	4.99	0.154	5.94	74.0	42.0
1,2,4-TMB	29.7	5.29	2.84	433.0	15.8	0.475	18.3	8.4	1.5
1,2-EDC	<0.0454	0.029	<0.0456	<0.429	<0.0018	<0.0439	<0.241	0.5	0.5
1,2-EDB	<0.0454	0.0302	<0.0456	<0.429	<0.0018	<0.0439	<0.241	0.005	0.005
Total Lead	5.5	9.4	5.4	17.7	8.1	5.9	8.1	450.0	45.0

1,2-EDC 1,2-Dichloroethane
 1,2-EDB 1,2-Dibromoethane
 MTBE Methyl Tert Butyl Ether
 1,2,4-TMB 1,2,4-Trimethylbenzene
 1,3,5-TMB 1,3,5-Trimethylbenzene
 NS Not Sampled
 ND Not Detected
 NA Not Analyzed

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

 Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

 Shaded values indicate Act 2 SHS exceedances - Saturated Zone**

Condition:

Vadose: Vadose Zone - Unsaturated MSCs Apply
 Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply
 PSZ: Permanently Saturated Zone - Saturated MSCs Apply


09/26/16


TABLE W-1
Site Characterization Activities
Lewis Brothers Garage Property
Soil Sample Analytical Data Summary (mg/kg)

Parameter	TB-33B	TB-34A	TB-34B	TB-35A	TB-35B	TB-36A	TB-36B	SHS MSC*	SHS MSC**
Depth	16.0' - 17.0'	9.0' - 10.0'	19.0' - 20.0'	6.5' - 7.5'	17.0' - 18.0'	6.5' - 7.5'	11.5' - 12.5'		
Condition	Smear	Vadose	Smear	Vadose	Smear	Smear	Smear		
Sample Date	11/18/2015	11/18/2015	11/18/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015		
MTBE	0.316	<0.0507	0.755	<0.0018	<0.0022	<0.0435	<0.0428	2.0	2.0
Benzene	3.6	0.478	2.55	<0.0018	0.0798	<0.0435	0.121	0.5	0.5
Ethylbenzene	3.3	5.35	0.0904	<0.0018	0.203	0.0975	8.28	70.0	70.0
Cumene	0.408	0.971	0.0056	<0.0018	0.0198	0.704	1.98	600.0	84.0
Toluene	16.8	0.453	2.9	<0.0018	0.897	<0.0435	2.09	100.0	100.0
Naphthalene	0.753	1.79	0.0077	<0.0018	0.0427	0.231	3.64	25.0	10.0
Total Xylenes	17.5	17.1	1.64	<0.0054	1.09	<0.131	29.3	1,000.0	1,000.0
1,3,5-TMB	2.12	5.36	0.0147	<0.0018	0.0851	5.97	9.86	74.0	42.0
1,2,4-TMB	5.89	14.0	0.0489	<0.0018	0.375	1.25	34.7	8.4	1.5
1,2-EDC	<0.216	<0.0507	0.0028	<0.0018	<0.0022	<0.0435	<0.0428	0.5	0.5
1,2-EDB	<0.216	<0.0507	<0.0016	<0.0018	<0.0022	<0.0435	<0.0428	0.005	0.005
Total Lead	4.9	7.2	5.9	6.1	7.9	10.6	4.6	450.0	45.0

1,2-EDC 1,2-Dichloroethane
 1,2-EDB 1,2-Dibromoethane
 MTBE Methyl Tert Butyl Ether
 1,2,4-TMB 1,2,4-Trimethylbenzene
 1,3,5-TMB 1,3,5-Trimethylbenzene
 NS Not Sampled
 ND Not Detected
 NA Not Analyzed

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

 Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

 Shaded values indicate Act 2 SHS exceedances - Saturated Zone**

Condition:

Vadose: Vadose Zone - Unsaturated MSCs Apply
 Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply
 PSZ: Permanently Saturated Zone - Saturated MSCs Apply


09/26/16


TABLE W-1
Site Characterization Activities
Lewis Brothers Garage Property
Soil Sample Analytical Data Summary (mg/kg)

Parameter	TB-37A	TB-37B	TB-38A	TB-38B	TB-39A	TB-39B	TB-40A	SHS MSC*	SHS MSC**
Depth	7.5' - 8.5'	18.0' - 19.0'	9.0' - 10.0'	18.0' - 19.0'	5.0' - 6.0'	13.5' - 14.5'	9.0' - 10.0'		
Condition	Vadose	Smear	Smear	PSZ	Vadose	Smear	Vadose		
Sample Date	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015		
MTBE	<0.0017	0.0305	0.0027	<0.0389	<0.0019	<0.0017	<0.002	2.0	2.0
Benzene	<0.0017	0.332	0.625	0.493	<0.0019	0.0091	<0.002	0.5	0.5
Ethylbenzene	<0.0017	0.0861	0.0895	6.61	<0.0019	<0.0017	<0.002	70.0	70.0
Cumene	<0.0017	0.0062	0.0044	1.59	<0.0019	<0.0017	<0.002	600.0	84.0
Toluene	<0.0017	1.23	2.39	4.05	<0.0019	<0.0017	<0.002	100.0	100.0
Naphthalene	<0.0017	0.0097	0.0153	4.07	<0.0019	<0.0017	<0.002	25.0	10.0
Total Xylenes	0.0055	1.26	1.34	42.9	<0.0057	<0.0052	<0.006	1,000.0	1,000.0
1,3,5-TMB	<0.0017	0.0206	0.0195	7.69	<0.0019	<0.0017	<0.002	74.0	42.0
1,2,4-TMB	<0.0017	0.0665	0.0496	27.9	<0.0019	<0.0017	<0.002	8.4	1.5
1,2-EDC	<0.0017	<0.0019	<0.0017	<0.0389	<0.0019	<0.0017	<0.002	0.5	0.5
1,2-EDB	<0.0017	<0.0019	<0.0017	<0.0389	<0.0019	<0.0017	<0.002	0.005	0.005
Total Lead	7.3	7.4	13.9	4.6	7.4	8.4	9.8	450.0	45.0

1,2-EDC 1,2-Dichloroethane
 1,2-EDB 1,2-Dibromoethane
 MTBE Methyl Tert Butyl Ether
 1,2,4-TMB 1,2,4-Trimethylbenzene
 1,3,5-TMB 1,3,5-Trimethylbenzene
 NS Not Sampled
 ND Not Detected
 NA Not Analyzed

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

 Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

 Shaded values indicate Act 2 SHS exceedances - Saturated Zone**

Condition:

Vadose: Vadose Zone - Unsaturated MSCs Apply

Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply

PSZ: Permanently Saturated Zone - Saturated MSCs Apply


09/26/16

TABLE W-1
Site Characterization Activities
Lewis Brothers Garage Property
Soil Sample Analytical Data Summary (mg/kg)

Parameter	TB-40B	SHS MSC*	SHS MSC**
Depth	13.0' - 14.0'		
Condition	Smear		
Sample Date	11/11/2015		
MTBE	<0.0019	2.0	2.0
Benzene	<0.0019	0.5	0.5
Ethylbenzene	<0.0019	70.0	70.0
Cumene	<0.0019	600.0	84.0
Toluene	<0.0019	100.0	100.0
Naphthalene	<0.0019	25.0	10.0
Total Xylenes	<0.0056	1,000.0	1,000.0
1,3,5-TMB	<0.0019	74.0	42.0
1,2,4-TMB	<0.0019	8.4	1.5
1,2-EDC	<0.0019	0.5	0.5
1,2-EDB	<0.0019	0.005	0.005
Total Lead	7.0	450.0	45.0

1,2-EDC 1,2-Dichloroethane
 1,2-EDB 1,2-Dibromoethane
 MTBE Methyl Tert Butyl Ether
 1,2,4-TMB 1,2,4-Trimethylbenzene
 1,3,5-TMB 1,3,5-Trimethylbenzene
 NS Not Sampled
 ND Not Detected
 NA Not Analyzed

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

 Shaded values indicate Act 2 SHS exceedances - Unsaturated Zone*

 Shaded values indicate Act 2 SHS exceedances - Saturated Zone**

Condition:

Vadose: Vadose Zone - Unsaturated MSCs Apply

Smear: Zone of Groundwater Saturation (Smear Zone) - Saturated MSCs Apply

PSZ: Permanently Saturated Zone - Saturated MSCs Apply

QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 11, 2008

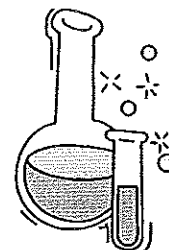
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 9:10
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB1A				
MTBE	< 0.238	mg/Kg	EPA 8260B	08-Mar-08
Benzene	< 0.238	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	5.79	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	3.10	mg/Kg	EPA 8260B	08-Mar-08
Toluene	< 0.595	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	5.45	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	12.7	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	11.9	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	38.4	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 11, 2008

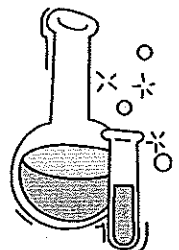
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 9:20
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB1B				
MTBE	< 0.284	mg/Kg	EPA 8260B	08-Mar-08
Benzene	< 0.284	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	13.8	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	2.37	mg/Kg	EPA 8260B	08-Mar-08
Toluene	9.21	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	4.89	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	75.2	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	10.2	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	33.8	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 11, 2008

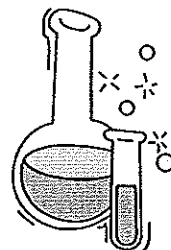
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 9:57
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB2A				
MTBE	< 0.246	mg/Kg	EPA 8260B	08-Mar-08
Benzene	13.8	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	18.9	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	2.86	mg/Kg	EPA 8260B	08-Mar-08
Toluene	71.3	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	6.37	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	115	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	14.5	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	47.6	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 11, 2008

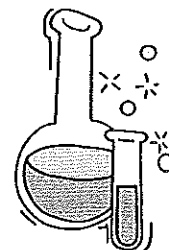
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 11:00
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB3A				
MTBE	< 0.238	mg/Kg	EPA 8260B	08-Mar-08
Benzene	9.08	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	35.0	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	5.67	mg/Kg	EPA 8260B	08-Mar-08
Toluene	61.1	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	13.2	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	216	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	29.0	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	95.8	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

March 11, 2008

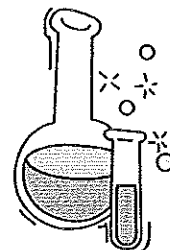
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 11:35
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB4A				
MTBE	< 0.252	mg/Kg	EPA 8260B	08-Mar-08
Benzene	173	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	180	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	20.8	mg/Kg	EPA 8260B	08-Mar-08
Toluene	838	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	42.3	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	1260	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	122	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	446	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 11, 2008

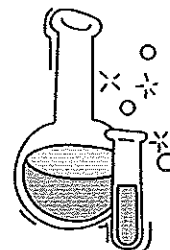
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 12:48
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB6A				
MTBE	< 0.242	mg/Kg	EPA 8260B	08-Mar-08
Benzene	2.42	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	5.75	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	0.721	mg/Kg	EPA 8260B	08-Mar-08
Toluene	21.2	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	2.14	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	35.3	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	3.97	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	13.9	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 11, 2008

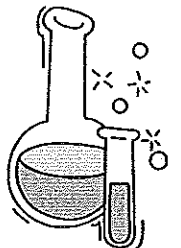
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 13:30
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB7A				
MTBE	< 0.250	mg/Kg	EPA 8260B	08-Mar-08
Benzene	8.86	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	22.0	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	2.460	mg/Kg	EPA 8260B	08-Mar-08
Toluene	62.4	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	8.02	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	119	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	14.2	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	46.7	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 11, 2008

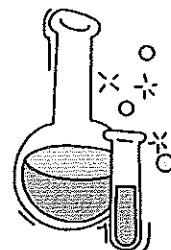
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 14:11
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB8A				
MTBE	< 0.240	mg/Kg	EPA 8260B	08-Mar-08
Benzene	20.5	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	20.3	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	2.30	mg/Kg	EPA 8260B	08-Mar-08
Toluene	85.9	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	7.72	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	116	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	13.2	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	43.3	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

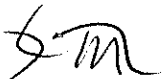
ANALYTICAL REPORT

March 11, 2008

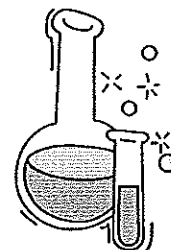
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 15:13
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB9A				
MTBE	< 0.274	mg/Kg	EPA 8260B	08-Mar-08
Benzene	< 0.274	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	< 0.685	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	< 0.685	mg/Kg	EPA 8260B	08-Mar-08
Toluene	< 0.685	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	< 1.37	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	< 2.06	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	1.78	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	5.17	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 11, 2008

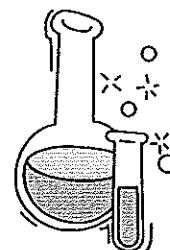
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 28-Feb-08
Sample Time: 15:20
Sampled By: client
Received By: RP
Date Received: 29-Feb-08
Time Received: 12:50

Parameter	Result	Units	Method	Analyzed
058-0228-TB9B				
MTBE	< 0.240	mg/Kg	EPA 8260B	08-Mar-08
Benzene	< 0.240	mg/Kg	EPA 8260B	08-Mar-08
Ethylbenzene	< 0.600	mg/Kg	EPA 8260B	08-Mar-08
Isopropylbenzene	< 0.600	mg/Kg	EPA 8260B	08-Mar-08
Toluene	< 0.600	mg/Kg	EPA 8260B	08-Mar-08
Naphthalene	< 1.20	mg/Kg	EPA 8260B	08-Mar-08
Xylenes (total)	< 1.80	mg/Kg	EPA 8260B	08-Mar-08
1,3,5-Trimethylbenzene	< 0.600	mg/Kg	EPA 8260B	08-Mar-08
1,2,4-Trimethylbenzene	< 0.600	mg/Kg	EPA 8260B	08-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 26, 2008

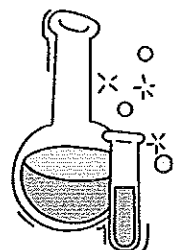
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 10:15
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB12A				
MTBE	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Benzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Toluene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	< 0.015	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

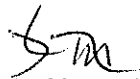
ANALYTICAL REPORT

March 26, 2008

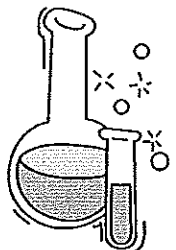
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 10:44
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB13A				
MTBE	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Benzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Toluene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	< 0.015	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

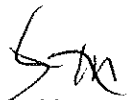
ANALYTICAL REPORT

March 26, 2008

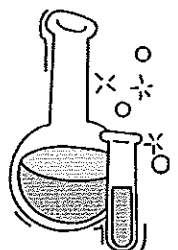
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 11:08
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB13B				
MTBE	0.065	mg/Kg	EPA 8260B	12-Mar-08
Benzene	0.631	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	0.008	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Toluene	0.078	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	0.025	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

March 26, 2008

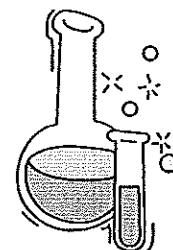
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 11:29
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB14A				
MTBE	< 0.248	mg/Kg	EPA 8260B	12-Mar-08
Benzene	0.853	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08
Toluene	2.67	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	< 1.86	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 26, 2008

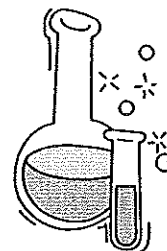
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 13:00
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB15A				
MTBE	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Benzene	0.167	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	0.065	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Toluene	0.880	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	0.008	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	0.266	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	0.010	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	0.034	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

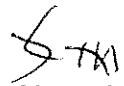
ANALYTICAL REPORT

March 26, 2008

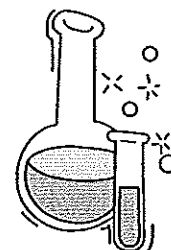
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 13:30
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB16A				
MTBE	< 0.248	mg/Kg	EPA 8260B	12-Mar-08
Benzene	0.487	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08
Toluene	2.01	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	2.54	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	< 0.620	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 26, 2008

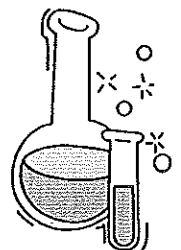
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 14:26
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB17A				
MTBE	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Benzene	0.035	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	0.015	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Toluene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	0.005	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	0.015	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	0.005	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	0.011	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

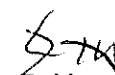
ANALYTICAL REPORT

March 26, 2008

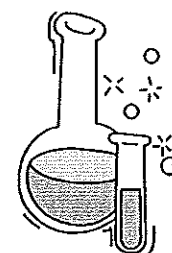
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 14:40
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB18A				
MTBE	< 0.240	mg/Kg	EPA 8260B	12-Mar-08
Benzene	< 0.240	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	1.21	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.600	mg/Kg	EPA 8260B	12-Mar-08
Toluene	1.39	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	0.744	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	7.81	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	1.90	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	5.75	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

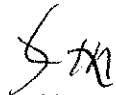
ANALYTICAL REPORT

March 26, 2008

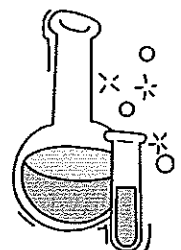
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 14:52
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB18B				
MTBE	< 0.238	mg/Kg	EPA 8260B	12-Mar-08
Benzene	0.694	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	2.78	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.595	mg/Kg	EPA 8260B	12-Mar-08
Toluene	6.76	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	1.21	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	16.7	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	2.27	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	7.57	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 26, 2008

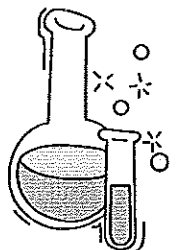
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 15:02
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB18C				
MTBE	< 0.216	mg/Kg	EPA 8260B	12-Mar-08
Benzene	1.08	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	< 0.540	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.540	mg/Kg	EPA 8260B	12-Mar-08
Toluene	3.46	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	< 0.540	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	1.96	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	< 0.540	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	< 0.540	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 26, 2008

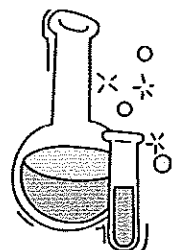
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 15:49
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB19A				
MTBE	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Benzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Toluene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	< 0.015	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

March 26, 2008

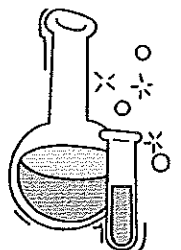
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Soil
Sample Date: 03-Mar-08
Sample Time: 17:07
Sampled By: client
Received By: VR
Date Received: 04-Mar-08
Time Received: 13:55

Parameter	Result	Units	Method	Analyzed
058-0303-TB21A				
MTBE	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Benzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Ethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Toluene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Naphthalene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
Xylenes (total)	< 0.015	mg/Kg	EPA 8260B	12-Mar-08
1,3,5-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08
1,2,4-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	12-Mar-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 FAX: (570) 489-6965



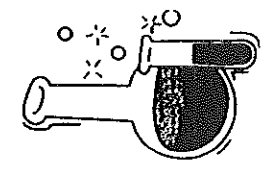
QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.
 Dickson City Industrial Park
 824 Enterprise Street
 Dickson City, PA 18519-1593

CHAIN OF CUSTODY

Special Requirements
 PA DEP ASTM TCLP
 RCRA UST FORM U
 FORM 43

Other _____
 pH _____ Temp _____
 TAT: RUSH NORMAL



PROJECT: 27058

Sample Description	Location	Date Sampled	Time Sampled	Matrix	# of Cont / Size	PRSV / Cont Type	Grab / Composite	ANALYSIS TO BE PERFORMED			Invoice #	PO #
								P - Plastic	CG - Glass	AG - Amber Glass		
058-0228-TA1A		2/27/08	0910	SO	4/16oz	*	G	X	X	X	001-022908	10122
058-0228-TB1B		2/27/08	0920	SO	4/16oz	*	G	X	X	X	002-022908	
058-0228-TB2A		2/27/08	0957	SO	4/16oz	*	G	X	X	X	003-022908	
058-0228-TB3A		2/27/08	1100	SO	4/16oz	*	G	X	X	X	004-022908	
058-0228-TB4A		2/27/08	1135	SO	4/16oz	*	G	X	X	X	005-022908	
058-0228-TB6A		2/27/08	1248	SO	4/16oz	*	G	X	X	X	006-022908	
058-0228-TB7A		2/27/08	1330	SO	4/16oz	*	G	X	X	X	007-022908	
058-0228-TB8A		2/27/08	1411	SO	4/16oz	*	G	X	X	X	008-022908	
058-0228-TB9A		2/27/08	1513	SO	4/16oz	*	G	X	X	X	009-022908	
058-0228-TB9B		2/27/08	1520	SO	4/16oz	*	G	X	X	X	010-022908	

Comments: * SAMPLE KET SUPPLIED BY CAS

Intact Containers Y N Within Holding Times Y N
 COC Complete Y N Labels Match COC Y N
 Properly Preserved Y N Rec'd on Ice Y N

Hand Delivered

Sampler: D. Cecasnyf
 Relinquished By: [Signature] Date: 2/29/08 Time: 0700
 Relinquished By: Susan Nark Date: 2/29/08 Time: 1250

Received By: Susan Nark Date: 2/29/08 Time: 0700
 Received By: Palak Palank Date: 2/29/08 Time: 1250

Report to: Pennsylvania Tectonics
 826 Main Street
 Peckville PA 18452
 Contact: Martin Gileallon
 Phone: 487-1959 Fax: 487-1961
 Bill to: Pennsylvania Tectonics
 826 Main Street
 Peckville PA 18452

QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 18, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058.03
Sample Matrix: Soil
Sample Date: 12-Jun-08
Sample Time: 11:34
Sampled By: Client
Received By: MN
Date Received: 12-Jun-08
Time Received: 14:31

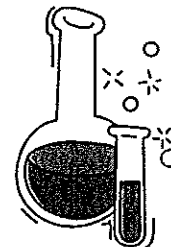
Parameter	Result	Units	Method	Analyzed
058.0612.TB22				
MTBE	0.008	mg/Kg	EPA 8260B	20-Jun-08
Benzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Ethylbenzene	0.027	mg/Kg	EPA 8260B	20-Jun-08
Isopropylbenzene	0.007	mg/Kg	EPA 8260B	20-Jun-08
Toluene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Naphthalene	0.156	mg/Kg	EPA 8260B	20-Jun-08
Xylenes (total)	0.083	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dichloroethane	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
1,2,4-Trimethylbenzene	0.250	mg/Kg	EPA 8260B	20-Jun-08
1,3,5-Trimethylbenzene	0.082	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dibromoethane	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Lead (total)	6.48	mg/Kg	EPA 6010B	01-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 18, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058.03
Sample Matrix: Soil
Sample Date: 12-Jun-08
Sample Time: 12:23
Sampled By: Client
Received By: MN
Date Received: 12-Jun-08
Time Received: 14:31

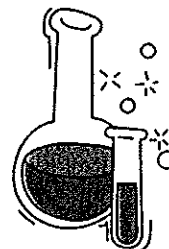
Parameter	Result	Units	Method	Analyzed
058.0612.TB23A				
MTBE	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Benzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Ethylbenzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Toluene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Naphthalene	0.025	mg/Kg	EPA 8260B	20-Jun-08
Xylenes (total)	< 0.015	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dichloroethane	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
1,2,4-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
1,3,5-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dibromoethane	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Lead (total)	8.44	mg/Kg	EPA 6010B	01-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 18, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058.03
Sample Matrix: Soil
Sample Date: 12-Jun-08
Sample Time: 12:44
Sampled By: Client
Received By: MN
Date Received: 12-Jun-08
Time Received: 14:31

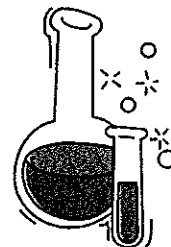
Parameter	Result	Units	Method	Analyzed
058.0612.TB23B				
MTBE	< 1.57	mg/Kg	EPA 8260B	20-Jun-08
Benzene	4.76	mg/Kg	EPA 8260B	20-Jun-08
Ethylbenzene	26.5	mg/Kg	EPA 8260B	20-Jun-08
Isopropylbenzene	4.06	mg/Kg	EPA 8260B	20-Jun-08
Toluene	42.1	mg/Kg	EPA 8260B	20-Jun-08
Naphthalene	7.46	mg/Kg	EPA 8260B	20-Jun-08
Xylenes (total)	154	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dichloroethane	< 1.57	mg/Kg	EPA 8260B	20-Jun-08
1,2,4-Trimethylbenzene	61.6	mg/Kg	EPA 8260B	20-Jun-08
1,3,5-Trimethylbenzene	18.5	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dibromoethane	< 1.57	mg/Kg	EPA 8260B	20-Jun-08
Lead (total)	10.3	mg/Kg	EPA 6010B	01-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 18, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058.03
Sample Matrix: Soil
Sample Date: 12-Jun-08
Sample Time: 13:25
Sampled By: Client
Received By: MN
Date Received: 12-Jun-08
Time Received: 14:31

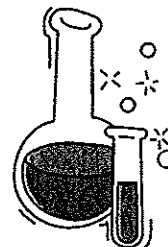
Parameter	Result	Units	Method	Analyzed
058.0612.TB24				
MTBE	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Benzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Ethylbenzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Toluene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Naphthalene	0.088	mg/Kg	EPA 8260B	20-Jun-08
Xylenes (total)	< 0.015	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dichloroethane	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
1,2,4-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
1,3,5-Trimethylbenzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dibromoethane	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Lead (total)	6.40	mg/Kg	EPA 6010B	01-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 18, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058.03
Sample Matrix: Soil
Sample Date: 12-Jun-08
Sample Time: 14:05
Sampled By: Client
Received By: MN
Date Received: 12-Jun-08
Time Received: 14:31

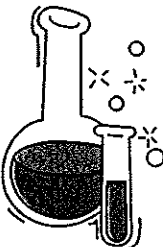
Parameter	Result	Units	Method	Analyzed
058.0612.TB25				
MTBE	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Benzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Ethylbenzene	0.014	mg/Kg	EPA 8260B	20-Jun-08
Isopropylbenzene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Toluene	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Naphthalene	0.070	mg/Kg	EPA 8260B	20-Jun-08
Xylenes (total)	0.062	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dichloroethane	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
1,2,4-Trimethylbenzene	0.203	mg/Kg	EPA 8260B	20-Jun-08
1,3,5-Trimethylbenzene	0.056	mg/Kg	EPA 8260B	20-Jun-08
1,2-Dibromoethane	< 0.005	mg/Kg	EPA 8260B	20-Jun-08
Lead (total)	8.06	mg/Kg	EPA 6010B	01-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



CHAIN OF CUSTODY

Special Requirements

PA DEP ASTM TCLP
 RCRA USE FORM U
 FORM 43

Other _____
 pH _____ Temp _____
 TAT: RUSH NORMAL

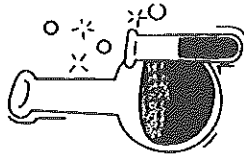
PROJECT: 27058.03

Location

Sample Description

058. 0612. T322 6/12/08 1124
 058. 0612. T323A 6/12/08 1223
 058. 0612. T323B 6/12/08 1244
 058. 0612. T324 6/12/08 1325
 058. 0612. T325 6/12/08 1405

Date Sampled
 Time Sampled



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

Dickson City Industrial Park
 824 Enterprise Street
 Dickson City, PA 18519-1593

DW - Drinking Water SL - Sludge
 GW - Ground Water SO - Soil
 SW - Surface Water HZ - Hazardous
 WW - Waste Water Other

P - Plastic
 CG - Glass

AG - Amber Glass
 O - Other

PO#

ANALYSIS TO BE PERFORMED

Invoice # 10355

Matrix	# of Cont / Size	PRSV / Cont Type	Grab / Composite	ANALYSIS TO BE PERFORMED				Quantum ID
				LEAD (ppm)	1.2V-TMB	1.5V-TMB		
50	4	*	G	X	X	X	036-061208	
50	4	*	G	X	X	X	037-	
50	4	*	G	X	X	X	038-	
50	4	*	G	X	X	X	039-	
50	4	*	G	X	X	X	040-	

Comments: * use surface small lot

Intact Containers Y N Within Holding Times Y N
 COC Complete Y N Labels Match COC Y N
 Properly Preserved Y N Rec'd on Ice Y N

Shipped Hand Delivered

Sampler: M. GILGALLON
 Relinquished By: [Signature] Date: 6/12/08 Time: 1430
 Relinquished By: _____ Date: _____ Time: _____

Phone: (570) 489-6964

Page 1 of 1

Fax: (570) 489-6965

Report to: Pennsylvania TECTONICS INC
 826 MAIN ST
 RECKVILLE PA 18452
 Contact: M. GILGALLON
 Phone: 487.1959 Fax: 487.1961
 Bill to: PENNSYLVANIA TECTONICS INC
 826 MAIN ST
 RECKVILLE PA 18452

March 16, 2016

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Revised Report - 3/16/2016 6:04:01 PM - See workorder comment section for explanation

Project Name:	27058 Lewis Brothers Garage	Workorder:	2107705
Purchase Order:		Workorder ID:	27058 Lewis Brothers Garage

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Thursday, November 12, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

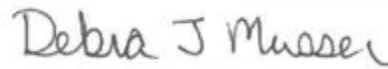
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



SAMPLE SUMMARY

Workorder: 2107705 27058 Lewis Brothers Garage

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2107705001	058-1110-TB26A	Solid	11/11/2015 13:24	11/12/2015 11:15	Collected by Client
2107705002	058-1110-TB26B	Solid	11/11/2015 13:30	11/12/2015 11:15	Collected by Client
2107705003	058-1110-TB29A	Solid	11/11/2015 12:08	11/12/2015 11:15	Collected by Client
2107705004	058-1110-TB29B	Solid	11/11/2015 12:20	11/12/2015 11:15	Collected by Client
2107705005	058-1110-TB30A	Solid	11/11/2015 13:59	11/12/2015 11:15	Collected by Client
2107705006	058-1110-TB30B	Solid	11/11/2015 14:05	11/12/2015 11:15	Collected by Client
2107705007	058-1110-TB31A	Solid	11/11/2015 14:24	11/12/2015 11:15	Collected by Client
2107705008	058-1110-TB31B	Solid	11/11/2015 14:30	11/12/2015 11:15	Collected by Client
2107705009	058-1110-TB32A	Solid	11/11/2015 14:57	11/12/2015 11:15	Collected by Client
2107705010	058-1110-TB32B	Solid	11/11/2015 15:11	11/12/2015 11:15	Collected by Client
2107705011	058-1110-TB35A	Solid	11/11/2015 11:20	11/12/2015 11:15	Collected by Client
2107705012	058-1110-TB35B	Solid	11/11/2015 11:32	11/12/2015 11:15	Collected by Client
2107705013	058-1110-TB36A	Solid	11/11/2015 11:08	11/12/2015 11:15	Collected by Client
2107705014	058-1110-TB36B	Solid	11/11/2015 11:11	11/12/2015 11:15	Collected by Client
2107705015	058-1110-TB37A	Solid	11/11/2015 10:18	11/12/2015 11:15	Collected by Client
2107705016	058-1110-TB37B	Solid	11/11/2015 10:32	11/12/2015 11:15	Collected by Client
2107705017	058-1110-TB38A	Solid	11/11/2015 09:25	11/12/2015 11:15	Collected by Client
2107705018	058-1110-TB38B	Solid	11/11/2015 09:31	11/12/2015 11:15	Collected by Client
2107705019	058-1110-TB39A	Solid	11/11/2015 09:43	11/12/2015 11:15	Collected by Client
2107705020	058-1110-TB39B	Solid	11/11/2015 09:53	11/12/2015 11:15	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2107705 27058 Lewis Brothers Garage

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



PROJECT SUMMARY

Workorder: 2107705 27058 Lewis Brothers Garage

Workorder Comments

This report was revised to include MTBE on TB-30B and TB-31A. DJM

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705001** Date Collected: 11/11/2015 13:24 Matrix: Solid
 Sample ID: **058-1110-TB26A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	241		ug/kg	42.4	SW846 8260C	11/11/15 13:24	SYB	11/18/15 13:20	SYB	C
1,2-Dibromoethane	ND		ug/kg	1.8	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
1,2-Dichloroethane	ND		ug/kg	1.8	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
Ethylbenzene	63.3		ug/kg	1.8	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
Isopropylbenzene	3.9		ug/kg	1.8	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
Methyl t-Butyl Ether	6.2		ug/kg	1.8	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
Naphthalene	7.6		ug/kg	1.8	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
Toluene	180		ug/kg	1.8	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
Total Xylenes	130		ug/kg	5.4	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
1,2,4-Trimethylbenzene	17.8		ug/kg	1.8	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
1,3,5-Trimethylbenzene	6.0		ug/kg	1.8	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84		%	56 - 124	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.9		%	71 - 146	SW846 8260C	11/11/15 13:24	SYB	11/18/15 13:20	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	112		%	51 - 128	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	110		%	46 - 138	SW846 8260C	11/11/15 13:24	SYB	11/18/15 13:20	SYB	C
Dibromofluoromethane (S)	84.2		%	42 - 143	SW846 8260C	11/11/15 13:24	SYB	11/18/15 13:20	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	91.4		%	62 - 123	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	91.7		%	54 - 141	SW846 8260C	11/11/15 13:24	SYB	11/18/15 13:20	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	91.4		%	59 - 131	SW846 8260C	11/11/15 13:24	CJG	11/17/15 05:00	CJG	A
WET CHEMISTRY										
Moisture	11.0		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	89.0		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	7.5		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 15:29	MO	D1

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

Lab ID: 2107705001 Date Collected: 11/11/2015 13:24 Matrix: Solid
Sample ID: 058-1110-TB26A Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
------------	---------	------	-------	-----	--------	----------	----	----------	----	-------

Debra J Musser
Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705002** Date Collected: 11/11/2015 13:30 Matrix: Solid
 Sample ID: **058-1110-TB26B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	260		ug/kg	39.4	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
1,2-Dibromoethane	ND		ug/kg	1.8	SW846 8260C	11/11/15 13:30	CJG	11/17/15 05:24	CJG	A
1,2-Dichloroethane	ND		ug/kg	1.8	SW846 8260C	11/11/15 13:30	CJG	11/17/15 05:24	CJG	A
Ethylbenzene	428		ug/kg	39.4	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
Isopropylbenzene	49.9		ug/kg	1.8	SW846 8260C	11/11/15 13:30	CJG	11/17/15 05:24	CJG	A
Methyl t-Butyl Ether	4.1		ug/kg	1.8	SW846 8260C	11/11/15 13:30	CJG	11/17/15 05:24	CJG	A
Naphthalene	42.9		ug/kg	1.8	SW846 8260C	11/11/15 13:30	CJG	11/17/15 05:24	CJG	A
Toluene	701		ug/kg	39.4	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
Total Xylenes	1740		ug/kg	118	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
1,2,4-Trimethylbenzene	1000		ug/kg	39.4	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
1,3,5-Trimethylbenzene	297		ug/kg	39.4	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	124		%	71 - 146	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	56 - 124	SW846 8260C	11/11/15 13:30	CJG	11/17/15 05:24	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	148	1	%	46 - 138	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	106		%	51 - 128	SW846 8260C	11/11/15 13:30	CJG	11/17/15 05:24	CJG	A
Dibromofluoromethane (S)	88.3		%	62 - 123	SW846 8260C	11/11/15 13:30	CJG	11/17/15 05:24	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	115		%	42 - 143	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
Toluene-d8 (S)	129		%	54 - 141	SW846 8260C	11/11/15 13:30	SYB	11/18/15 13:43	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	88.5		%	59 - 131	SW846 8260C	11/11/15 13:30	CJG	11/17/15 05:24	CJG	A
WET CHEMISTRY										
Moisture	11.7		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	88.3		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	8.3		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 15:44	MO	D1

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

Lab ID: 2107705002 Date Collected: 11/11/2015 13:30 Matrix: Solid
Sample ID: 058-1110-TB26B Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
------------	---------	------	-------	-----	--------	----------	----	----------	----	------

Debra J Musser
Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

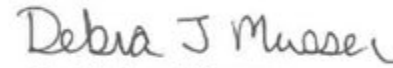
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705003** Date Collected: 11/11/2015 12:08 Matrix: Solid
 Sample ID: **058-1110-TB29A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
1,2-Dibromoethane	ND		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
1,2-Dichloroethane	ND		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
Ethylbenzene	ND		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
Isopropylbenzene	ND		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
Methyl t-Butyl Ether	ND		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
Naphthalene	2.0		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
Toluene	ND		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
Total Xylenes	ND		ug/kg	5.8	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
1,2,4-Trimethylbenzene	2.2		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	73.9		%	56 - 124	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
4-Bromofluorobenzene (S)	75.7		%	51 - 128	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
Dibromofluoromethane (S)	83.7		%	62 - 123	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
Toluene-d8 (S)	76.7		%	59 - 131	SW846 8260C	11/11/15 12:08	TMP	11/17/15 13:42	TMP	B
WET CHEMISTRY										
Moisture	8.6		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	91.4		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	7.9		mg/kg	0.91	SW846 6020A	11/16/15 10:50	JPS	11/16/15 15:48	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

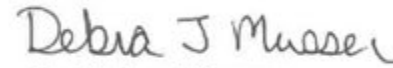
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705004** Date Collected: 11/11/2015 12:20 Matrix: Solid
 Sample ID: **058-1110-TB29B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
1,2-Dibromoethane	ND		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
1,2-Dichloroethane	ND		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
Ethylbenzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
Isopropylbenzene	2.9		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
Methyl t-Butyl Ether	ND		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
Naphthalene	ND		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
Toluene	ND		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
Total Xylenes	ND		ug/kg	5.2	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
1,2,4-Trimethylbenzene	25.8		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
1,3,5-Trimethylbenzene	10.9		ug/kg	1.7	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86.1		%	56 - 124	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
4-Bromofluorobenzene (S)	110		%	51 - 128	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
Dibromofluoromethane (S)	95.3		%	62 - 123	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
Toluene-d8 (S)	96.3		%	59 - 131	SW846 8260C	11/11/15 12:08	CJG	11/17/15 06:10	CJG	A
WET CHEMISTRY										
Moisture	7.4		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	92.6		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	5.2		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 15:52	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

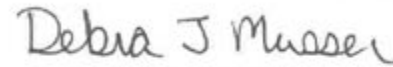
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705005** Date Collected: 11/11/2015 13:59 Matrix: Solid
 Sample ID: **058-1110-TB30A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
VOLATILE ORGANICS										
Benzene	3110		ug/kg	45.4	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
1,2-Dibromoethane	ND		ug/kg	45.4	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
1,2-Dichloroethane	ND		ug/kg	45.4	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
Ethylbenzene	9520		ug/kg	908	SW846 8260C	11/11/15 13:59	DD	11/23/15 15:00	DD	C
Isopropylbenzene	1580		ug/kg	45.4	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
Methyl t-Butyl Ether	ND		ug/kg	45.4	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
Naphthalene	3540		ug/kg	90.8	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
Toluene	25400		ug/kg	908	SW846 8260C	11/11/15 13:59	DD	11/23/15 15:00	DD	C
Total Xylenes	50400		ug/kg	2720	SW846 8260C	11/11/15 13:59	DD	11/23/15 15:00	DD	C
1,2,4-Trimethylbenzene	29700		ug/kg	908	SW846 8260C	11/11/15 13:59	DD	11/23/15 15:00	DD	C
1,3,5-Trimethylbenzene	8420		ug/kg	908	SW846 8260C	11/11/15 13:59	DD	11/23/15 15:00	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Contr</i>
1,2-Dichloroethane-d4 (S)	134		%	71 - 146	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
1,2-Dichloroethane-d4 (S)	70.1	2	%	71 - 146	SW846 8260C	11/11/15 13:59	DD	11/23/15 15:00	DD	C
4-Bromofluorobenzene (S)	125		%	46 - 138	SW846 8260C	11/11/15 13:59	DD	11/23/15 15:00	DD	C
4-Bromofluorobenzene (S)	148	1	%	46 - 138	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
Dibromofluoromethane (S)	68.7		%	42 - 143	SW846 8260C	11/11/15 13:59	DD	11/23/15 15:00	DD	C
Dibromofluoromethane (S)	108		%	42 - 143	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
Toluene-d8 (S)	130		%	54 - 141	SW846 8260C	11/11/15 13:59	JAH	11/20/15 16:12	DD	C
Toluene-d8 (S)	81		%	54 - 141	SW846 8260C	11/11/15 13:59	DD	11/23/15 15:00	DD	C
WET CHEMISTRY										
Moisture	8.4		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	91.6		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	5.5		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 15:56	MO	D1



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705006** Date Collected: 11/11/2015 14:05 Matrix: Solid
 Sample ID: **058-1110-TB30B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	1900		ug/kg	41.1	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
1,2-Dibromoethane	30.2		ug/kg	1.6	SW846 8260C	11/11/15 14:05	CJG	11/17/15 06:33	CJG	A
1,2-Dichloroethane	29.0		ug/kg	1.6	SW846 8260C	11/11/15 14:05	CJG	11/17/15 06:33	CJG	A
Ethylbenzene	1500		ug/kg	41.1	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
Isopropylbenzene	191		ug/kg	41.1	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
Methyl t-Butyl Ether	453		ug/kg	41.1	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
Naphthalene	816		ug/kg	82.2	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
Toluene	6980		ug/kg	41.1	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
Total Xylenes	8760		ug/kg	123	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
1,2,4-Trimethylbenzene	5290		ug/kg	41.1	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
1,3,5-Trimethylbenzene	1190		ug/kg	41.1	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	139		%	71 - 146	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	124		%	56 - 124	SW846 8260C	11/11/15 14:05	CJG	11/17/15 06:33	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	162	2	%	46 - 138	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	103		%	51 - 128	SW846 8260C	11/11/15 14:05	CJG	11/17/15 06:33	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	126		%	42 - 143	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	77.5		%	62 - 123	SW846 8260C	11/11/15 14:05	CJG	11/17/15 06:33	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	145	1	%	54 - 141	SW846 8260C	11/11/15 14:05	SYB	11/18/15 14:06	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	82.4		%	59 - 131	SW846 8260C	11/11/15 14:05	CJG	11/17/15 06:33	CJG	A
WET CHEMISTRY										
Moisture	10.5		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	89.5		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

Lab ID: **2107705006** Date Collected: 11/11/2015 14:05 Matrix: Solid
 Sample ID: **058-1110-TB30B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
Lead, Total	9.4		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:11	MO	D1

Debra J Musser
 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

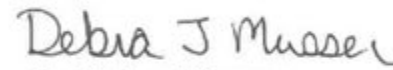
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705007** Date Collected: 11/11/2015 14:24 Matrix: Solid
 Sample ID: **058-1110-TB31A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	58.1		ug/kg	45.6	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
1,2-Dibromoethane	ND		ug/kg	45.6	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
1,2-Dichloroethane	ND		ug/kg	45.6	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
Ethylbenzene	356		ug/kg	45.6	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
Isopropylbenzene	250		ug/kg	45.6	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
Methyl t-Butyl Ether	ND		ug/kg	45.6	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
Naphthalene	500		ug/kg	91.2	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
Toluene	ND		ug/kg	45.6	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
Total Xylenes	524		ug/kg	137	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
1,2,4-Trimethylbenzene	2840		ug/kg	45.6	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
1,3,5-Trimethylbenzene	875		ug/kg	45.6	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.4		%	71 - 146	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
4-Bromofluorobenzene (S)	104		%	46 - 138	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
Dibromofluoromethane (S)	67.5		%	42 - 143	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
Toluene-d8 (S)	81.9		%	54 - 141	SW846 8260C	11/11/15 14:24	DD	11/23/15 15:46	DD	C
WET CHEMISTRY										
Moisture	6.4		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	93.6		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	5.4		mg/kg	0.91	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:15	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

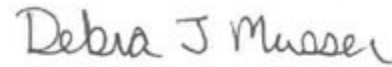
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705008** Date Collected: 11/11/2015 14:30 Matrix: Solid
 Sample ID: **058-1110-TB31B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
VOLATILE ORGANICS										
Benzene	50100		ug/kg	429	SW846 8260C	11/13/15 14:30	JAH	11/20/15 19:59	DD	C
1,2-Dibromoethane	ND		ug/kg	429	SW846 8260C	11/13/15 14:30	JAH	11/20/15 19:59	DD	C
1,2-Dichloroethane	ND		ug/kg	429	SW846 8260C	11/13/15 14:30	JAH	11/20/15 19:59	DD	C
Ethylbenzene	156000		ug/kg	8590	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
Isopropylbenzene	40300		ug/kg	429	SW846 8260C	11/13/15 14:30	JAH	11/20/15 19:59	DD	C
Methyl t-Butyl Ether	ND		ug/kg	429	SW846 8260C	11/13/15 14:30	JAH	11/20/15 19:59	DD	C
Naphthalene	72000		ug/kg	17200	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
Toluene	256000		ug/kg	8590	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
Total Xylenes	811000		ug/kg	25800	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
1,2,4-Trimethylbenzene	433000		ug/kg	8590	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
1,3,5-Trimethylbenzene	121000		ug/kg	8590	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Contr</i>
1,2-Dichloroethane-d4 (S)	105		%	71 - 146	SW846 8260C	11/13/15 14:30	JAH	11/20/15 19:59	DD	C
1,2-Dichloroethane-d4 (S)	71.1		%	71 - 146	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
4-Bromofluorobenzene (S)	127		%	46 - 138	SW846 8260C	11/13/15 14:30	JAH	11/20/15 19:59	DD	C
4-Bromofluorobenzene (S)	119		%	46 - 138	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
Dibromofluoromethane (S)	71.8		%	42 - 143	SW846 8260C	11/13/15 14:30	JAH	11/20/15 19:59	DD	C
Dibromofluoromethane (S)	66.6		%	42 - 143	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
Toluene-d8 (S)	77.4		%	54 - 141	SW846 8260C	11/11/15 14:30	DD	11/23/15 15:23	DD	C
Toluene-d8 (S)	85.6		%	54 - 141	SW846 8260C	11/13/15 14:30	JAH	11/20/15 19:59	DD	C
WET CHEMISTRY										
Moisture	11.7		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	88.3		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	17.7		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:19	MO	D1



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705009** Date Collected: 11/11/2015 14:57 Matrix: Solid
 Sample ID: **058-1110-TB32A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	149		ug/kg	1.8	SW846 8260C	11/11/15 14:57	CJG	11/17/15 06:56	CJG	A
1,2-Dibromoethane	ND		ug/kg	1.8	SW846 8260C	11/11/15 14:57	CJG	11/17/15 06:56	CJG	A
1,2-Dichloroethane	ND		ug/kg	1.8	SW846 8260C	11/11/15 14:57	CJG	11/17/15 06:56	CJG	A
Ethylbenzene	4430		ug/kg	45.9	SW846 8260C	11/11/15 14:57	SYB	11/18/15 14:29	SYB	C
Isopropylbenzene	673		ug/kg	45.9	SW846 8260C	11/11/15 14:57	SYB	11/18/15 14:29	SYB	C
Methyl t-Butyl Ether	2.0		ug/kg	1.8	SW846 8260C	11/11/15 14:57	CJG	11/17/15 06:56	CJG	A
Naphthalene	2780		ug/kg	91.9	SW846 8260C	11/11/15 14:57	SYB	11/18/15 14:29	SYB	C
Toluene	6390		ug/kg	45.9	SW846 8260C	11/11/15 14:57	SYB	11/18/15 14:29	SYB	C
Total Xylenes	19600		ug/kg	1380	SW846 8260C	11/11/15 14:57	JAH	11/20/15 18:51	DD	C
1,2,4-Trimethylbenzene	15800		ug/kg	459	SW846 8260C	11/11/15 14:57	JAH	11/20/15 18:51	DD	C
1,3,5-Trimethylbenzene	4990		ug/kg	45.9	SW846 8260C	11/11/15 14:57	SYB	11/18/15 14:29	SYB	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	143		%	71 - 146	SW846 8260C	11/11/15 14:57	SYB	11/18/15 14:29	SYB	C
1,2-Dichloroethane-d4 (S)	89.4		%	71 - 146	SW846 8260C	11/11/15 14:57	JAH	11/20/15 18:51	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	164	1	%	56 - 124	SW846 8260C	11/11/15 14:57	CJG	11/17/15 06:56	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	172	3	%	46 - 138	SW846 8260C	11/11/15 14:57	SYB	11/18/15 14:29	SYB	C
4-Bromofluorobenzene (S)	124		%	46 - 138	SW846 8260C	11/11/15 14:57	JAH	11/20/15 18:51	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	108		%	51 - 128	SW846 8260C	11/11/15 14:57	CJG	11/17/15 06:56	CJG	A
Dibromofluoromethane (S)	70.3		%	62 - 123	SW846 8260C	11/11/15 14:57	CJG	11/17/15 06:56	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	128		%	42 - 143	SW846 8260C	11/11/15 14:57	SYB	11/18/15 14:29	SYB	C
Dibromofluoromethane (S)	87.4		%	42 - 143	SW846 8260C	11/11/15 14:57	JAH	11/20/15 18:51	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	76.2		%	59 - 131	SW846 8260C	11/11/15 14:57	CJG	11/17/15 06:56	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	86.9		%	54 - 141	SW846 8260C	11/11/15 14:57	JAH	11/20/15 18:51	DD	C
Toluene-d8 (S)	148	2	%	54 - 141	SW846 8260C	11/11/15 14:57	SYB	11/18/15 14:29	SYB	C
WET CHEMISTRY										
Moisture	7.9		%	0.1	S2540G-11			11/13/15 09:40	EMW	D

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

Lab ID: **2107705009** Date Collected: 11/11/2015 14:57 Matrix: Solid
Sample ID: **058-1110-TB32A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
Total Solids	92.1		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	8.1		mg/kg	0.99	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:23	MO	D1


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

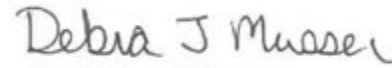
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705010** Date Collected: 11/11/2015 15:11 Matrix: Solid
 Sample ID: **058-1110-TB32B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	229		ug/kg	43.9	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
1,2-Dibromoethane	ND		ug/kg	43.9	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
1,2-Dichloroethane	ND		ug/kg	43.9	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
Ethylbenzene	316		ug/kg	43.9	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
Isopropylbenzene	ND		ug/kg	43.9	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
Methyl t-Butyl Ether	65.4		ug/kg	43.9	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
Naphthalene	156		ug/kg	87.8	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
Toluene	136		ug/kg	43.9	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
Total Xylenes	926		ug/kg	132	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
1,2,4-Trimethylbenzene	475		ug/kg	43.9	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
1,3,5-Trimethylbenzene	154		ug/kg	43.9	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	115		%	71 - 146	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
4-Bromofluorobenzene (S)	130		%	46 - 138	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
Dibromofluoromethane (S)	104		%	42 - 143	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
Toluene-d8 (S)	115		%	54 - 141	SW846 8260C	11/11/15 15:11	JAH	11/20/15 16:57	DD	C
WET CHEMISTRY										
Moisture	9.6		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	90.4		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	5.9		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:26	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

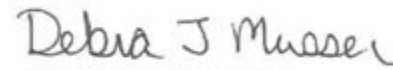
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705011** Date Collected: 11/11/2015 11:20 Matrix: Solid
 Sample ID: **058-1110-TB35A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
1,2-Dibromoethane	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
1,2-Dichloroethane	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
Ethylbenzene	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
Isopropylbenzene	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
Naphthalene	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
Toluene	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
Total Xylenes	ND		ug/kg	5.4	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	75.1		%	56 - 124	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
4-Bromofluorobenzene (S)	68.4		%	51 - 128	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
Dibromofluoromethane (S)	82.5		%	62 - 123	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
Toluene-d8 (S)	82.2		%	59 - 131	SW846 8260C	11/11/15 11:20	TMP	11/17/15 17:11	TMP	A
WET CHEMISTRY										
Moisture	8.1		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	91.9		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	6.1		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:30	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705012** Date Collected: 11/11/2015 11:32 Matrix: Solid
 Sample ID: **058-1110-TB35B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	79.8		ug/kg	2.2	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
1,2-Dibromoethane	ND		ug/kg	2.2	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
1,2-Dichloroethane	ND		ug/kg	2.2	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
Ethylbenzene	203		ug/kg	2.2	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
Isopropylbenzene	19.8		ug/kg	2.2	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	2.2	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
Naphthalene	42.7		ug/kg	2.2	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
Toluene	897		ug/kg	50.8	SW846 8260C	11/11/15 11:32	CJG	11/21/15 02:38	CJG	
Total Xylenes	1090		ug/kg	152	SW846 8260C	11/11/15 11:32	CJG	11/21/15 02:38	CJG	
1,2,4-Trimethylbenzene	375		ug/kg	50.8	SW846 8260C	11/11/15 11:32	CJG	11/21/15 02:38	CJG	
1,3,5-Trimethylbenzene	85.1		ug/kg	2.2	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.9		%	71 - 146	SW846 8260C	11/11/15 11:32	CJG	11/21/15 02:38	CJG	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.7		%	56 - 124	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
4-Bromofluorobenzene (S)	74.7		%	51 - 128	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	120		%	46 - 138	SW846 8260C	11/11/15 11:32	CJG	11/21/15 02:38	CJG	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	82.6		%	62 - 123	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	75.3		%	42 - 143	SW846 8260C	11/11/15 11:32	CJG	11/21/15 02:38	CJG	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	78.3		%	59 - 131	SW846 8260C	11/11/15 11:32	TMP	11/17/15 19:08	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	96.3		%	54 - 141	SW846 8260C	11/11/15 11:32	CJG	11/21/15 02:38	CJG	
WET CHEMISTRY										
Moisture	25.9		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	74.1		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	7.9		mg/kg	1.3	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:34	MO	D1

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

Lab ID: 2107705012 Date Collected: 11/11/2015 11:32 Matrix: Solid
Sample ID: 058-1110-TB35B Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
------------	---------	------	-------	-----	--------	----------	----	----------	----	-------

Debra J Musser
Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

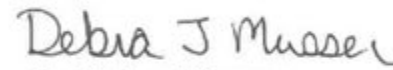
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705013** Date Collected: 11/11/2015 11:08 Matrix: Solid
 Sample ID: **058-1110-TB36A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	43.5	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
1,2-Dibromoethane	ND		ug/kg	43.5	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
1,2-Dichloroethane	ND		ug/kg	43.5	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
Ethylbenzene	97.5		ug/kg	43.5	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
Isopropylbenzene	704		ug/kg	43.5	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
Methyl t-Butyl Ether	ND		ug/kg	43.5	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
Naphthalene	231		ug/kg	87.0	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
Toluene	ND		ug/kg	43.5	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
Total Xylenes	ND		ug/kg	131	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
1,2,4-Trimethylbenzene	1250		ug/kg	43.5	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
1,3,5-Trimethylbenzene	5970		ug/kg	43.5	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	112		%	71 - 146	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
4-Bromofluorobenzene (S)	128		%	46 - 138	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
Dibromofluoromethane (S)	93.9		%	42 - 143	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
Toluene-d8 (S)	105		%	54 - 141	SW846 8260C	11/11/15 11:08	JAH	11/20/15 17:20	DD	C
WET CHEMISTRY										
Moisture	12.5		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	87.5		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	10.6		mg/kg	1.0	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:38	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

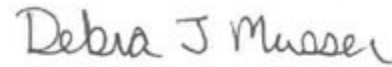
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705014** Date Collected: 11/11/2015 11:11 Matrix: Solid
 Sample ID: **058-1110-TB36B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
VOLATILE ORGANICS										
Benzene	121		ug/kg	42.8	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
1,2-Dibromoethane	ND		ug/kg	42.8	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
1,2-Dichloroethane	ND		ug/kg	42.8	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
Ethylbenzene	8280		ug/kg	42.8	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
Isopropylbenzene	1980		ug/kg	42.8	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
Methyl t-Butyl Ether	ND		ug/kg	42.8	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
Naphthalene	3640		ug/kg	85.6	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
Toluene	2090		ug/kg	42.8	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
Total Xylenes	29300		ug/kg	2570	SW846 8260C	11/11/15 11:11	DD	11/23/15 16:09	DD	C
1,2,4-Trimethylbenzene	34700		ug/kg	856	SW846 8260C	11/11/15 11:11	DD	11/23/15 16:09	DD	C
1,3,5-Trimethylbenzene	9860		ug/kg	856	SW846 8260C	11/11/15 11:11	DD	11/23/15 16:09	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Contr</i>
1,2-Dichloroethane-d4 (S)	70.4	1	%	71 - 146	SW846 8260C	11/11/15 11:11	DD	11/23/15 16:09	DD	C
1,2-Dichloroethane-d4 (S)	121		%	71 - 146	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
4-Bromofluorobenzene (S)	124		%	46 - 138	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
4-Bromofluorobenzene (S)	123		%	46 - 138	SW846 8260C	11/11/15 11:11	DD	11/23/15 16:09	DD	C
Dibromofluoromethane (S)	68.3		%	42 - 143	SW846 8260C	11/11/15 11:11	DD	11/23/15 16:09	DD	C
Dibromofluoromethane (S)	88.1		%	42 - 143	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
Toluene-d8 (S)	110		%	54 - 141	SW846 8260C	11/11/15 11:11	JAH	11/20/15 17:43	DD	C
Toluene-d8 (S)	82.3		%	54 - 141	SW846 8260C	11/11/15 11:11	DD	11/23/15 16:09	DD	C
WET CHEMISTRY										
Moisture	12.3		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	87.7		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	4.6		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:42	MO	D1



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

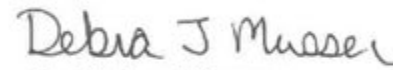
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705015** Date Collected: 11/11/2015 10:18 Matrix: Solid
 Sample ID: **058-1110-TB37A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
1,2-Dibromoethane	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
1,2-Dichloroethane	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
Ethylbenzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
Isopropylbenzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
Naphthalene	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
Toluene	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
Total Xylenes	5.5		ug/kg	5.1	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.1		%	56 - 124	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
4-Bromofluorobenzene (S)	67.4		%	51 - 128	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
Dibromofluoromethane (S)	83.8		%	62 - 123	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
Toluene-d8 (S)	79.6		%	59 - 131	SW846 8260C	11/11/15 10:18	TMP	11/17/15 17:35	TMP	A
WET CHEMISTRY										
Moisture	8.8		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	91.2		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	7.3		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 16:46	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705016** Date Collected: 11/11/2015 10:32 Matrix: Solid
 Sample ID: **058-1110-TB37B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	332		ug/kg	46.6	SW846 8260C	11/11/15 10:32	CJG	11/21/15 02:15	CJG	
1,2-Dibromoethane	ND		ug/kg	1.9	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
1,2-Dichloroethane	ND		ug/kg	1.9	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
Ethylbenzene	86.1		ug/kg	1.9	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
Isopropylbenzene	6.2		ug/kg	1.9	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
Methyl t-Butyl Ether	30.5		ug/kg	1.9	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
Naphthalene	9.7		ug/kg	1.9	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
Toluene	1230		ug/kg	46.6	SW846 8260C	11/11/15 10:32	CJG	11/21/15 02:15	CJG	
Total Xylenes	1260		ug/kg	140	SW846 8260C	11/11/15 10:32	CJG	11/21/15 02:15	CJG	
1,2,4-Trimethylbenzene	66.5		ug/kg	1.9	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
1,3,5-Trimethylbenzene	20.6		ug/kg	1.9	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.7		%	56 - 124	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	83.5		%	71 - 146	SW846 8260C	11/11/15 10:32	CJG	11/21/15 02:15	CJG	
4-Bromofluorobenzene (S)	120		%	46 - 138	SW846 8260C	11/11/15 10:32	CJG	11/21/15 02:15	CJG	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	70		%	51 - 128	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
Dibromofluoromethane (S)	80.5		%	62 - 123	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	76.6		%	42 - 143	SW846 8260C	11/11/15 10:32	CJG	11/21/15 02:15	CJG	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	75.4		%	59 - 131	SW846 8260C	11/11/15 10:32	TMP	11/17/15 17:58	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	97.5		%	54 - 141	SW846 8260C	11/11/15 10:32	CJG	11/21/15 02:15	CJG	
WET CHEMISTRY										
Moisture	14.4		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	85.6		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	7.4		mg/kg	0.97	SW846 6020A	11/16/15 10:50	JPS	11/16/15 17:01	MO	D1

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

Lab ID: 2107705016 Date Collected: 11/11/2015 10:32 Matrix: Solid
Sample ID: 058-1110-TB37B Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
------------	---------	------	-------	-----	--------	----------	----	----------	----	-------

Debra J Musser
Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705017** Date Collected: 11/11/2015 09:25 Matrix: Solid
 Sample ID: **058-1110-TB38A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	625		ug/kg	46.3	SW846 8260C	11/11/15 09:25	CJG	11/21/15 01:52	CJG	
1,2-Dibromoethane	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
1,2-Dichloroethane	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
Ethylbenzene	89.5		ug/kg	1.7	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
Isopropylbenzene	4.4		ug/kg	1.7	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
Methyl t-Butyl Ether	2.7		ug/kg	1.7	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
Naphthalene	15.3		ug/kg	1.7	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
Toluene	2390		ug/kg	46.3	SW846 8260C	11/11/15 09:25	CJG	11/21/15 01:52	CJG	
Total Xylenes	1340		ug/kg	139	SW846 8260C	11/11/15 09:25	CJG	11/21/15 01:52	CJG	
1,2,4-Trimethylbenzene	49.6		ug/kg	1.7	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
1,3,5-Trimethylbenzene	19.5		ug/kg	1.7	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.5		%	71 - 146	SW846 8260C	11/11/15 09:25	CJG	11/21/15 01:52	CJG	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.6		%	56 - 124	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	112		%	46 - 138	SW846 8260C	11/11/15 09:25	CJG	11/21/15 01:52	CJG	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	74.1		%	51 - 128	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	71.3		%	42 - 143	SW846 8260C	11/11/15 09:25	CJG	11/21/15 01:52	CJG	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	82		%	62 - 123	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
Toluene-d8 (S)	74.2		%	59 - 131	SW846 8260C	11/11/15 09:25	TMP	11/17/15 19:31	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	91.6		%	54 - 141	SW846 8260C	11/11/15 09:25	CJG	11/21/15 01:52	CJG	
WET CHEMISTRY										
Moisture	10		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	90.0		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	13.9		mg/kg	1.1	SW846 6020A	11/16/15 10:50	JPS	11/16/15 17:04	MO	D1

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

Lab ID: **2107705017** Date Collected: 11/11/2015 09:25 Matrix: Solid
 Sample ID: **058-1110-TB38A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
------------	---------	------	-------	-----	--------	----------	----	----------	----	-------

Debra J Musser
 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

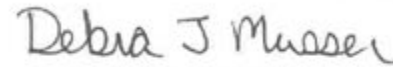
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705018** Date Collected: 11/11/2015 09:31 Matrix: Solid
 Sample ID: **058-1110-TB38B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
VOLATILE ORGANICS										
Benzene	493		ug/kg	38.9	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
1,2-Dibromoethane	ND		ug/kg	38.9	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
1,2-Dichloroethane	ND		ug/kg	38.9	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
Ethylbenzene	6610		ug/kg	38.9	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
Isopropylbenzene	1590		ug/kg	38.9	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
Methyl t-Butyl Ether	ND		ug/kg	38.9	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
Naphthalene	4070		ug/kg	77.8	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
Toluene	4050		ug/kg	38.9	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
Total Xylenes	42900		ug/kg	2330	SW846 8260C	11/11/15 09:31	DD	11/23/15 16:32	DD	C
1,2,4-Trimethylbenzene	27900		ug/kg	778	SW846 8260C	11/11/15 09:31	DD	11/23/15 16:32	DD	C
1,3,5-Trimethylbenzene	7690		ug/kg	778	SW846 8260C	11/11/15 09:31	DD	11/23/15 16:32	DD	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Contr</i>
1,2-Dichloroethane-d4 (S)	111		%	71 - 146	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
1,2-Dichloroethane-d4 (S)	70.2	1	%	71 - 146	SW846 8260C	11/11/15 09:31	DD	11/23/15 16:32	DD	C
4-Bromofluorobenzene (S)	119		%	46 - 138	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
4-Bromofluorobenzene (S)	123		%	46 - 138	SW846 8260C	11/11/15 09:31	DD	11/23/15 16:32	DD	C
Dibromofluoromethane (S)	88		%	42 - 143	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
Dibromofluoromethane (S)	68.1		%	42 - 143	SW846 8260C	11/11/15 09:31	DD	11/23/15 16:32	DD	C
Toluene-d8 (S)	81.7		%	54 - 141	SW846 8260C	11/11/15 09:31	DD	11/23/15 16:32	DD	C
Toluene-d8 (S)	98.5		%	54 - 141	SW846 8260C	11/11/15 09:31	JAH	11/20/15 18:06	DD	C
WET CHEMISTRY										
Moisture	9.6		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	90.4		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	4.6		mg/kg	1.0	SW846 6020A	11/16/15 10:50	JPS	11/16/15 17:08	MO	D1



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

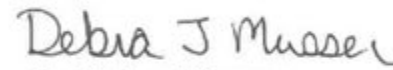
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705019** Date Collected: 11/11/2015 09:43 Matrix: Solid
 Sample ID: **058-1110-TB39A** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
1,2-Dibromoethane	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
1,2-Dichloroethane	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
Ethylbenzene	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
Isopropylbenzene	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
Naphthalene	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
Toluene	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
Total Xylenes	ND		ug/kg	5.7	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.7		%	56 - 124	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
4-Bromofluorobenzene (S)	69.8		%	51 - 128	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
Dibromofluoromethane (S)	83.5		%	62 - 123	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
Toluene-d8 (S)	77.3		%	59 - 131	SW846 8260C	11/11/15 09:43	TMP	11/17/15 18:21	TMP	A
WET CHEMISTRY										
Moisture	8.5		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	91.5		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	7.4		mg/kg	0.99	SW846 6020A	11/16/15 10:50	JPS	11/16/15 17:12	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

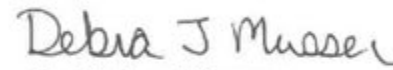
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2107705 27058 Lewis Brothers Garage

 Lab ID: **2107705020** Date Collected: 11/11/2015 09:53 Matrix: Solid
 Sample ID: **058-1110-TB39B** Date Received: 11/12/2015 11:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	9.1		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
1,2-Dibromoethane	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
1,2-Dichloroethane	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
Ethylbenzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
Isopropylbenzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
Naphthalene	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
Toluene	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
Total Xylenes	ND		ug/kg	5.2	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.3		%	56 - 124	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
4-Bromofluorobenzene (S)	76.5		%	51 - 128	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
Dibromofluoromethane (S)	83.3		%	62 - 123	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
Toluene-d8 (S)	79.9		%	59 - 131	SW846 8260C	11/11/15 09:53	TMP	11/17/15 18:44	TMP	A
WET CHEMISTRY										
Moisture	14.7		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
Total Solids	85.3		%	0.1	S2540G-11			11/13/15 09:40	EMW	D
METALS										
Lead, Total	8.4		mg/kg	0.98	SW846 6020A	11/16/15 10:50	JPS	11/16/15 17:16	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2107705002	1	058-1110-TB26B	SW846 8260C	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 148 and the control limits were 46 to 138. This result was reported at a dilution of 50.				
2107705005	1	058-1110-TB30A	SW846 8260C	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 148 and the control limits were 46 to 138. This result was reported at a dilution of 50.				
2107705005	2	058-1110-TB30A	SW846 8260C	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 70.1 and the control limits were 71 to 146. This result was reported at a dilution of 1000.				
2107705006	1	058-1110-TB30B	SW846 8260C	Toluene-d8
The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 145 and the control limits were 54 to 141. This result was reported at a dilution of 50.				
2107705006	2	058-1110-TB30B	SW846 8260C	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 162 and the control limits were 46 to 138. This result was reported at a dilution of 50.				
2107705009	1	058-1110-TB32A	SW846 8260C	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 164 and the control limits were 56 to 124. This result was reported at a dilution of 1.				
2107705009	2	058-1110-TB32A	SW846 8260C	Toluene-d8
The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 148 and the control limits were 54 to 141. This result was reported at a dilution of 50.				
2107705009	3	058-1110-TB32A	SW846 8260C	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 172 and the control limits were 46 to 138. This result was reported at a dilution of 50.				
2107705014	1	058-1110-TB36B	SW846 8260C	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 70.4 and the control limits were 71 to 146. This result was reported at a dilution of 1000.				
2107705018	1	058-1110-TB38B	SW846 8260C	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 70.2 and the control limits were 71 to 146. This result was reported at a dilution of 1000.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmetal

Co. Name: **PENNSYLVANIA TECTONICS INC**
Contact: **MARTIN GILGALLON** Phone: **570-487-1959**
Address: **723 MAIN STREET**
ARCHBALD PA 18403

Bill to (if different than Report to):

PO#:

Project Name#: **27058.02/LEWIS BROS GARAGE ALS Quote #:**

TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.

Date Required:
Approved By:

Email? Y N
Fax? Y N

Sample Description/Location (as it will appear on the lab report)

COC Comments

Sample Date

Military Time

G or C

Matrix

Enter Number of Containers Per Analysis

ANALYSES/METHOD REQUESTED

Notes:

No. of Coolers:

Therm. ID:

Cooler Temp:

Approved by:

Reviewed by:

Tracking #:

Container ID:

ALS FIELD SERVICES

Container in good condition?

COC Labels complete/accurate?

Received on ice?

(if present) Seals Intact?

Custody seals Present?

Correct container?

Correct sample volume?

Correct preservation?

Headspace/Volatility?

Circle appropriate Y or N.

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Container Type: **CG CG CG**

Container Size: **4ml 4ml 4oz**

Preservative: **None Amber, NAOL**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Matrix: **UNLEADED GASOLINE**

Page 1 of 3
Courier: **Hand Driver**
Tracking #:



2107705*

ALS

Therm. ID: **TH-294**

Cooler Temp: **32**

Approved by:

Reviewed by:

Tracking #:

Container ID:

ALS FIELD SERVICES

Container in good condition?

COC Labels complete/accurate?

Received on ice?

(if present) Seals Intact?

Custody seals Present?

Correct container?

Correct sample volume?

Correct preservation?

Headspace/Volatility?

Circle appropriate Y or N.

SO/MA

Form 7-0

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes

yes





34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
SAMPLER INSTRUCTIONS ON THE BACK.

Co. Name: PENNSYLVANIA TECTONICS INC Phone: 570-487-1959
Contact (Report to): MARTIN GILGALLON
Address: 723 MAIN STREET
ARCHBALD PA 18403

Bill to (different than Report to):

PO#:

Project Name#: 27058.02/LEWIS BEES GARAGEALS Quote #:

TAT: Normal-Standard TAT is 10-12 business days. Date Required:
 Rush-Subject to ALS approval and surcharges. Approved By:

Email? Y N Fax? Y N
Y No.: mgilgallon@patelectonics.com

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time
1 OSB-1110-T838A		11-15	0925
2 OSB-1110-T838B		11-15	0931
3 OSB-1110-T839A		11-15	0943
4 OSB-1110-T839B		11-15	0953
5			
6			
7			
8			

SAMPLED BY (Please Print):

Kevin Cucuba

Project Comments:

Relinquished By/ Company Name

Kevin Cucuba / Pennsylvania Tectonics

Date

11-12-15 0820

Received By/ Company Name

Kevin Cucuba

Date

11-12-15 1115

Time

11/12 1115

Time

11/12 1115

Time

11/12 1115

Time

11/12 1115

Carrier: Hand Delivered

Tracking #:

2109905

Receipt Information (Numbered by Sample Event) Approved by: [Signature] Date: 11/15/15

Cooler Temp: 32 Therm. ID: TA-394

No. of Coolers: _____

Notes: _____

Correct containers?	Y	N
(If present) Seals intact?	Y	N
Received on ice?	Y	N
COC labels complete/accurate?	Y	N
Container in good condition?	Y	N

Circle appropriate Y or N.

ANALYSES/METHOD REQUESTED

Container Type	Sub	Matrix	Enter Number of Containers Per Analysis
CG	CG	CG	1
40ml	40ml	40Z	2
40ml	40ml	40Z	2
40ml	40ml	40Z	2
40ml	40ml	40Z	2

UNLEADED GASOLINE
UNLEADED GASOLINE
UNLEADED GASOLINE
UNLEADED GASOLINE
UNLEADED GASOLINE

Standard	SOHA Form 7-0	SOHA State Samples Collected In?
<input checked="" type="checkbox"/> Standard	yes <input type="checkbox"/>	MD <input type="checkbox"/>
<input type="checkbox"/> CLP-800	yes <input type="checkbox"/>	NJ <input type="checkbox"/>
<input type="checkbox"/> NJ-Reduced	yes <input type="checkbox"/>	NY <input type="checkbox"/>
<input type="checkbox"/> NJ-Full	yes <input type="checkbox"/>	PA <input checked="" type="checkbox"/>
Other: _____		

EDS Requested?	DOB Criteria Required?
<input type="checkbox"/>	<input type="checkbox"/>

Sample Description/Location	COC Comments	Sample Date	Military Time
1 OSB-1110-T838A		11-15	0925
2 OSB-1110-T838B		11-15	0931
3 OSB-1110-T839A		11-15	0943
4 OSB-1110-T839B		11-15	0953
5			
6			
7			
8			

March 16, 2016

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Revised Report - 3/16/2016 6:04:11 PM - See workorder comment section for explanation

Project Name:	27058 Lewis Brothers Garage	Workorder:	2109098
Purchase Order:		Workorder ID:	27058 Lewis Brothers Garage

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Thursday, November 19, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

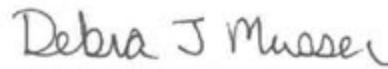
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



SAMPLE SUMMARY

Workorder: 2109098 27058 Lewis Brothers Garage

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2109098001	058-1110-TB27A	Solid	11/18/2015 08:55	11/19/2015 10:38	Collected by Client
2109098002	058-1110-TB27B	Solid	11/18/2015 09:06	11/19/2015 10:38	Collected by Client
2109098003	058-1110-TB28A	Solid	11/18/2015 08:32	11/19/2015 10:38	Collected by Client
2109098004	058-1110-TB28B	Solid	11/18/2015 08:39	11/19/2015 10:38	Collected by Client
2109098005	058-1110-TB33A	Solid	11/18/2015 09:44	11/19/2015 10:38	Collected by Client
2109098006	058-1110-TB33B	Solid	11/18/2015 10:07	11/19/2015 10:38	Collected by Client
2109098007	058-1110-TB34A	Solid	11/18/2015 10:32	11/19/2015 10:38	Collected by Client
2109098008	058-1110-TB34B	Solid	11/18/2015 10:50	11/19/2015 10:38	Collected by Client
2109098009	058-1110-TB40A	Solid	11/18/2015 14:32	11/19/2015 10:38	Collected by Client
2109098010	058-1110-TB40B	Solid	11/18/2015 14:41	11/19/2015 10:38	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2109098 27058 Lewis Brothers Garage

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

PROJECT SUMMARY

Workorder: 2109098 27058 Lewis Brothers Garage

Workorder Comments

This report was revised to include MTBE on TB-33A, TB-33B, TB-34A, and TB-34B. DJM

ALS Environmental Laboratory Locations Across North America

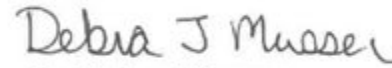
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098001** Date Collected: 11/18/2015 08:55 Matrix: Solid
 Sample ID: **058-1110-TB27A** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	664		ug/kg	466	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
1,2-Dibromoethane	ND		ug/kg	466	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
1,2-Dichloroethane	ND		ug/kg	466	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
Ethylbenzene	10800		ug/kg	466	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
Isopropylbenzene	2940		ug/kg	466	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
Methyl t-Butyl Ether	ND		ug/kg	466	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
Naphthalene	4600		ug/kg	932	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
Toluene	9240		ug/kg	466	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
Total Xylenes	70500		ug/kg	1400	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
1,2,4-Trimethylbenzene	49400		ug/kg	466	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
1,3,5-Trimethylbenzene	12900		ug/kg	466	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.3		%	71 - 146	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
4-Bromofluorobenzene (S)	135		%	46 - 138	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
Dibromofluoromethane (S)	76		%	42 - 143	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
Toluene-d8 (S)	90.2		%	54 - 141	SW846 8260C	11/18/15 08:55	JAH	11/23/15 18:02	DD	A
WET CHEMISTRY										
Moisture	10		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	90.0		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	9.7		mg/kg	0.96	SW846 6020A	11/24/15 15:40	ECG	11/25/15 10:42	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098002** Date Collected: 11/18/2015 09:06 Matrix: Solid
 Sample ID: **058-1110-TB27B** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	14.9		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
1,2-Dibromoethane	ND		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
1,2-Dichloroethane	ND		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
Ethylbenzene	108		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
Isopropylbenzene	8.4		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
Methyl t-Butyl Ether	2.2		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
Naphthalene	55.1		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
Toluene	71.5		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
Total Xylenes	908		ug/kg	132	SW846 8260C	11/18/15 09:06	DD	12/1/15 17:08	DD	A
1,2,4-Trimethylbenzene	159		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
1,3,5-Trimethylbenzene	41.1		ug/kg	1.6	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	112		%	71 - 146	SW846 8260C	11/18/15 09:06	DD	12/1/15 17:08	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.8		%	56 - 124	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	120		%	46 - 138	SW846 8260C	11/18/15 09:06	DD	12/1/15 17:08	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	93.7		%	51 - 128	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
Dibromofluoromethane (S)	91.4		%	62 - 123	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	105		%	42 - 143	SW846 8260C	11/18/15 09:06	DD	12/1/15 17:08	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	93.9		%	59 - 131	SW846 8260C	11/18/15 09:06	TMP	11/21/15 14:02	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	127		%	54 - 141	SW846 8260C	11/18/15 09:06	DD	12/1/15 17:08	DD	A
WET CHEMISTRY										
Moisture	7.5		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	92.5		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	5.2		mg/kg	0.98	SW846 6020A	11/24/15 15:40	ECG	11/25/15 11:00	MO	D1

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

Lab ID: 2109098002 Date Collected: 11/18/2015 09:06 Matrix: Solid
Sample ID: 058-1110-TB27B Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
------------	---------	------	-------	-----	--------	----------	----	----------	----	-------

Debra J Musser
Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098003** Date Collected: 11/18/2015 08:32 Matrix: Solid
 Sample ID: **058-1110-TB28A** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	7.7		ug/kg	1.8	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
1,2-Dibromoethane	ND		ug/kg	1.8	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
1,2-Dichloroethane	ND		ug/kg	1.8	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
Ethylbenzene	1860		ug/kg	45.3	SW846 8260C	11/18/15 08:32	DD	12/1/15 17:30	DD	A
Isopropylbenzene	47.0		ug/kg	1.8	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
Methyl t-Butyl Ether	2.1		ug/kg	1.8	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
Naphthalene	173		ug/kg	1.8	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
Toluene	21.2		ug/kg	1.8	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
Total Xylenes	6450		ug/kg	136	SW846 8260C	11/18/15 08:32	DD	12/1/15 17:30	DD	A
1,2,4-Trimethylbenzene	9050		ug/kg	45.3	SW846 8260C	11/18/15 08:32	DD	12/1/15 17:30	DD	A
1,3,5-Trimethylbenzene	3050		ug/kg	45.3	SW846 8260C	11/18/15 08:32	DD	12/1/15 17:30	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	131		%	71 - 146	SW846 8260C	11/18/15 08:32	DD	12/1/15 17:30	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	117		%	56 - 124	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
4-Bromofluorobenzene (S)	91.1		%	51 - 128	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	134		%	46 - 138	SW846 8260C	11/18/15 08:32	DD	12/1/15 17:30	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	85.4		%	62 - 123	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	117		%	42 - 143	SW846 8260C	11/18/15 08:32	DD	12/1/15 17:30	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	87.7		%	59 - 131	SW846 8260C	11/18/15 08:32	TMP	11/21/15 15:58	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	141		%	54 - 141	SW846 8260C	11/18/15 08:32	DD	12/1/15 17:30	DD	A
WET CHEMISTRY										
Moisture	9.3		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	90.7		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	8.1		mg/kg	1.1	SW846 6020A	11/24/15 15:40	ECG	11/25/15 11:03	MO	D1

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

Lab ID: 2109098003 Date Collected: 11/18/2015 08:32 Matrix: Solid
Sample ID: 058-1110-TB28A Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
------------	---------	------	-------	-----	--------	----------	----	----------	----	------

Debra J Musser
Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

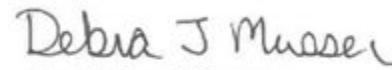
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098004** Date Collected: 11/18/2015 08:39 Matrix: Solid
 Sample ID: **058-1110-TB28B** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
1,2-Dibromoethane	ND		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
1,2-Dichloroethane	ND		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
Ethylbenzene	3.0		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
Isopropylbenzene	8.9		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
Methyl t-Butyl Ether	ND		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
Naphthalene	8.8		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
Toluene	ND		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
Total Xylenes	9.1		ug/kg	5.0	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
1,2,4-Trimethylbenzene	37.4		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
1,3,5-Trimethylbenzene	7.1		ug/kg	1.7	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.3		%	56 - 124	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
4-Bromofluorobenzene (S)	91.1		%	51 - 128	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
Dibromofluoromethane (S)	91.3		%	62 - 123	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
Toluene-d8 (S)	75.1		%	59 - 131	SW846 8260C	11/18/15 08:39	TMP	11/21/15 14:25	TMP	B
WET CHEMISTRY										
Moisture	7.0		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	93.0		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	7.8		mg/kg	1.1	SW846 6020A	11/24/15 15:40	ECG	11/25/15 11:07	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

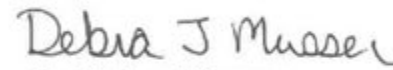
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098005** Date Collected: 11/18/2015 09:44 Matrix: Solid
 Sample ID: **058-1110-TB33A** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	668		ug/kg	241	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
1,2-Dibromoethane	ND		ug/kg	241	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
1,2-Dichloroethane	ND		ug/kg	241	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
Ethylbenzene	5730		ug/kg	241	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
Isopropylbenzene	959		ug/kg	241	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
Methyl t-Butyl Ether	ND		ug/kg	241	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
Naphthalene	2570		ug/kg	482	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
Toluene	11600		ug/kg	241	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
Total Xylenes	33900		ug/kg	723	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
1,2,4-Trimethylbenzene	18300		ug/kg	241	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
1,3,5-Trimethylbenzene	5940		ug/kg	241	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	71 - 146	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
4-Bromofluorobenzene (S)	112		%	46 - 138	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
Dibromofluoromethane (S)	93.7		%	42 - 143	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
Toluene-d8 (S)	116		%	54 - 141	SW846 8260C	11/18/15 09:44	CJG	11/26/15 07:16	CJG	A
WET CHEMISTRY										
Moisture	8.2		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	91.8		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	8.1		mg/kg	0.97	SW846 6020A	11/24/15 15:40	ECG	11/25/15 11:10	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

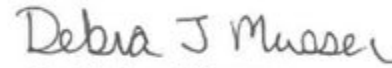
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098006** Date Collected: 11/18/2015 10:07 Matrix: Solid
 Sample ID: **058-1110-TB33B** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	3600		ug/kg	216	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
1,2-Dibromoethane	ND		ug/kg	216	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
1,2-Dichloroethane	ND		ug/kg	216	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
Ethylbenzene	3300		ug/kg	216	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
Isopropylbenzene	408		ug/kg	216	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
Methyl t-Butyl Ether	316		ug/kg	216	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
Naphthalene	753		ug/kg	431	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
Toluene	16800		ug/kg	216	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
Total Xylenes	17500		ug/kg	647	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
1,2,4-Trimethylbenzene	5890		ug/kg	216	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
1,3,5-Trimethylbenzene	2120		ug/kg	216	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	71 - 146	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
4-Bromofluorobenzene (S)	104		%	46 - 138	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
Dibromofluoromethane (S)	92		%	42 - 143	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
Toluene-d8 (S)	113		%	54 - 141	SW846 8260C	11/18/15 10:07	CJG	11/26/15 07:39	CJG	A
WET CHEMISTRY										
Moisture	11.2		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	88.8		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	4.9		mg/kg	1.1	SW846 6020A	11/24/15 15:40	ECG	11/25/15 11:14	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

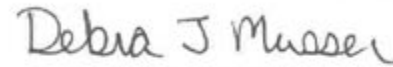
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098007** Date Collected: 11/18/2015 10:32 Matrix: Solid
 Sample ID: **058-1110-TB34A** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
VOLATILE ORGANICS										
Benzene	478		ug/kg	50.7	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
1,2-Dibromoethane	ND		ug/kg	50.7	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
1,2-Dichloroethane	ND		ug/kg	50.7	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
Ethylbenzene	5350		ug/kg	50.7	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
Isopropylbenzene	971		ug/kg	50.7	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
Methyl t-Butyl Ether	ND		ug/kg	50.7	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
Naphthalene	1790		ug/kg	101	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
Toluene	453		ug/kg	50.7	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
Total Xylenes	17100		ug/kg	152	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
1,2,4-Trimethylbenzene	14000		ug/kg	506	SW846 8260C	11/18/15 10:32	JAH	11/23/15 19:11	DD	A
1,3,5-Trimethylbenzene	5360		ug/kg	50.7	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Contr</i>
1,2-Dichloroethane-d4 (S)	80.2		%	71 - 146	SW846 8260C	11/18/15 10:32	JAH	11/23/15 19:11	DD	A
1,2-Dichloroethane-d4 (S)	104		%	71 - 146	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
4-Bromofluorobenzene (S)	136		%	46 - 138	SW846 8260C	11/18/15 10:32	JAH	11/23/15 19:11	DD	A
4-Bromofluorobenzene (S)	110		%	46 - 138	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
Dibromofluoromethane (S)	79.3		%	42 - 143	SW846 8260C	11/18/15 10:32	JAH	11/23/15 19:11	DD	A
Dibromofluoromethane (S)	92.1		%	42 - 143	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
Toluene-d8 (S)	119		%	54 - 141	SW846 8260C	11/18/15 10:32	CJG	11/26/15 08:02	CJG	A
Toluene-d8 (S)	92		%	54 - 141	SW846 8260C	11/18/15 10:32	JAH	11/23/15 19:11	DD	A
WET CHEMISTRY										
Moisture	9.0		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	91.0		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	7.2		mg/kg	1.1	SW846 6020A	11/24/15 15:40	ECG	11/25/15 11:28	MO	D1



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098008** Date Collected: 11/18/2015 10:50 Matrix: Solid
 Sample ID: **058-1110-TB34B** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2550		ug/kg	40.6	SW846 8260C	11/18/15 10:50	DD	12/1/15 17:53	DD	A
1,2-Dibromoethane	ND		ug/kg	1.6	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
1,2-Dichloroethane	2.8		ug/kg	1.6	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
Ethylbenzene	90.4		ug/kg	1.6	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
Isopropylbenzene	5.6		ug/kg	1.6	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
Methyl t-Butyl Ether	755		ug/kg	40.6	SW846 8260C	11/18/15 10:50	DD	12/1/15 17:53	DD	A
Naphthalene	7.7		ug/kg	1.6	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
Toluene	2900		ug/kg	40.6	SW846 8260C	11/18/15 10:50	DD	12/1/15 17:53	DD	A
Total Xylenes	1640		ug/kg	122	SW846 8260C	11/18/15 10:50	DD	12/1/15 17:53	DD	A
1,2,4-Trimethylbenzene	48.9		ug/kg	1.6	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
1,3,5-Trimethylbenzene	14.7		ug/kg	1.6	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	119		%	71 - 146	SW846 8260C	11/18/15 10:50	DD	12/1/15 17:53	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86.6		%	56 - 124	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
4-Bromofluorobenzene (S)	97.9		%	51 - 128	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
4-Bromofluorobenzene (S)	130		%	46 - 138	SW846 8260C	11/18/15 10:50	DD	12/1/15 17:53	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	87.5		%	62 - 123	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Dibromofluoromethane (S)	114		%	42 - 143	SW846 8260C	11/18/15 10:50	DD	12/1/15 17:53	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	94		%	59 - 131	SW846 8260C	11/18/15 10:50	TMP	11/21/15 14:48	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Toluene-d8 (S)	137		%	54 - 141	SW846 8260C	11/18/15 10:50	DD	12/1/15 17:53	DD	A
WET CHEMISTRY										
Moisture	10.6		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	89.4		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	5.9		mg/kg	1.1	SW846 6020A	11/24/15 15:40	ECG	11/25/15 11:32	MO	D1

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

Lab ID: **2109098008** Date Collected: 11/18/2015 10:50 Matrix: Solid
 Sample ID: **058-1110-TB34B** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Contr
------------	---------	------	-------	-----	--------	----------	----	----------	----	-------

Debra J Musser
 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

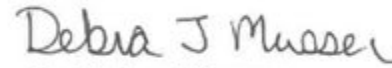
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098009** Date Collected: 11/18/2015 14:32 Matrix: Solid
 Sample ID: **058-1110-TB40A** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
1,2-Dibromoethane	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
1,2-Dichloroethane	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
Ethylbenzene	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
Isopropylbenzene	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
Methyl t-Butyl Ether	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
Naphthalene	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
Toluene	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
Total Xylenes	ND		ug/kg	6.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.8		%	56 - 124	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
4-Bromofluorobenzene (S)	91.8		%	51 - 128	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
Dibromofluoromethane (S)	95.9		%	62 - 123	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
Toluene-d8 (S)	92.2		%	59 - 131	SW846 8260C	11/18/15 14:32	TMP	11/23/15 14:36	TMP	C
WET CHEMISTRY										
Moisture	10.2		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	89.8		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	9.8		mg/kg	1.1	SW846 6020A	11/24/15 15:40	ECG	11/25/15 11:46	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

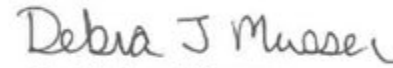
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2109098 27058 Lewis Brothers Garage

 Lab ID: **2109098010** Date Collected: 11/18/2015 14:41 Matrix: Solid
 Sample ID: **058-1110-TB40B** Date Received: 11/19/2015 10:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
1,2-Dibromoethane	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
1,2-Dichloroethane	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
Ethylbenzene	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
Isopropylbenzene	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
Methyl t-Butyl Ether	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
Naphthalene	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
Toluene	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
Total Xylenes	ND		ug/kg	5.6	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.1		%	56 - 124	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
4-Bromofluorobenzene (S)	92.5		%	51 - 128	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
Dibromofluoromethane (S)	91.6		%	62 - 123	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
Toluene-d8 (S)	92.9		%	59 - 131	SW846 8260C	11/18/15 14:41	TMP	11/21/15 15:35	TMP	B
WET CHEMISTRY										
Moisture	8.0		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
Total Solids	92.0		%	0.1	S2540G-11			11/20/15 09:12	EMW	D
METALS										
Lead, Total	7.0		mg/kg	1.1	SW846 6020A	11/24/15 15:40	ECG	11/25/15 11:50	MO	D1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

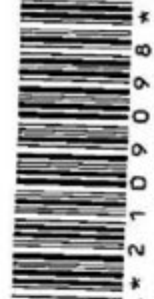


34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
SAMPLER, INSTRUCTIONS ON THE BACK

Page 1 of 2
Counter: Hard Drive
Tracking #:



Co. Name: PENNSYLVANIA TETRONICS, INC.
Contact (Report to): MARTIN GILLIGAN Phone:
Address: 723 MAIN STREET
ARLBAID PA 18403

Bill to (if different than Report to): PO#:

Project Name/ID: Craws Bros / 27058.02 ALS Quote #: _____
TAT: Normal-Standard TAT is 10-12 business days. Date Required: _____
 Rush-Subject to ALS approval and surcharges. Approved By: _____

Email? Y N MG.gilligan@PARTNERS.COM
Fax? Y N

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time
1 OSB-1110-TB27A		11.18.15	0855
2 OSB-1110-TB27B		11.18.15	0906
3 OSB-1110-TB28A		11.18.15	0832
4 OSB-1110-TB28B		11.18.15	0839
5 OSB-1110-TB33A		11.18.15	0944
6 OSB-1110-TB33B		11.18.15	1007
7 OSB-1110-TB34A		11.18.15	1032
8 OSB-1110-TB34B		11.18.15	1050

SAMPLED BY (Please Print): KEVIN CUCUBA

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<u>Kevin Cucuba / Pennsylvania Tetronics</u>	<u>11.19.15</u>	<u>0700</u>	<u>Kevin Cucuba / Pennsylvania Tetronics</u>	<u>11.18.15</u>	<u>1032</u>
<u>Kevin Cucuba / Pennsylvania Tetronics</u>	<u>11.19.15</u>	<u>1034</u>	<u>Kevin Cucuba / Pennsylvania Tetronics</u>	<u>11.19.15</u>	<u>1039</u>

Container Type: CG CG CG
Container Size: 40L 40L 40L
Preservative: None

ANALYSES/METHOD REQUESTED

UNKNOWN GASOLINE
UNKNOWN GASOLINE
UNKNOWN GASOLINE
UNKNOWN GASOLINE
UNKNOWN GASOLINE

Enter Number of Containers Per Analysis	Matrix	GC
1	G	50
1	G	50
1	G	50
1	G	50
1	G	50
1	G	50
1	G	50
1	G	50

Cooler Temp: 2°C
Therm. ID: TH-294
No. of Coolers: _____
Notes: _____

Correct containers?	Y	N
(if present) Seats Intact?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatiles?	Y	N
COC Labels complete/accurate?	Y	N
Container in good condition?	Y	N

ALS FIELD SERVICES
 Pick-up
 Labor
 Composites Sampling
 Rental Equipment
 Other

SDWA Forms 7-0
 CLP-like
 NJ-Reduced
 NJ-Full
 Other

State Samples Collected In?
 MD NJ NY PA

DDO Criteria Required? YES NO

*G-Grab; Co-Composite **Matrix: A=Air; D=Drinking Water; GW=Groundwater; O=Oil; L=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
 ***Container Type: AG=Amber Glass; CG=Clear Glass, PL=Plastic. Container Size: 250ml, 500ml, 1L, 500L, etc. Preservative: HCl, HNO3, NaOH, etc.





34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Co. Name: **PENNSYLVANIA TECHNOLOGIES, INC.**
Contact (Report to): **MERRIN GILGILLON** Phone: **570-487-1959**
Address: **723 MAIN STREET
ARMBARD PA 18403**

Bill to (if different than Report to):

PO#:

Project Name/ID: **Lewis Bros / 27058.02** ALS Quote #:

TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.

Date Required:
Approved By:

Email? Y
Fax? N

Y No.: **Agilgillon@pa-technologies.com**

Sample Description/Location
(as it will appear on the lab report)

COC Comments

Sample Date

Military Time

1 **058-1110-TB40A**

11.18.15 1432

6.50

Unknown Gasoline

2 **058-1110-TB40B**

11.18.15 1441

6.50

Unknown Gasoline

Enter Number of Containers Per Analysis

Container Type	CG	CG	CG	CG
46ml	46ml	46ml	46ml	46ml
16oz	16oz	16oz	16oz	16oz

ANALYSES/METHOD REQUESTED

AGTS

Receipt Information
(Completed by Sample Receiving)
Received by: **MS**
Cooler Temp: **22**
Therm. ID: **TH-394**
No. of Coolers:

Notes:

Correct containers?	Y	N
(If present) Seals Intact?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Vol/Leak?	Y	N
CO/Labels completely accurate?	Y	N
Container in good condition?	Y	N

ALS FIELD SERVICES

Pickup	<input type="checkbox"/>
Labor	<input type="checkbox"/>
Composite Sampling	<input type="checkbox"/>
Rental Equipment	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Data Deliverables

Standard	<input type="checkbox"/>
CLP-820	<input type="checkbox"/>
NJ-Reduced	<input type="checkbox"/>
NJ-Full	<input type="checkbox"/>
Other:	<input type="checkbox"/>

SDWA Forms? MD NJ NY PA

Some Samples Collected?

EDS Required?

DDD Criteria Required?

SAMPLED BY (Please Print): **Kevin Cucura**

Relinquished By / Company Name: **PA Techno / PA Techno**

Date	Time	Received By / Company Name	Date	Time
11.19.15	0700	[Signature]	11.19.15	0700
11.18.15	10:38	[Signature]	11.18.15	10:38

*G=Grab; C=Composite **Matrix: A=Air; D=W=Drinking Water; G=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG=Amber Glass; CG=Clear Glass, PL=Plastic. Container Size: 250ml, 500ml, 1L, 5oz, etc. Preservative: HCL, HNO3, NaOH, etc.



Pennsylvania tectonics

Co. Name: Pennsylvania Tectonics, Inc.
Contact (report to): Martin Gilgallon
Address: 723 Main Street
Archbald, PA 18403
Phone No.: 570-487-1959
Project No.: 27058
Project Name: Lewis Brothers Garage Property

Email: mgilgallon@patectonics.com

Delivery Method: Hand Delivered
Tracking Number:
Shipping Date: 11/19/2015

Sample Date(s): November 18, 2015

Sampled By: Kevin Cucura

Special Notes: Soil Sampling

Parameters: Short lists for Unleaded Gasoline & Leaded Gasoline limited to the following:

- Benzene
- EDB
- EDC
- Ethylbenzene
- Cumene
- MTBE
- Naphthalene
- Toluene
- 1,2,4-TMB
- 1,3,5-TMB
- Xylenes (Total)
- Dissolved Lead

environmental consultants

723 Main Street / Archbald, PA 18403 / p. 570.487.1959 / f. 570.487.1961 / pgatectonics@hotmail.com

APPENDIX X

Groundwater Analytical Data Sheets and Summary Tables

TABLE 001
Groundwater Audit Site Data Summary
Groundwater Monitoring wells
Leach 001/05

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Raw Data Groundwater Elevation (feet)	Product Reservoir (feet)	Restriction Status	WT00		Elev. Deviate		Comments	Turbidity	Refractivity	Conduct	T.D.C	T.D.F.WB	T.D.F.WB	T.D.C	T.D.C
							2005.1	2005.2	2005.1	2005.2									
Well 01 Total Depth: 30.0 Screen at 10.00 20.0 - 4.0	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
Well 02 Total Depth: 30.0 Screen at 10.00 20.0 - 10.0	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
Well 03 Total Depth: 30.0 Screen at 10.00 20.0 - 10.0	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	
	1/10/2005	1013.26	10.32	1002.94	0.00	NA	0.0	-0.0	-0.0	-0.0	0.00	100	10.000	0	10	100	1.01	0	

NA Not Measured
WT00 Water Table (feet)
T.D.C Conductivity (µmhos/cm)
T.D.F.WB Total Dissolved Solids (mg/L)
T.D.COR Total Dissolved Solids (mg/L)
WT Water Table (feet)
NA Not Measured

* Note the product reservoir depth to groundwater is not provided as long as product is not in FA.

FA A12 001/05 Leach 001/05
Total Depth: 30.0
Screen at 10.00
20.0 - 10.0

Product Reservoir (feet)

Restriction Status

Comments

Turbidity

Refractivity

Conduct

T.D.C

T.D.F.WB

T.D.F.WB

T.D.C

T.D.C

06/06/18

TABLE W1
Groundwater Analytical Data Summary
Groundwater Monitoring Wells
Lewis Brothers

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Native Groundwater Elevation (feet)	Product Treatment	Remediation Status	MTBE		Benzene		Dihl-Benzene		Toluene		Xylene		1,2-EDC		1,2,4-TMB		1,2,5-TMB		1,2,6-TMB		Lead	
							µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
WW-11	06/06/18	50	50	50	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total Depth: 20.0'	07/06/18	50	50	50	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Screened Interval 20.0' - 0.0'	08/06/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	09/06/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	10/06/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	11/06/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	12/06/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	01/07/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	02/07/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	03/07/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/07/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/07/18	140.4	4.0	140.4	NO	NO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NW Net Microned
 MTBE Meth Tert Butyl Ether
 1,2-EDC 1,2-Dichloroethane
 1,2,4-TMB 1,2,4-Triethylbenzene
 1,2,5-TMB 1,2,5-Triethylbenzene
 1,2,6-TMB 1,2,6-Triethylbenzene
 ND Not Detected
 NA Not Analyzed

Total Depth, Open Rock Interval and Screened Interval measured from grade for reference only.
 Refer to the Well Construction Details for specific depths and elevations.

PA Act 2 Benzene Health Standard for Residential Use Aquifer setting
 Shaded values indicate Act 2 Benzene Health Standard exceedance

TABLE W-1
Groundwater Analytical Data Summary
Groundwater Monitoring Wells
Lewis Brothers

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	MIBE	Benzene	Ethyl Benzene	Chloroform	Toluene	1,1-Dichloroethane	Xylenes	1,2-DC	1,3,5-TMB	1,3,5-TMB	1,2-EBB	Lead	
							(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW 51a																			
Total Depth: 30.2 Screened Interval: 30.2' - 10.2'	4650008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	71050008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	44650009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3560010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8050010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8090011	1480.92	32.80	1450.12	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	117420011	1480.92	32.76	1450.16	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	10150012	1480.92	32.45	1450.47	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	102420013	1480.92	32.79	1450.13	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	3500014	1480.92	NA	NA	0.00	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8050014	1480.92	32.73	1450.19	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	117050014	1480.92	33.68	1449.04	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	10850015	1480.92	32.76	1450.16	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
4010016	1480.92	32.71	1450.21	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA	
80420016	1480.92	32.73	1450.17	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	
MW 71a																			
Total Depth: 30.0' Screened Interval: 30.0' - 10.0'	4650008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	71050008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	44650009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3560010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8050010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8090011	1502.17	18.47	1483.70	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	117050011	1502.17	18.46	1483.71	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	80420012	1502.17	18.51	1483.66	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	102420013	1502.17	17.18	1494.99	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	3600014	1502.17	18.66	1481.51	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	8400014	1502.17	18.06	1483.12	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	117050014	1502.17	18.84	1481.33	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0
	10850015	1502.17	18.76	1481.41	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0
4010016	1502.17	18.20	1485.97	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	
80420016	1502.17	17.47	1494.70	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	
MW 60																			
Total Depth: 70.0' Open Rock Interval: 70.0' - 40.0'	4650008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	71050008	1512.22	22.61	1489.61	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	44650009	1512.22	43.90	1468.32	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	3560010	1512.22	43.11	1469.11	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	8050010	1512.22	43.87	1468.35	0.00	NA	<1.0	<1.0	<1.0	<1.0	2.8	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	8090011	1512.22	41.79	1470.43	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	117050011	1512.22	41.66	1470.56	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	80420012	1512.22	41.20	1473.02	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	10420013	1512.22	41.41	1472.81	0.00	NA	<1.0	<1.0	<1.0	<1.0	1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	3500014	1512.22	40.80	1471.42	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	8400014	1512.22	40.66	1471.56	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	117050014	1512.22	43.03	1469.19	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0
	10850015	1512.22	43.91	1468.31	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0
4010016	1512.22	41.33	1470.89	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	
80420016	1512.22	41.54	1470.68	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	
MW 20																			
Total Depth: 85.0' Open Rock Interval: 85.0' - 45.0'	4650008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	71050008	1512.20	17.53	1494.67	0.00	NA	17.7	14.3	<5.0	<5.0	7.0	<5.0	27.6	<5.0	<5.0	5.2	<10.0	<5.0	<5.0
	44650009	1512.20	14.24	1498.27	0.00	NA	10.5	26.1	145.0	11.0	17.8	16.1	19.2	NA	18.5	<5.0	NA	NA	NA
	3560010	1512.20	15.43	1497.77	0.00	NA	18.1	19.0	3.8	10.7	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	8050010	1512.20	17.14	1495.27	0.00	NA	17.4	4.5	15.9	3.7	<2.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	8090011	1512.20	15.46	1500.65	0.00	NA	10.1	27.3	88.7	5.4	10.3	9.0	74.0	NA	17.7	2.2	NA	NA	NA
	117050011	1512.20	15.20	1500.83	0.00	NA	9.2	26.4	46.3	6.1	4.2	<2.0	10.3	NA	4.8	<1.0	NA	NA	NA
	10420012	1512.20	17.29	1497.91	0.00	NA	8.8	18.1	50.3	7.1	6.8	<2.0	11.8	NA	13.0	<1.0	NA	NA	NA
	102420013	1512.20	14.26	1499.94	0.00	NA	3.9	10.3	27.5	6.8	5.1	<2.0	29.1	NA	13.0	<1.0	NA	NA	NA
	3500014	1512.20	13.89	1499.31	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	NA	<1.0	<1.0	NA	NA	NA
	8400014	1512.20	14.18	1498.25	0.00	NA	5.4	7.7	26.9	4.9	3.4	<2.0	3.8	NA	1.3	<1.0	NA	NA	NA
	117050014	1512.20	20.81	1487.39	0.00	NA	4.0	6.6	20.8	6.1	2.1	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10850015	1512.20	19.55	1488.65	0.00	NA	3.0	4.4	11.5	3.8	1.4	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4010016	1512.20	20.10	1488.10	0.00	NA	2.7	3.3	10.7	5.1	2.9	<2.0	3.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
80420016	1512.20	19.56	1488.64	0.00	NA	4.9	1.8	<1.0	1.8	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	

NM Not Measured
MIBE Methyl Tert Butyl Ether
1,2-DC 1,2-Dichloroethane
1,3,5-TMB 1,3,5-Trimethylbenzene
1,3,5-TMB 1,3,5-Trimethylbenzene
1,2-EBB 1,2-Dibromobenzene

06/06/18

TABLE W1
Groundwater Analytical Data Summary
Groundwater Monitoring Wells
Levis Brothers

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Treatment	Remediation Status	MTBE		Benzene		Dihl-Benzene		Toluene		Xylenes		1,2-EDC		1,2,4-TMB		1,2,5-TMB		1,2,4-DB		Lead		
							µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			
MW22	06/06/18	50	30	20	NO	NO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	07/05/08	51/13	31/17	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	08/05/08	51/13	34/23	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	09/05/08	51/13	30/19	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	10/05/08	51/13	30/19	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	11/05/08	51/13	31/20	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	12/05/08	51/13	30/19	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	01/06/09	51/13	30/19	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	02/06/09	51/13	31/20	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	03/06/09	51/13	31/20	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	04/06/09	51/13	31/20	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	05/06/09	51/13	31/20	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	06/06/09	51/13	31/20	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	07/06/09	51/13	31/20	180/20	0.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
MW23	06/06/18	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	07/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	08/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	09/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	10/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	11/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	12/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	01/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	02/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	03/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	04/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	05/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	06/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	07/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
MW24	06/06/18	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	07/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	08/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	09/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	10/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	11/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	12/05/08	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	01/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	02/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	03/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	04/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	05/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	06/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	07/06/09	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

NW Nitroaromatic
 MTBE Methyl Tertiary Butyl Ether
 1,2-EDC 1,2-Dichloroethane
 1,2,4-TMB 1,2,4-Triethylbenzene
 1,2,5-TMB 1,2,5-Triethylbenzene
 1,2,4-DB 1,2-Dibromobenzene
 NO Not Sampled
 ND Not Detected
 NA Not Analyzed

Total Depth, Open Rock Interval and Screened Interval measured from grade for reference only.
 Refer to the Well Construction Details for specific depths and elevations.

PA Act 2 Benzene Health Standard for Residential Use Aquifer setting
 Shaded values indicate Act 2 Benzene Health Standard exceedance

08/20/16

TABLE W-1
Groundwater Analytical Data Summary
Groundwater Monitoring Wells
Lewis Brothers

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	MDE (ug/L)	Benzene (ug/L)	Ethyl Benzene (ug/L)	Cumene (ug/L)	Toluene (ug/L)	Naphthalene (ug/L)	Xylenes (ug/L)	1,2-EDC (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	1,2-EDB (ug/L)	Lead (ug/L)
MW 110	4/9/2009	NS	NS	NS	NS	NS	20	5	200	NS	1,000	NS	10,000	5	NS	420	0.05	5
	7/10/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/9/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/2/2010	1499.13	78.21	1420.92	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	9/27/2011	1499.19	87.95	1411.24	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	11/9/2011	1499.13	89.23	1409.95	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	9/13/2012	1499.18	70.68	1428.50	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	10/4/2013	1499.18	73.42	1425.76	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	2/4/2014	1499.18	72.05	1427.13	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	9/2/2014	1499.18	72.59	1426.59	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	11/24/2014	1499.18	76.94	1422.24	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02
10/9/2015	1499.18	76.25	1422.93	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.019	<2.0
4/17/2016	1499.19	71.01	1428.18	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02	<2.0
6/22/2016	1499.19	74.74	1424.44	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02	<2.0
MW 120	4/9/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/10/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/9/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/2/2010	1487.48	86.57	1420.91	0.00	NA	4.6	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	9/27/2011	1487.48	89.53	1417.95	0.00	NA	5.3	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	11/9/2011	1487.48	81.07	1426.41	0.00	NA	7.9	17.6	<1.0	<1.0	<1.0	<2.0	4.4	NA	<1.0	<1.0	<1.0	NA
	9/13/2012	1487.48	82.69	1424.79	0.00	NA	2.3	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	8/9/2012	1487.48	84.39	1423.09	0.00	NA	4.4	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	10/4/2013	1487.48	85.33	1422.15	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	2/4/2014	1487.48	83.95	1423.53	0.00	NA	1.4	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	9/2/2014	1487.48	84.39	1423.10	0.00	NA	1.7	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
11/24/2014	1487.48	89.31	1419.17	0.00	NA	1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02	<2.0
10/9/2015	1487.48	88.01	1419.47	0.00	NA	2.6	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02	<2.0
3/1/2016	1487.48	85.09	1422.39	0.00	NA	2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02	<2.0
6/22/2016	1487.48	86.76	1420.72	0.00	NA	2.8	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.019	<2.0
MW 130	4/9/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/10/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/9/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/2/2010	1471.85	51.02	1420.83	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	9/27/2011	1471.85	43.94	1427.91	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	11/9/2011	1471.85	45.48	1426.36	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	9/13/2012	1471.85	47.15	1424.74	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	10/4/2013	1471.85	49.72	1422.13	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	2/4/2014	1471.85	49.44	1422.41	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	9/2/2014	1471.85	48.78	1423.06	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	NA	<1.0	<1.0	<1.0	NA
	11/24/2014	1471.85	52.69	1419.16	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02
10/9/2015	1471.85	52.45	1419.40	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02	<2.0
3/1/2016	1471.85	49.48	1422.37	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02	<2.0
6/22/2016	1471.85	51.11	1420.74	0.00	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.02	<2.0

NS Not Measured
MDE Methyl Tert Butyl Ether
1,2-EDC 1,2-Dichloroethane
1,2,4-TMB 1,2,4-Trimethylbenzene
1,3,5-TMB 1,3,5-Trimethylbenzene
1,2-EDB 1,2-Dibromoethane
NS Not Sampled
ND Not Detected
NA Not Analyzed

Total Depth, Open Rock Interval and Screened Interval measured from grade for reference only. Refer to the Well Construction Details for specific depths and elevations.

PA Act 2 Statewide Health Standards for Residential Used Aquifer setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

Groundwater Sampling Analytical Data Sheets

April 5, 2008

QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

April 14, 2008

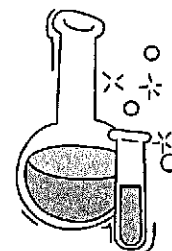
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058.03
Sample Matrix: Ground Water
Sample Date: 05-Apr-08
Sample Time: 8:05
Sampled By: client
Received By: RP
Date Received: 07-Apr-08
Time Received: 14:47

Parameter	Result	Units	Method	Analyzed
058.0405-MW1S				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	09-Apr-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	12-Apr-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

April 14, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058.03
Sample Matrix: Ground Water
Sample Date: 05-Apr-08
Sample Time: 9:40
Sampled By: client
Received By: RP
Date Received: 07-Apr-08
Time Received: 14:47

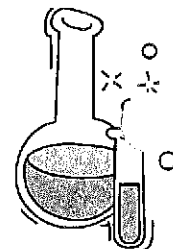
Parameter	Result	Units	Method	Analyzed
058.0405-MW4S				
MTBE	60.5	ug/L	EPA 5030B/ 8260B	12-Apr-08
Benzene	96.1	ug/L	EPA 5030B/ 8260B	12-Apr-08
Ethylbenzene	62.3	ug/L	EPA 5030B/ 8260B	12-Apr-08
Isopropylbenzene	37.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Toluene	122	ug/L	EPA 5030B/ 8260B	12-Apr-08
Naphthalene	78.5	ug/L	EPA 5030B/ 8260B	12-Apr-08
Xylenes (total)	696	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2,4-Trimethylbenzene	292	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,3,5-Trimethylbenzene	206	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	09-Apr-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	12-Apr-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

April 14, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058.03
Sample Matrix: Ground Water
Sample Date: 05-Apr-08
Sample Time: 8:45
Sampled By: client
Received By: RP
Date Received: 07-Apr-08
Time Received: 14:47

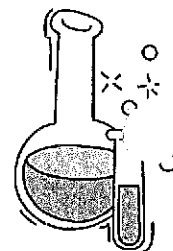
Parameter	Result	Units	Method	Analyzed
058.0405-MW5S				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	09-Apr-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	12-Apr-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

April 14, 2008

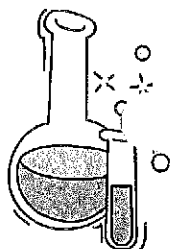
Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058.03
Sample Matrix: DI Water
Sample Date: 05-Apr-08
Sample Time: 9:50
Sampled By: client
Received By: RP
Date Received: 07-Apr-08
Time Received: 14:47

Parameter	Result	Units	Method	Analyzed
058.0405-FB1				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	12-Apr-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	09-Apr-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	12-Apr-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593
PHONE: (570) 489-6964 **FAX: (570) 489-6965**



CHAIN OF CUSTODY

Special Requirements

PA DEP ASTM TCLP
 RCRA USE FORM U
 FORM 43

Other _____
 pH _____ Temp _____
 TAT: RUSH Lewis Bes
NORMAL

PROJECT: 27058.03

**Location
 Sample Description**

058 0405 MWW5
 058 0405 MWW5
 058 0405 MWW5
 058 0405 MWW5
 058 0405 FB1

Date Sampled
 Time Sampled

Matrix
 # of Cont / Size

PRSV / Cont Type
 Grab / Composite

ANALYSIS TO BE PERFORMED

Unleaded
 Lead
 Cadmium
 TSS
 1.2.4-TMB
 1.3.5-TMB

Quantum ID

014-040708
 015-040708
 016-
 017-
 ↓

P - Plastic CG - Glass AG - Amber Glass O - Other PO #

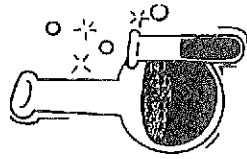
Invoice # 10184

QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

Dickson City Industrial Park
 824 Enterprise Street
 Dickson City, PA 18519-1593

DW - Drinking Water SL - Sludge
 GW - Ground Water SO - Soil
 SW - Surface Water HZ - Hazardous
 WW - Waste Water Other



Phone: (570) 489-6964 Fax: (570) 489-6965

Report to: Pennington Tobacco
824 MAIN STREET
PERKINS PA 18457
 Contact: MARTIN GILBERT
 Phone: 483-1959 Fax: 483-1961
 Bill to: PENNSYLVANIA TOBACCO
824 MAIN STREET
PERKINS PA 18452

Comments: MWW-2 NOT SAMPLED due to Spec Product

Intact Containers Y N Within Holding Times Y N
 COC Complete Y N Labels Match COC Y N
 Properly Preserved Y N Rec'd on Ice Y N

Shipped _____ Hand Delivered _____
 Received By: Paul Pichichio Date: 4-7-08 Time: 1435
 Date: 4/3/08 Time: 1435
 Date: _____ Time: _____
 Date: _____ Time: _____

Groundwater Sampling Analytical Data Sheets

July 10, 2008

QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 8:27
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-MW1S				
MTBE	80.4	ug/L	EPA 5030B/ 8260B	18-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 9:26
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-MW1D				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 12:05
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-MW2S				
MTBE	2190	ug/L	EPA 5030B/ 8260B	18-Jul-08
Benzene	5868	ug/L	EPA 5030B/ 8260B	18-Jul-08
Ethylbenzene	2498	ug/L	EPA 5030B/ 8260B	18-Jul-08
Isopropylbenzene	193	ug/L	EPA 5030B/ 8260B	18-Jul-08
Toluene	12044	ug/L	EPA 5030B/ 8260B	18-Jul-08
Naphthalene	681	ug/L	EPA 5030B/ 8260B	18-Jul-08
Xylenes (total)	11834	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dichloroethane	92.3	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2,4-Trimethylbenzene	3432	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,3,5-Trimethylbenzene	975	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dibromoethane	17.5	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	14.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 11:38
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-MW2D				
MTBE	17.7	ug/L	EPA 5030B/ 8260B	18-Jul-08
Benzene	14.6	ug/L	EPA 5030B/ 8260B	18-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Toluene	7.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
Xylenes (total)	47.6	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,3,5-Trimethylbenzene	5.2	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 12:16
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-MW3S				
MTBE	987	ug/L	EPA 5030B/ 8260B	18-Jul-08
Benzene	6956	ug/L	EPA 5030B/ 8260B	18-Jul-08
Ethylbenzene	3180	ug/L	EPA 5030B/ 8260B	18-Jul-08
Isopropylbenzene	172	ug/L	EPA 5030B/ 8260B	18-Jul-08
Toluene	18303	ug/L	EPA 5030B/ 8260B	18-Jul-08
Naphthalene	820	ug/L	EPA 5030B/ 8260B	18-Jul-08
Xylenes (total)	15668	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dichloroethane	12.9	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2,4-Trimethylbenzene	3026	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,3,5-Trimethylbenzene	804	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dibromoethane	4.54	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 10:57
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-MW4S				
MTBE	105	ug/L	EPA 5030B/ 8260B	18-Jul-08
Benzene	194	ug/L	EPA 5030B/ 8260B	18-Jul-08
Ethylbenzene	437	ug/L	EPA 5030B/ 8260B	18-Jul-08
Isopropylbenzene	66.9	ug/L	EPA 5030B/ 8260B	18-Jul-08
Toluene	103	ug/L	EPA 5030B/ 8260B	18-Jul-08
Naphthalene	122	ug/L	EPA 5030B/ 8260B	18-Jul-08
Xylenes (total)	785	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2,4-Trimethylbenzene	440	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,3,5-Trimethylbenzene	151	ug/L	EPA 5030B/ 8260B	18-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 8:58
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-MW5S				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	21-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 9:50
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-MW6S				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Toluene	5.1	ug/L	EPA 5030B/ 8260B	19-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 10:23
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-MW6d				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: DI Water
Sample Date: 10-Jul-08
Sample Time: 11:15
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-FB1				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 13:13
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-OW1				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 13:40
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-OW2				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 14:05
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-OW3				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

July 25, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 10-Jul-08
Sample Time: 14:30
Sampled By: client
Received By: MN
Date Received: 10-Jul-08
Time Received: 15:30

Parameter	Result	Units	Method	Analyzed
058-0710-OW4				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dichloroethane	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	19-Jul-08
1,2-Dibromoethane	< 0.02	ug/L	EPA 504.1	17-Jul-08
Lead (dissolved)	< 5.0	ug/L	EPA 7421	17-Jul-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



Groundwater Sampling Analytical Data Sheets

July 28, 2008

QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

August 2, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: Ground Water
Sample Date: 28-Jul-08
Sample Time: 9:32
Sampled By: client
Received By: VR
Date Received: 28-Jul-08
Time Received: 11:10

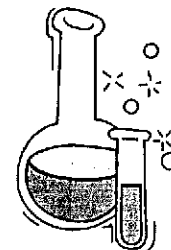
Parameter	Result	Units	Method	Analyzed
058-0728-MW1S				
MTBE	58.6	ug/L	EPA 5030B/ 8260B	01-Aug-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


ANALYTICAL REPORT

August 2, 2008

Martin Gilgallon
Pennsylvania Tectonics, Inc.
826 Main Street
Peckville, PA 18452

Project: 27058
Sample Matrix: DI Water
Sample Date: 28-Jul-08
Sample Time: 9:40
Sampled By: client
Received By: VR
Date Received: 28-Jul-08
Time Received: 11:10

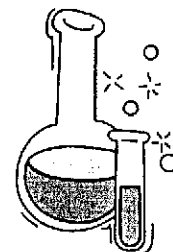
Parameter	Result	Units	Method	Analyzed
058-0728-FB1				
MTBE	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Benzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Ethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Isopropylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Toluene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Naphthalene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
Xylenes (total)	< 15.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
1,2,4-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08
1,3,5-Trimethylbenzene	< 5.0	ug/L	EPA 5030B/ 8260B	01-Aug-08


Joe R. Mussari, III
Laboratory Director

**DICKSON CITY INDUSTRIAL PARK
824 ENTERPRISE STREET
DICKSON CITY, PA 18519-1593**

PHONE: (570) 489-6964

FAX: (570) 489-6965



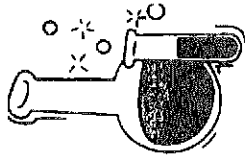
CHAIN OF CUSTODY

Special Requirements

PA DEP ASTM TCLP
 RCRA USE FORM U
 FORM 43

Other _____
 pH _____ Temp _____
 TAT: RUSH _____ NORMAL

PROJECT: 27052.03



QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

Dickson City Industrial Park
 824 Enterprise Street
 Dickson City, PA 18519-1593

Phone: (570) 489-6964

Page 1 of 1
 Fax: (570) 489-6965

Report to: Pennsylvania Telectonics
826 Main Street
Peckville PA 18452
 Contact: Martin G. Galligan
 Phone: 487.1959 Fax: 487.1959
 Bill to: Pennsylvania Telectonics
826 Main Street
Peckville PA 18452

DW - Drinking Water SL - Sludge
 GW - Ground Water SO - Soil
 SW - Surface Water HZ - Hazardous
 WW - Waste Water Other _____

P - Plastic CG - Glass AG - Amber Glass O - Other PO # 10325

ANALYSIS TO BE PERFORMED

Matrix	# of Cont / Size	PRSV / Cont Type	Grab / Composite	ANALYSIS TO BE PERFORMED										Invoice #	PO #	
				155-TMB	124-TMB	unleaded gas	X	X	X	X	X	X	X			X
GW 3	3	HCL	G	X	X	X	X	X	X	X	X	X	X	X	004-72808	Quantum ID
UI 3	3	HCL	G	X	X	X	X	X	X	X	X	X	X	X	005-72808	

Comments:

Intact Containers Y N Within Holding Times Y N
 COC Complete Y N Labels Match COC Y N
 Properly Preserved Y N Rec'd on Ice Y N

Sample: Jerry Luchansky Shipped Hand Delivered
 Relinquished By: Jerry Luchansky Date: 7/28/08 Time: 11:0
 Relinquished By: _____ Date: _____ Time: _____

Groundwater Sampling Analytical Data Sheets

April 6, 2009



Certificate of Analysis

Project Name:	LEWIS BROTHERS - PA SITE	Workorder:	9783633
Purchase Order:	27058	Workorder ID:	LEWIS BROTHERS - PA SITE

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

April 21, 2009

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, April 08, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Discard Date: 05/04/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9783633001	058.0406.MW1s	Ground Water	4/6/09 08:20	4/8/09 09:25	Customer
9783633002	058.0406.MW2s	Ground Water	4/6/09 09:12	4/8/09 09:25	Customer
9783633003	058.0406.MW3s	Ground Water	4/6/09 09:30	4/8/09 09:25	Customer
9783633004	058.0406.MW4s	Ground Water	4/6/09 12:32	4/8/09 09:25	Customer
9783633005	058.0406.MW5s	Ground Water	4/6/09 10:43	4/8/09 09:25	Customer
9783633006	058.0406.MW6s	Ground Water	4/6/09 13:27	4/8/09 09:25	Customer
9783633007	058.0406.MW1d	Ground Water	4/6/09 09:25	4/8/09 09:25	Customer
9783633008	058.0406.MW2d	Ground Water	4/6/09 16:10	4/8/09 09:25	Customer
9783633009	058.0406.MW6d	Ground Water	4/6/09 14:21	4/8/09 09:25	Customer
9783633010	058.0406.MW7d	Ground Water	4/6/09 15:21	4/8/09 09:25	Customer
9783633011	058.0406.OW1	Ground Water	4/6/09 07:47	4/8/09 09:25	Customer
9783633012	058.0406.OW2	Ground Water	4/6/09 08:10	4/8/09 09:25	Customer
9783633013	058.0406.OW3	Ground Water	4/6/09 08:27	4/8/09 09:25	Customer
9783633014	058.0406.OW4	Ground Water	4/6/09 08:51	4/8/09 09:25	Customer
9783633015	058.0406.FB1	Ground Water	4/6/09 16:15	4/8/09 09:25	Customer
9783633016	TRIP BLANK	Ground Water	4/8/09 09:25	4/8/09 09:25	Customer
9783633017	058.0406.SW1	Ground Water	4/6/09 07:16	4/8/09 09:25	Customer
9783633018	058.0406.SW2	Ground Water	4/6/09 07:29	4/8/09 09:25	Customer
9783633019	058.0406.SW3	Ground Water	4/6/09 07:36	4/8/09 09:25	Customer

Workorder Comments:



SAMPLE SUMMARY

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Discard Date: 05/04/2009

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
--------	-----------	--------	----------------	---------------	--------------

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633001
Sample ID: 058.0406.MW1s

Date Collected: 4/6/2009 08:20
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:34	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:34	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:34	MES	A
Methyl t-Butyl Ether	11.5		ug/L	1.0	SW846 8260B		4/16/09 10:34	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 10:34	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:34	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 10:34	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:34	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:34	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.8		%	62-133	SW846 8260B		4/16/09 10:34	MES	A
4-Bromofluorobenzene (S)	80		%	79-114	SW846 8260B		4/16/09 10:34	MES	A
Dibromofluoromethane (S)	89.2		%	78-116	SW846 8260B		4/16/09 10:34	MES	A
Toluene-d8 (S)	90.1		%	76-127	SW846 8260B		4/16/09 10:34	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633002 Date Collected: 4/6/2009 09:12 Matrix: Ground Water
Sample ID: 058.0406.MW2s Date Received: 4/8/2009 09:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	15300		ug/L	1000	SW846 8260B		4/17/09 04:35	MES	B
Ethylbenzene	14400		ug/L	1000	SW846 8260B		4/17/09 04:35	MES	B
Isopropylbenzene	1610		ug/L	50.0	SW846 8260B		4/16/09 12:08	MES	A
Methyl t-Butyl Ether	5380		ug/L	50.0	SW846 8260B		4/16/09 12:08	MES	A
Naphthalene	4480		ug/L	100	SW846 8260B		4/16/09 12:08	MES	A
Toluene	56400		ug/L	1000	SW846 8260B		4/17/09 04:35	MES	B
Total Xylenes	95700		ug/L	3000	SW846 8260B		4/17/09 04:35	MES	B
1,2,4-Trimethylbenzene	78800		ug/L	1000	SW846 8260B		4/17/09 04:35	MES	B
1,3,5-Trimethylbenzene	8840		ug/L	50.0	SW846 8260B		4/16/09 12:08	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	73.6		%	62-133	SW846 8260B		4/16/09 12:08	MES	A
Toluene-d8 (S)	87.4		%	76-127	SW846 8260B		4/16/09 12:08	MES	A
4-Bromofluorobenzene (S)	83.2		%	79-114	SW846 8260B		4/16/09 12:08	MES	A
Dibromofluoromethane (S)	78.9		%	78-116	SW846 8260B		4/16/09 12:08	MES	A
1,2-Dichloroethane-d4 (S)	99.1		%	62-133	SW846 8260B		4/17/09 04:35	MES	B
Toluene-d8 (S)	104		%	76-127	SW846 8260B		4/17/09 04:35	MES	B
4-Bromofluorobenzene (S)	90.4		%	79-114	SW846 8260B		4/17/09 04:35	MES	B
Dibromofluoromethane (S)	95.4		%	78-116	SW846 8260B		4/17/09 04:35	MES	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633003
Sample ID: 058.0406.MW3s

Date Collected: 4/6/2009 09:30
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	13700		ug/L	1000	SW846 8260B		4/17/09 05:06	MES	B
Ethylbenzene	6400		ug/L	50.0	SW846 8260B		4/16/09 12:38	MES	A
Isopropylbenzene	496		ug/L	50.0	SW846 8260B		4/16/09 12:38	MES	A
Methyl t-Butyl Ether	752		ug/L	50.0	SW846 8260B		4/16/09 12:38	MES	A
Naphthalene	1400		ug/L	100	SW846 8260B		4/16/09 12:38	MES	A
Toluene	68900		ug/L	1000	SW846 8260B		4/17/09 05:06	MES	B
Total Xylenes	101000		ug/L	3000	SW846 8260B		4/17/09 05:06	MES	B
1,2,4-Trimethylbenzene	63200		ug/L	1000	SW846 8260B		4/17/09 05:06	MES	B
1,3,5-Trimethylbenzene	2710		ug/L	50.0	SW846 8260B		4/16/09 12:38	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	75.3		%	62-133	SW846 8260B		4/16/09 12:38	MES	A
4-Bromofluorobenzene (S)	84.8		%	79-114	SW846 8260B		4/16/09 12:38	MES	A
Toluene-d8 (S)	93.4		%	76-127	SW846 8260B		4/16/09 12:38	MES	A
Dibromofluoromethane (S)	80.3		%	78-116	SW846 8260B		4/16/09 12:38	MES	A
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		4/17/09 05:06	MES	B
4-Bromofluorobenzene (S)	90.7		%	79-114	SW846 8260B		4/17/09 05:06	MES	B
Toluene-d8 (S)	101		%	76-127	SW846 8260B		4/17/09 05:06	MES	B
Dibromofluoromethane (S)	95.7		%	78-116	SW846 8260B		4/17/09 05:06	MES	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633004 Date Collected: 4/6/2009 12:32 Matrix: Ground Water
Sample ID: 058.0406.MW4s Date Received: 4/8/2009 09:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	259		ug/L	5.0	SW846 8260B		4/16/09 11:05	MES	A
Ethylbenzene	668		ug/L	5.0	SW846 8260B		4/16/09 11:05	MES	A
Isopropylbenzene	63.3		ug/L	5.0	SW846 8260B		4/16/09 11:05	MES	A
Methyl t-Butyl Ether	118		ug/L	5.0	SW846 8260B		4/16/09 11:05	MES	A
Naphthalene	64.9		ug/L	10.0	SW846 8260B		4/16/09 11:05	MES	A
Toluene	48.4		ug/L	5.0	SW846 8260B		4/16/09 11:05	MES	A
Total Xylenes	336		ug/L	15.0	SW846 8260B		4/16/09 11:05	MES	A
1,2,4-Trimethylbenzene	376		ug/L	5.0	SW846 8260B		4/16/09 11:05	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B		4/16/09 11:05	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	77.8		%	62-133	SW846 8260B		4/16/09 11:05	MES	A
4-Bromofluorobenzene (S)	85.9		%	79-114	SW846 8260B		4/16/09 11:05	MES	A
Dibromofluoromethane (S)	82.5		%	78-116	SW846 8260B		4/16/09 11:05	MES	A
Toluene-d8 (S)	91.3		%	76-127	SW846 8260B		4/16/09 11:05	MES	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633005 Date Collected: 4/6/2009 10:43 Matrix: Ground Water
Sample ID: 058.0406.MW5s Date Received: 4/8/2009 09:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:27	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:27	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:27	ECR	A
Methyl t-Butyl Ether	2.1		ug/L	1.0	SW846 8260B		4/16/09 00:27	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 00:27	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:27	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 00:27	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:27	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:27	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.1		%	62-133	SW846 8260B		4/16/09 00:27	ECR	A
4-Bromofluorobenzene (S)	83.6		%	79-114	SW846 8260B		4/16/09 00:27	ECR	A
Dibromofluoromethane (S)	88.8		%	78-116	SW846 8260B		4/16/09 00:27	ECR	A
Toluene-d8 (S)	92.9		%	76-127	SW846 8260B		4/16/09 00:27	ECR	A

Sample Comments:

The method of analysis for the volatile organics requires samples with residual chlorine to be dechlorinated at the time of collection using a dechlorinating agent. This sample contained residual chlorine when received by the laboratory.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633006 Date Collected: 4/6/2009 13:27 Matrix: Ground Water
Sample ID: 058.0406.MW6s Date Received: 4/8/2009 09:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:58	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:58	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:58	ECR	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 00:58	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 00:58	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:58	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 00:58	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:58	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 00:58	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.1		%	62-133	SW846 8260B		4/16/09 00:58	ECR	A
4-Bromofluorobenzene (S)	83.2		%	79-114	SW846 8260B		4/16/09 00:58	ECR	A
Dibromofluoromethane (S)	87.7		%	78-116	SW846 8260B		4/16/09 00:58	ECR	A
Toluene-d8 (S)	94.2		%	76-127	SW846 8260B		4/16/09 00:58	ECR	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633007
Sample ID: 058.0406.MW1d

Date Collected: 4/6/2009 09:25
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 01:30	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 01:30	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 01:30	ECR	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 01:30	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 01:30	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 01:30	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 01:30	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 01:30	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 01:30	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.8		%	62-133	SW846 8260B		4/16/09 01:30	ECR	A
4-Bromofluorobenzene (S)	85.4		%	79-114	SW846 8260B		4/16/09 01:30	ECR	A
Dibromofluoromethane (S)	83.9		%	78-116	SW846 8260B		4/16/09 01:30	ECR	A
Toluene-d8 (S)	92.1		%	76-127	SW846 8260B		4/16/09 01:30	ECR	A

Sample Comments:

The method of analysis for the volatile organics requires samples with residual chlorine to be dechlorinated at the time of collection using a dechlorinating agent. This sample contained residual chlorine when received by the laboratory.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633008
Sample ID: 058.0406.MW2d

Date Collected: 4/6/2009 16:10
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	25.5		ug/L	5.0	SW846 8260B		4/16/09 11:36	MES	A
Ethylbenzene	145		ug/L	5.0	SW846 8260B		4/16/09 11:36	MES	A
Isopropylbenzene	11.0		ug/L	5.0	SW846 8260B		4/16/09 11:36	MES	A
Methyl t-Butyl Ether	18.5		ug/L	5.0	SW846 8260B		4/16/09 11:36	MES	A
Naphthalene	16.1		ug/L	10.0	SW846 8260B		4/16/09 11:36	MES	A
Toluene	17.8		ug/L	5.0	SW846 8260B		4/16/09 11:36	MES	A
Total Xylenes	19.2		ug/L	15.0	SW846 8260B		4/16/09 11:36	MES	A
1,2,4-Trimethylbenzene	55.5		ug/L	5.0	SW846 8260B		4/16/09 11:36	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B		4/16/09 11:36	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.7		%	62-133	SW846 8260B		4/16/09 11:36	MES	A
4-Bromofluorobenzene (S)	81.1		%	79-114	SW846 8260B		4/16/09 11:36	MES	A
Dibromofluoromethane (S)	83.6		%	78-116	SW846 8260B		4/16/09 11:36	MES	A
Toluene-d8 (S)	90.9		%	76-127	SW846 8260B		4/16/09 11:36	MES	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633009
Sample ID: 058.0406.MW6d

Date Collected: 4/6/2009 14:21
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 02:01	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 02:01	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 02:01	ECR	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 02:01	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 02:01	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 02:01	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 02:01	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 02:01	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 02:01	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.1		%	62-133	SW846 8260B		4/16/09 02:01	ECR	A
4-Bromofluorobenzene (S)	88		%	79-114	SW846 8260B		4/16/09 02:01	ECR	A
Dibromofluoromethane (S)	82.8		%	78-116	SW846 8260B		4/16/09 02:01	ECR	A
Toluene-d8 (S)	95		%	76-127	SW846 8260B		4/16/09 02:01	ECR	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633010 Date Collected: 4/6/2009 15:21 Matrix: Ground Water
Sample ID: 058.0406.MW7d Date Received: 4/8/2009 09:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	18.7		ug/L	1.0	SW846 8260B		4/16/09 02:33	ECR	A
Ethylbenzene	3.7		ug/L	1.0	SW846 8260B		4/16/09 02:33	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 02:33	ECR	A
Methyl t-Butyl Ether	42.0		ug/L	1.0	SW846 8260B		4/16/09 02:33	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 02:33	ECR	A
Toluene	1.1		ug/L	1.0	SW846 8260B		4/16/09 02:33	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 02:33	ECR	A
1,2,4-Trimethylbenzene	1.7		ug/L	1.0	SW846 8260B		4/16/09 02:33	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 02:33	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81.4		%	62-133	SW846 8260B		4/16/09 02:33	ECR	A
4-Bromofluorobenzene (S)	79.2		%	79-114	SW846 8260B		4/16/09 02:33	ECR	A
Dibromofluoromethane (S)	83.2		%	78-116	SW846 8260B		4/16/09 02:33	ECR	A
Toluene-d8 (S)	95.6		%	76-127	SW846 8260B		4/16/09 02:33	ECR	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633011 Date Collected: 4/6/2009 07:47 Matrix: Ground Water
Sample ID: 058.0406.OW1 Date Received: 4/8/2009 09:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:04	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:04	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:04	ECR	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 03:04	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 03:04	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:04	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 03:04	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:04	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:04	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81		%	62-133	SW846 8260B		4/16/09 03:04	ECR	A
4-Bromofluorobenzene (S)	84.9		%	79-114	SW846 8260B		4/16/09 03:04	ECR	A
Dibromofluoromethane (S)	83.6		%	78-116	SW846 8260B		4/16/09 03:04	ECR	A
Toluene-d8 (S)	94.6		%	76-127	SW846 8260B		4/16/09 03:04	ECR	A

Sample Comments:

The method of analysis for the volatile organics requires samples with residual chlorine to be dechlorinated at the time of collection using a dechlorinating agent. This sample contained residual chlorine when received by the laboratory.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633012
Sample ID: 058.0406.OW2

Date Collected: 4/6/2009 08:10
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:35	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:35	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:35	ECR	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 03:35	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 03:35	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:35	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 03:35	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:35	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 03:35	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85		%	62-133	SW846 8260B		4/16/09 03:35	ECR	A
4-Bromofluorobenzene (S)	85.9		%	79-114	SW846 8260B		4/16/09 03:35	ECR	A
Dibromofluoromethane (S)	88		%	78-116	SW846 8260B		4/16/09 03:35	ECR	A
Toluene-d8 (S)	93.2		%	76-127	SW846 8260B		4/16/09 03:35	ECR	A

Sample Comments:

The method of analysis for the volatile organics requires samples with residual chlorine to be dechlorinated at the time of collection using a dechlorinating agent. This sample contained residual chlorine when received by the laboratory.

Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633013
Sample ID: 058.0406.OW3

Date Collected: 4/6/2009 08:27
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:40	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:40	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:40	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 08:40	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 08:40	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:40	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 08:40	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:40	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:40	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B		4/16/09 08:40	JAH	A
4-Bromofluorobenzene (S)	95.8		%	79-114	SW846 8260B		4/16/09 08:40	JAH	A
Dibromofluoromethane (S)	98.5		%	78-116	SW846 8260B		4/16/09 08:40	JAH	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		4/16/09 08:40	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633014
Sample ID: 058.0406.OW4

Date Collected: 4/6/2009 08:51
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:10	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:10	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:10	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 09:10	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 09:10	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:10	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 09:10	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:10	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:10	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62-133	SW846 8260B		4/16/09 09:10	JAH	A
4-Bromofluorobenzene (S)	94.7		%	79-114	SW846 8260B		4/16/09 09:10	JAH	A
Dibromofluoromethane (S)	99.6		%	78-116	SW846 8260B		4/16/09 09:10	JAH	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B		4/16/09 09:10	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633015 Date Collected: 4/6/2009 16:15 Matrix: Ground Water
Sample ID: 058.0406.FB1 Date Received: 4/8/2009 09:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:09	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:09	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:09	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 08:09	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 08:09	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:09	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 08:09	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:09	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 08:09	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	62-133	SW846 8260B		4/16/09 08:09	JAH	A
4-Bromofluorobenzene (S)	93.1		%	79-114	SW846 8260B		4/16/09 08:09	JAH	A
Dibromofluoromethane (S)	98.8		%	78-116	SW846 8260B		4/16/09 08:09	JAH	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B		4/16/09 08:09	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633016
Sample ID: TRIP BLANK

Date Collected: 4/8/2009 09:25
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 07:38	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 07:38	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 07:38	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 07:38	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 07:38	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 07:38	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 07:38	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 07:38	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 07:38	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62-133	SW846 8260B		4/16/09 07:38	JAH	A
4-Bromofluorobenzene (S)	94.1		%	79-114	SW846 8260B		4/16/09 07:38	JAH	A
Dibromofluoromethane (S)	96.6		%	78-116	SW846 8260B		4/16/09 07:38	JAH	A
Toluene-d8 (S)	99.7		%	76-127	SW846 8260B		4/16/09 07:38	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633017
Sample ID: 058.0406.SW1

Date Collected: 4/6/2009 07:16
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:41	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:41	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:41	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 09:41	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 09:41	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:41	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 09:41	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:41	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 09:41	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		4/16/09 09:41	JAH	A
4-Bromofluorobenzene (S)	94.8		%	79-114	SW846 8260B		4/16/09 09:41	JAH	A
Dibromofluoromethane (S)	98.7		%	78-116	SW846 8260B		4/16/09 09:41	JAH	A
Toluene-d8 (S)	100		%	76-127	SW846 8260B		4/16/09 09:41	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633018
Sample ID: 058.0406.SW2

Date Collected: 4/6/2009 07:29
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:12	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:12	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:12	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 10:12	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 10:12	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:12	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 10:12	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:12	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:12	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		4/16/09 10:12	JAH	A
4-Bromofluorobenzene (S)	90.7		%	79-114	SW846 8260B		4/16/09 10:12	JAH	A
Dibromofluoromethane (S)	96.1		%	78-116	SW846 8260B		4/16/09 10:12	JAH	A
Toluene-d8 (S)	103		%	76-127	SW846 8260B		4/16/09 10:12	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9783633 LEWIS BROTHERS - PA SITE

Lab ID: 9783633019
Sample ID: 058.0406.SW3

Date Collected: 4/6/2009 07:36
Date Received: 4/8/2009 09:25

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:43	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:43	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:43	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		4/16/09 10:43	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		4/16/09 10:43	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:43	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		4/16/09 10:43	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:43	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		4/16/09 10:43	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62-133	SW846 8260B		4/16/09 10:43	JAH	A
4-Bromofluorobenzene (S)	96		%	79-114	SW846 8260B		4/16/09 10:43	JAH	A
Dibromofluoromethane (S)	98.7		%	78-116	SW846 8260B		4/16/09 10:43	JAH	A
Toluene-d8 (S)	102		%	76-127	SW846 8260B		4/16/09 10:43	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



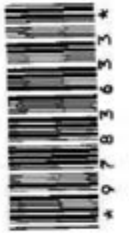
ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430



9 7 8 3 6 3 3 *

Page 1 of 3

Client: FEO Exy

Tracking #: 8189 Sat 6 7 11

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS

ALL SHADDED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services

34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: PENNSYLVANIA TETRONICS, Incorporated

Contact (Phone/Fax): MARTIN GIGALLON Phone: 570.487.1958

Address: 826 MAIN STREET

Rockville PA 18452

Bill to (if different than billed to):

PO#: 27058

Project Name/ID: Lewis Brothers Property ALSI Quote #:

TAT: Normal-Standard TAT is 10-12 business days. Rush-Subject to ALSI approval and surcharges.

Email? ptetronics@hytelco.com

Fax? No. 570.487.1961

Sample Description/Location: (Job # will appear on the lab report)

Sample No.	Sample Date	Military Time	Matrix	Enter Number of Containers Per Analysis
1 058.0406. MW15	4.6.08 0820	0820	G 64 Z	
2 058.0406. MW25	4.6.08 0912	0912	G 64 Z	
3 058.0406. MW35	4.6.08 0930	0930	G 64 Z	
4 058.0406. MW45	4.6.08 1232	1232	G 64 Z	
5 058.0406. MW55	4.6.08 1043	1043	G 64 Z	
6 058.0406. MW65	4.6.08 1327	1327	G 64 Z	
7 058.0406. MW1d	4.6.08 0925	0925	G 64 Z	
8 058.0406. MW2d	4.6.08 1010	1010	G 64 Z	

LOGGED BY (Signature): [Signature]

REVIEWED BY (Signature): [Signature]

Date: 4.7.09 0900

Received By / Company Name: [Signature] ALSI

Date: 4.7.09 0900

Received By / Company Name: [Signature] ALSI

Date: 4.7.09 0900

Received By / Company Name: [Signature] ALSI

Date: 4.7.09 0900

Received By / Company Name: [Signature] ALSI

Date: 4.7.09 0900

Received By / Company Name: [Signature] ALSI

Date: 4.7.09 0900

Received By / Company Name: [Signature] ALSI

Receipt Information Lab Order No. [Blank] Method [Blank] Cooler Temp: 3 Thermo ID: S1023359 No. of Coolers: [Blank] Notes: [Blank]	Correct containers? [X] Correct sample volumes? [X] Received on ice? [X] CO/Labels complete/accurate? [X] Container in good condition? [X]	ALSI FIELD SERVICES <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Compatible Sampling <input type="checkbox"/> Special Equipment <input type="checkbox"/> Other: [Blank]
ANALYSIS METHOD REQUESTED [Blank]	Enter Number of Containers Per Analysis [Blank]	Data Deliverables <input checked="" type="checkbox"/> Standard <input type="checkbox"/> CLP-File <input type="checkbox"/> NI-Serialized <input type="checkbox"/> NI-Full <input type="checkbox"/> Other: [Blank]
Scale Samples Delivered at <input type="checkbox"/> MO <input type="checkbox"/> NJ <input type="checkbox"/> NY <input checked="" type="checkbox"/> PA	8000 Containers Required? 100	EDS Required? [Blank]

Rev. 6/07



ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Page 3 of 3
Counter: FED EX
Tracking #: 3699 888 6 7140

97889433

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: Pennsylvania Technics, Incorporated Phone: 570.487.859
Contact (Project): Marvin Gibbillion
Address: 826 MAIN STREET
Peckville PA 18452

Bill to (if different than Project to):
PO#: 27058

Project Name/ID: Lewis Brothers Property ALSI Quote #:
TAT: Normal-Standard TAT is 15-12 business days. Date Required:
 Rush-Subject to ALSI approval and surcharges. Approved By:

Email? Y N patrick@ptechnics.com
Fax? Y N No. 570.487.1961

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	Enter Number of Containers Per Analysis
1 058.0406.5w1		4.6.09	0716	6 SW 2
2 058.0406.5w2		4.6.09	0729	6 SW 2
3 058.0406.5w3		4.6.09	0736	6 SW 2
4				
5				
6				
7				
8				

SAMPLED BY (Please Print):		LOGGED BY (Signature):	
Kevin Lucora		<i>[Signature]</i>	
Relinquished By / Company Name		Received By / Company Name	
Date		Date	
1 4.7.09	0700	2 4.7.09	0700
3		4	
5		6	
7		8	
9		10	

ANALYSES/METHODS REQUESTED

Container Type: CG
Container Size: 4mL
Preservative: HCl

Matrix: Unaged Ground Coal
(Paper Match 18, Coal L/S)

Receipt Information:
Received by: [Signature]
Cooler Temp: 30
Therm. ID: 51023569
No. of Coolers: _____
Notes: _____

Correct containers?	<input checked="" type="checkbox"/>	Correct sample volume?	<input checked="" type="checkbox"/>	Correct preservation?	<input checked="" type="checkbox"/>	Headspace/Voluntar?	<input checked="" type="checkbox"/>	Container in good condition?	<input checked="" type="checkbox"/>
Custody seals Present?	<input checked="" type="checkbox"/>	(if present) Seals intact?	<input checked="" type="checkbox"/>	Rechecked on lot?	<input checked="" type="checkbox"/>	COC Labels completed/accurate?	<input checked="" type="checkbox"/>	Container in good condition?	<input checked="" type="checkbox"/>

ALSO FIELD SERVICES:
 Policy
 Labor
 Composite Sampling
 Rental Equipment
 Other: _____

SRM: _____
 Form No. _____
 Standard
 CLP-80
 NJ-Reduced
 NJ-FU
 Other: _____

SRM Collected in:
 MD
 NJ
 NY
 PA
 Other: _____

Data Deliverables:
 Standard
 CLP-80
 NJ-Reduced
 NJ-FU
 Other: _____

ESLs Required? N/A
 0000 Criteria Required? N/A

Groundwater Sampling Analytical Data Sheets

March 9, 2010



Certificate of Analysis

Project Name: **27058**

Workorder: **9835157**

Purchase Order:

Workorder ID: **27058**

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

March 29, 2010

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Friday, March 12, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9835157 27058

Discard Date: 04/12/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9835157001	0528-0308-MW2S	Water	3/8/10 14:59	3/12/10 19:06	Customer
9835157002	0528-0308-MW3S	Water	3/8/10 14:28	3/12/10 19:06	Customer
9835157003	0528-0308-OW1	Water	3/8/10 12:42	3/12/10 19:06	Customer
9835157004	0528-0308-OW4	Water	3/8/10 11:40	3/12/10 19:06	Customer
9835157005	0528-0308-SW1	Water	3/8/10 08:45	3/12/10 19:06	Customer
9835157006	0528-0308-SW2	Water	3/8/10 08:51	3/12/10 19:06	Customer
9835157007	0528-0308-SW3	Water	3/8/10 08:56	3/12/10 19:06	Customer
9835157008	0528-0308-MW1S	Water	3/9/10 15:49	3/12/10 19:06	Customer
9835157009	0528-0308-MW4s	Water	3/9/10 18:17	3/12/10 19:06	Customer
9835157010	0528-0308-MW5S	Water	3/9/10 13:52	3/12/10 19:06	Customer
9835157011	0528-0308-MW6S	Water	3/9/10 11:11	3/12/10 19:06	Customer
9835157012	0528-0308-MW1D	Water	3/9/10 14:54	3/12/10 19:06	Customer
9835157013	0528-0308-MW2D	Water	3/9/10 17:37	3/12/10 19:06	Customer
9835157014	0528-0308-MW6D	Water	3/9/10 12:24	3/12/10 19:06	Customer
9835157015	0528-0308-MW7D	Water	3/9/10 15:01	3/12/10 19:06	Customer
9835157016	0528-0308-FB1	Water	3/9/10 18:14	3/12/10 19:06	Customer

Workorder Comments:

This report was reissued to attach the COC. TMH 3/29/10

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157001
Sample ID: 0528-0308-MW2S

Date Collected: 3/8/2010 14:59
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	11100		ug/L	250	SW846 8260B		3/17/10 06:29	DD	B
Ethylbenzene	4260		ug/L	250	SW846 8260B		3/17/10 06:29	DD	B
Isopropylbenzene	575		ug/L	5.0	SW846 8260B		3/16/10 16:27	MES	A
Methyl t-Butyl Ether	3050		ug/L	250	SW846 8260B		3/17/10 06:29	DD	B
Naphthalene	3160		ug/L	500	SW846 8260B		3/17/10 06:29	DD	B
Toluene	24800		ug/L	250	SW846 8260B		3/17/10 06:29	DD	B
Total Xylenes	22700		ug/L	750	SW846 8260B		3/17/10 06:29	DD	B
1,2,4-Trimethylbenzene	6760		ug/L	250	SW846 8260B		3/17/10 06:29	DD	B
1,3,5-Trimethylbenzene	1640		ug/L	250	SW846 8260B		3/17/10 06:29	DD	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.7		%	62-133	SW846 8260B		3/16/10 16:27	MES	A
4-Bromofluorobenzene (S)	86.3		%	79-114	SW846 8260B		3/16/10 16:27	MES	A
Toluene-d8 (S)	98.1		%	76-127	SW846 8260B		3/16/10 16:27	MES	A
Dibromofluoromethane (S)	68.7	1	%	78-116	SW846 8260B		3/16/10 16:27	MES	A
1,2-Dichloroethane-d4 (S)	98.2		%	62-133	SW846 8260B		3/17/10 06:29	DD	B
4-Bromofluorobenzene (S)	90.7		%	79-114	SW846 8260B		3/17/10 06:29	DD	B
Dibromofluoromethane (S)	97		%	78-116	SW846 8260B		3/17/10 06:29	DD	B
Toluene-d8 (S)	94.3		%	76-127	SW846 8260B		3/17/10 06:29	DD	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157002 Date Collected: 3/8/2010 14:28 Matrix: Water
Sample ID: 0528-0308-MW3S Date Received: 3/12/2010 19:06

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	8500		ug/L	100	SW846 8260B		3/17/10 08:09	DD	B
Ethylbenzene	4250		ug/L	100	SW846 8260B		3/17/10 08:09	DD	B
Isopropylbenzene	200		ug/L	5.0	SW846 8260B		3/16/10 15:54	MES	A
Methyl t-Butyl Ether	905		ug/L	5.0	SW846 8260B		3/16/10 15:54	MES	A
Naphthalene	874		ug/L	10.0	SW846 8260B		3/16/10 15:54	MES	A
Toluene	19600		ug/L	100	SW846 8260B		3/17/10 08:09	DD	B
Total Xylenes	23500		ug/L	300	SW846 8260B		3/17/10 08:09	DD	B
1,2,4-Trimethylbenzene	11400		ug/L	100	SW846 8260B		3/17/10 08:09	DD	B
1,3,5-Trimethylbenzene	817		ug/L	5.0	SW846 8260B		3/16/10 15:54	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.9		%	62-133	SW846 8260B		3/16/10 15:54	MES	A
4-Bromofluorobenzene (S)	88.9		%	79-114	SW846 8260B		3/16/10 15:54	MES	A
Toluene-d8 (S)	94.2		%	76-127	SW846 8260B		3/16/10 15:54	MES	A
Dibromofluoromethane (S)	75.2	2	%	78-116	SW846 8260B		3/16/10 15:54	MES	A
1,2-Dichloroethane-d4 (S)	94.9		%	62-133	SW846 8260B		3/17/10 08:09	DD	B
4-Bromofluorobenzene (S)	94.3		%	79-114	SW846 8260B		3/17/10 08:09	DD	B
Toluene-d8 (S)	94.8		%	76-127	SW846 8260B		3/17/10 08:09	DD	B
Dibromofluoromethane (S)	92.5		%	78-116	SW846 8260B		3/17/10 08:09	DD	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157003
Sample ID: 0528-0308-OW1

Date Collected: 3/8/2010 12:42
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	19.7		ug/L	1.0	SW846 8260B		3/16/10 12:34	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 12:34	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 12:34	MES	A
Methyl t-Butyl Ether	7.1		ug/L	1.0	SW846 8260B		3/16/10 12:34	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/16/10 12:34	MES	A
Toluene	12.8		ug/L	1.0	SW846 8260B		3/16/10 12:34	MES	A
Total Xylenes	17.0		ug/L	3.0	SW846 8260B		3/16/10 12:34	MES	A
1,2,4-Trimethylbenzene	1.3		ug/L	1.0	SW846 8260B		3/16/10 12:34	MES	A
1,3,5-Trimethylbenzene	1.4		ug/L	1.0	SW846 8260B		3/16/10 12:34	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.9		%	62-133	SW846 8260B		3/16/10 12:34	MES	A
4-Bromofluorobenzene (S)	89.2		%	79-114	SW846 8260B		3/16/10 12:34	MES	A
Dibromofluoromethane (S)	90.2		%	78-116	SW846 8260B		3/16/10 12:34	MES	A
Toluene-d8 (S)	88.1		%	76-127	SW846 8260B		3/16/10 12:34	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157004
Sample ID: 0528-0308-OW4

Date Collected: 3/8/2010 11:40
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:07	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:07	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:07	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		3/16/10 13:07	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/16/10 13:07	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:07	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/16/10 13:07	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:07	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:07	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B		3/16/10 13:07	MES	A
4-Bromofluorobenzene (S)	97		%	79-114	SW846 8260B		3/16/10 13:07	MES	A
Dibromofluoromethane (S)	94.5		%	78-116	SW846 8260B		3/16/10 13:07	MES	A
Toluene-d8 (S)	90.1		%	76-127	SW846 8260B		3/16/10 13:07	MES	A

Sample Comments:

A positive residual chlorine result was detected in the preservation check for the volatile organics analysis of this sample. This may be due to the presence of residual chlorine or another oxidizing agent.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157005
Sample ID: 0528-0308-SW1

Date Collected: 3/8/2010 08:45
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:41	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:41	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:41	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		3/16/10 13:41	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/16/10 13:41	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:41	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/16/10 13:41	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:41	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 13:41	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		3/16/10 13:41	MES	A
4-Bromofluorobenzene (S)	88.4		%	79-114	SW846 8260B		3/16/10 13:41	MES	A
Dibromofluoromethane (S)	91.4		%	78-116	SW846 8260B		3/16/10 13:41	MES	A
Toluene-d8 (S)	87.5		%	76-127	SW846 8260B		3/16/10 13:41	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157006
Sample ID: 0528-0308-SW2

Date Collected: 3/8/2010 08:51
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/16/10 19:57	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 19:57	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 19:57	ECR	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		3/16/10 19:57	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/16/10 19:57	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/16/10 19:57	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/16/10 19:57	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 19:57	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 19:57	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.9		%	62-133	SW846 8260B		3/16/10 19:57	ECR	A
4-Bromofluorobenzene (S)	87.1		%	79-114	SW846 8260B		3/16/10 19:57	ECR	A
Dibromofluoromethane (S)	92.7		%	78-116	SW846 8260B		3/16/10 19:57	ECR	A
Toluene-d8 (S)	102		%	76-127	SW846 8260B		3/16/10 19:57	ECR	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157007
Sample ID: 0528-0308-SW3

Date Collected: 3/8/2010 08:56
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/16/10 20:30	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 20:30	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 20:30	ECR	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		3/16/10 20:30	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/16/10 20:30	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/16/10 20:30	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/16/10 20:30	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 20:30	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/16/10 20:30	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B		3/16/10 20:30	ECR	A
4-Bromofluorobenzene (S)	88.4		%	79-114	SW846 8260B		3/16/10 20:30	ECR	A
Dibromofluoromethane (S)	86.6		%	78-116	SW846 8260B		3/16/10 20:30	ECR	A
Toluene-d8 (S)	94		%	76-127	SW846 8260B		3/16/10 20:30	ECR	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157008
Sample ID: 0528-0308-MW1S

Date Collected: 3/9/2010 15:49
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/18/10 06:54	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 06:54	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 06:54	MES	A
Methyl t-Butyl Ether	21.0		ug/L	1.0	SW846 8260B		3/18/10 06:54	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/18/10 06:54	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/18/10 06:54	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/18/10 06:54	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 06:54	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 06:54	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		3/18/10 06:54	MES	A
4-Bromofluorobenzene (S)	86.3		%	79-114	SW846 8260B		3/18/10 06:54	MES	A
Dibromofluoromethane (S)	92.3		%	78-116	SW846 8260B		3/18/10 06:54	MES	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		3/18/10 06:54	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157009
Sample ID: 0528-0308-MW4s

Date Collected: 3/9/2010 18:17
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	322		ug/L	10.0	SW846 8260B		3/19/10 05:59	MES	B
Ethylbenzene	680		ug/L	10.0	SW846 8260B		3/19/10 05:59	MES	B
Isopropylbenzene	74.9		ug/L	1.0	SW846 8260B		3/18/10 09:39	MES	A
Methyl t-Butyl Ether	93.7		ug/L	1.0	SW846 8260B		3/18/10 09:39	MES	A
Naphthalene	79.7		ug/L	2.0	SW846 8260B		3/18/10 09:39	MES	A
Toluene	109		ug/L	1.0	SW846 8260B		3/18/10 09:39	MES	A
Total Xylenes	565		ug/L	30.0	SW846 8260B		3/19/10 05:59	MES	B
1,2,4-Trimethylbenzene	447		ug/L	10.0	SW846 8260B		3/19/10 05:59	MES	B
1,3,5-Trimethylbenzene	28.7		ug/L	1.0	SW846 8260B		3/18/10 09:39	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.8		%	62-133	SW846 8260B		3/18/10 09:39	MES	A
Toluene-d8 (S)	100		%	76-127	SW846 8260B		3/18/10 09:39	MES	A
Dibromofluoromethane (S)	89.2		%	78-116	SW846 8260B		3/18/10 09:39	MES	A
4-Bromofluorobenzene (S)	86.9		%	79-114	SW846 8260B		3/18/10 09:39	MES	A
1,2-Dichloroethane-d4 (S)	102		%	62-133	SW846 8260B		3/19/10 05:59	MES	B
4-Bromofluorobenzene (S)	85.8		%	79-114	SW846 8260B		3/19/10 05:59	MES	B
Dibromofluoromethane (S)	91.6		%	78-116	SW846 8260B		3/19/10 05:59	MES	B
Toluene-d8 (S)	98.8		%	76-127	SW846 8260B		3/19/10 05:59	MES	B

Sample Comments:

Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157010
Sample ID: 0528-0308-MW5S

Date Collected: 3/9/2010 13:52
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/18/10 07:27	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 07:27	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 07:27	MES	A
Methyl t-Butyl Ether	1.1		ug/L	1.0	SW846 8260B		3/18/10 07:27	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/18/10 07:27	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/18/10 07:27	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/18/10 07:27	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 07:27	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 07:27	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		3/18/10 07:27	MES	A
4-Bromofluorobenzene (S)	85.3		%	79-114	SW846 8260B		3/18/10 07:27	MES	A
Dibromofluoromethane (S)	89		%	78-116	SW846 8260B		3/18/10 07:27	MES	A
Toluene-d8 (S)	100		%	76-127	SW846 8260B		3/18/10 07:27	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157011
Sample ID: 0528-0308-MW6S

Date Collected: 3/9/2010 11:11
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/17/10 16:45	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/17/10 16:45	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/17/10 16:45	ECR	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		3/17/10 16:45	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/17/10 16:45	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/17/10 16:45	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/17/10 16:45	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/17/10 16:45	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/17/10 16:45	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62-133	SW846 8260B		3/17/10 16:45	ECR	A
4-Bromofluorobenzene (S)	81.6		%	79-114	SW846 8260B		3/17/10 16:45	ECR	A
Dibromofluoromethane (S)	90		%	78-116	SW846 8260B		3/17/10 16:45	ECR	A
Toluene-d8 (S)	97.2		%	76-127	SW846 8260B		3/17/10 16:45	ECR	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157012
Sample ID: 0528-0308-MW1D

Date Collected: 3/9/2010 14:54
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:01	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:01	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:01	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		3/18/10 08:01	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/18/10 08:01	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:01	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/18/10 08:01	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:01	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:01	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62-133	SW846 8260B		3/18/10 08:01	MES	A
4-Bromofluorobenzene (S)	88.7		%	79-114	SW846 8260B		3/18/10 08:01	MES	A
Dibromofluoromethane (S)	93.6		%	78-116	SW846 8260B		3/18/10 08:01	MES	A
Toluene-d8 (S)	97.4		%	76-127	SW846 8260B		3/18/10 08:01	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157013
Sample ID: 0528-0308-MW2D

Date Collected: 3/9/2010 17:37
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	16.7		ug/L	1.0	SW846 8260B		3/18/10 09:06	MES	A
Ethylbenzene	8.9		ug/L	1.0	SW846 8260B		3/18/10 09:06	MES	A
Isopropylbenzene	10.7		ug/L	1.0	SW846 8260B		3/18/10 09:06	MES	A
Methyl t-Butyl Ether	18.1		ug/L	1.0	SW846 8260B		3/18/10 09:06	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/18/10 09:06	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/18/10 09:06	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/18/10 09:06	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 09:06	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 09:06	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62-133	SW846 8260B		3/18/10 09:06	MES	A
4-Bromofluorobenzene (S)	87.7		%	79-114	SW846 8260B		3/18/10 09:06	MES	A
Dibromofluoromethane (S)	87.7		%	78-116	SW846 8260B		3/18/10 09:06	MES	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		3/18/10 09:06	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157014
Sample ID: 0528-0308-MW6D

Date Collected: 3/9/2010 12:24
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/17/10 17:18	ECR	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/17/10 17:18	ECR	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/17/10 17:18	ECR	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		3/17/10 17:18	ECR	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/17/10 17:18	ECR	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/17/10 17:18	ECR	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/17/10 17:18	ECR	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/17/10 17:18	ECR	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/17/10 17:18	ECR	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62-133	SW846 8260B		3/17/10 17:18	ECR	A
4-Bromofluorobenzene (S)	86.6		%	79-114	SW846 8260B		3/17/10 17:18	ECR	A
Dibromofluoromethane (S)	90.6		%	78-116	SW846 8260B		3/17/10 17:18	ECR	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		3/17/10 17:18	ECR	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157015
Sample ID: 0528-0308-MW7D

Date Collected: 3/9/2010 15:01
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	6.2		ug/L	1.0	SW846 8260B		3/18/10 08:33	MES	A
Ethylbenzene	1.1		ug/L	1.0	SW846 8260B		3/18/10 08:33	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:33	MES	A
Methyl t-Butyl Ether	47.4		ug/L	1.0	SW846 8260B		3/18/10 08:33	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/18/10 08:33	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:33	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/18/10 08:33	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:33	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 08:33	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62-133	SW846 8260B		3/18/10 08:33	MES	A
4-Bromofluorobenzene (S)	88.5		%	79-114	SW846 8260B		3/18/10 08:33	MES	A
Dibromofluoromethane (S)	86.3		%	78-116	SW846 8260B		3/18/10 08:33	MES	A
Toluene-d8 (S)	99.3		%	76-127	SW846 8260B		3/18/10 08:33	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9835157 27058

Lab ID: 9835157016
Sample ID: 0528-0308-FB1

Date Collected: 3/9/2010 18:14
Date Received: 3/12/2010 19:06

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		3/18/10 03:34	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 03:34	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 03:34	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		3/18/10 03:34	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		3/18/10 03:34	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		3/18/10 03:34	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		3/18/10 03:34	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 03:34	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		3/18/10 03:34	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		3/18/10 03:34	MES	A
4-Bromofluorobenzene (S)	83.4		%	79-114	SW846 8260B		3/18/10 03:34	MES	A
Dibromofluoromethane (S)	91		%	78-116	SW846 8260B		3/18/10 03:34	MES	A
Toluene-d8 (S)	99.5		%	76-127	SW846 8260B		3/18/10 03:34	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9835157 27058

PARAMETER QUALIFIERS\FLAGS

- [1] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 68.7 and the control limits were 78 to 116. This result was reported at a dilution of 5.
- [2] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 75.2 and the control limits were 78 to 116. This result was reported at a dilution of 5.



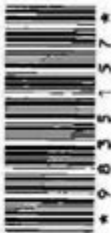
ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430



Page 1 of 2
Certificate Tracking #: _____

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: **PENNSYLVANIA TECTONICS, INC**
 Contact (request): **MARTIN GILGALLON** Phone: **487-1959**
 Address: **826 MAIN STREET**
PREVILKE PA 18452

Container Type: **CG**
 Container Size: **40ml**
 Preservative: **HCL**

Receipt (Permitted) (continued on back)
 by: **[Signature]**
 Cooker Temp: **2**
 Term. ID: **10122224**

No. of Coolers: _____
 Notes: _____

ANALYSIS METHOD REQUESTED

Sample Description/Location	Sample Date	Military Time	Container Type	Container Size	Preservative	Enter Number of Containers Per Analysis
1 058 0308 MW25	38 10 1459	6:54	CG	40ml	HCL	2
2 058 0308 MW35	38 10 1428	6:28	CG	40ml	HCL	2
3 058 0308 OW1	38 10 1212	6:12	CG	40ml	HCL	2
4 058 0308 OW4	38 10 1140	6:40	CG	40ml	HCL	2
5 058 0308 SW1	38 10 0845	6:45	CG	40ml	HCL	2
6 058 0308 SW2	38 10 0851	6:51	CG	40ml	HCL	2
7 058 0308 SW3	38 10 0830	6:30	CG	40ml	HCL	2
8 058 0308 MW15	38 10 1549	6:49	CG	40ml	HCL	2

Project Name#: **Lewis Brothers/2705BALS1 Quote #:**
 TAT: Items-Standard TAT is 10-12 business days. Data Reported:
 Risk-Subject to ALS approval and surcharge. Approved By:
 Email#: **l.patectonics@hotmail.com**

LOGGED BY (signature): **[Signature]** Date: **3/10/10** Time: **16:49**

REVIEWED BY (signature): **[Signature]** Date: **3/10/10** Time: **16:49**

Date	Time	Received By / Company Name
3/12/10	0630	2 [Signature]
3/12/10	0845	4 [Signature]
3/12/10	0714	6 [Signature]
3/12/10	0906	8 [Signature]
3/12/10	0906	10 [Signature]

Bill to (if other than Report to): _____ PO#: _____

Correct containers? Correct sample volume? Correct preservation? Headspace/Volting? Container in good condition?

COC (Chain of Custody) completed/rechecked? Received on lot? (if person) Seals intact? Custody seals present?

ALS FIELD SERVICES: Photo Labor Composite Sampling Partial Equipment Other

SWM Form 350: Standard CLP-like NI-Reduced NI-Full Other

SWM Form 350 Collected by: NO NI NI PA

2000 Credits Required? **NO**

Capex: WHITE - ORIGINAL, CAMRY - CUSTOMER COPY
 *G-Grab, C-Composites
 **Metric: A=Air; D=Drinking Water; GW=Groundwater; DM=Dr. CL=Other; L=Liquid; S=Soil; W=Waste
 ***Container Type: AG=Amber Glass; CG=Clear Glass; PL=Plastic. Container Size: 250ml, 500ml, 1L, 2L, etc. Preservative: HCL, HNO3, NaOH, etc.
 Form 507

Groundwater Sampling Analytical Data Sheets

August 2, 3 & 4, 2010



Certificate of Analysis

Project Name:	LEWIS BROTHERS - PA SITE	Workorder:	9858595
Purchase Order:	27058	Workorder ID:	LEWIS BROTHERS - PA SITE

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

August 18, 2010

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Thursday, August 05, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Discard Date: 09/01/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9858595001	058-0802-MW1S	Ground Water	8/3/10 13:50	8/5/10 09:15	Customer
9858595002	058-0802-MW2S	Ground Water	8/2/10 08:40	8/5/10 09:15	Customer
9858595003	058-0802-MW3S	Ground Water	8/2/10 09:01	8/5/10 09:15	Customer
9858595004	058-0802-MW4S	Ground Water	8/4/10 08:52	8/5/10 09:15	Customer
9858595005	058-0802-MW5S	Ground Water	8/3/10 15:06	8/5/10 09:15	Customer
9858595006	058-0802-MW6S	Ground Water	8/3/10 12:42	8/5/10 09:15	Customer
9858595007	058-0802-MW7S	Ground Water	8/4/10 09:45	8/5/10 09:15	Customer
9858595008	058-0802-MW8S	Ground Water	8/2/10 08:30	8/5/10 09:15	Customer
9858595009	058-0802-MW9S	Ground Water	8/2/10 10:30	8/5/10 09:15	Customer
9858595010	058-0802-MW10S	Ground Water	8/4/10 11:01	8/5/10 09:15	Customer
9858595011	058-0802-MW11S	Ground Water	8/4/10 11:45	8/5/10 09:15	Customer
9858595012	058-0802-MW12S	Ground Water	8/2/10 10:40	8/5/10 09:15	Customer
9858595013	058-0802-MW13S	Ground Water	8/2/10 16:18	8/5/10 09:15	Customer
9858595014	058-0802-MW1d	Ground Water	8/3/10 15:25	8/5/10 09:15	Customer
9858595015	058-0802-MW2d	Ground Water	8/3/10 11:20	8/5/10 09:15	Customer
9858595016	058-0802-MW6d	Ground Water	8/3/10 11:31	8/5/10 09:15	Customer
9858595017	058-0802-MW7d	Ground Water	8/3/10 15:30	8/5/10 09:15	Customer
9858595018	058-0802-MW8d	Ground Water	8/2/10 07:53	8/5/10 09:15	Customer
9858595019	058-0802-MW9d	Ground Water	8/2/10 09:19	8/5/10 09:15	Customer
9858595020	058-0802-MW10d	Ground Water	8/2/10 11:42	8/5/10 09:15	Customer
9858595021	058-0802-MW11d	Ground Water	8/2/10 12:58	8/5/10 09:15	Customer
9858595022	058-0802-MW12d	Ground Water	8/2/10 14:00	8/5/10 09:15	Customer
9858595023	058-0802-MW13d	Ground Water	8/2/10 16:01	8/5/10 09:15	Customer
9858595024	058-0802-DW-4	Ground Water	8/2/10 09:20	8/5/10 09:15	Customer
9858595025	058-0802-FB1	Ground Water	8/2/10 16:20	8/5/10 09:15	Customer
9858595026	058-0802-FB2	Ground Water	8/3/10 15:40	8/5/10 09:15	Customer
9858595027	058-0802-FB3	Ground Water	8/4/10 12:00	8/5/10 09:15	Customer
9858595028	Trip Blank	Ground Water	8/5/10 09:15	8/5/10 09:15	Customer

Workorder Comments:



SAMPLE SUMMARY

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Discard Date: 09/01/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
--------	-----------	--------	----------------	---------------	--------------

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595001
Sample ID: 058-0802-MW1S

Date Collected: 8/3/2010 13:50
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:08	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:08	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:08	JAH	A
Methyl t-Butyl Ether	7.7		ug/L	1.0	SW846 8260B		8/13/10 11:08	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/13/10 11:08	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:08	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/13/10 11:08	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:08	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:08	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	76.9		%	62-133	SW846 8260B		8/13/10 11:08	JAH	A
4-Bromofluorobenzene (S)	113		%	79-114	SW846 8260B		8/13/10 11:08	JAH	A
Dibromofluoromethane (S)	87.7		%	78-116	SW846 8260B		8/13/10 11:08	JAH	A
Toluene-d8 (S)	97.9		%	76-127	SW846 8260B		8/13/10 11:08	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595002 Date Collected: 8/2/2010 08:40 Matrix: Ground Water
Sample ID: 058-0802-MW2S Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	7180		ug/L	50.0	SW846 8260B		8/11/10 02:29	DJB	A
Ethylbenzene	6910		ug/L	50.0	SW846 8260B		8/11/10 02:29	DJB	A
Isopropylbenzene	436		ug/L	50.0	SW846 8260B		8/11/10 02:29	DJB	A
Methyl t-Butyl Ether	1970		ug/L	50.0	SW846 8260B		8/11/10 02:29	DJB	A
Naphthalene	2480		ug/L	100	SW846 8260B		8/11/10 02:29	DJB	A
Toluene	28400		ug/L	500	SW846 8260B		8/11/10 22:34	DD	B
Total Xylenes	27700		ug/L	1500	SW846 8260B		8/11/10 22:34	DD	B
1,2,4-Trimethylbenzene	9810		ug/L	50.0	SW846 8260B		8/11/10 02:29	DJB	A
1,3,5-Trimethylbenzene	2810		ug/L	50.0	SW846 8260B		8/11/10 02:29	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62-133	SW846 8260B		8/11/10 02:29	DJB	A
4-Bromofluorobenzene (S)	95.4		%	79-114	SW846 8260B		8/11/10 02:29	DJB	A
Dibromofluoromethane (S)	102		%	78-116	SW846 8260B		8/11/10 02:29	DJB	A
Toluene-d8 (S)	121		%	76-127	SW846 8260B		8/11/10 02:29	DJB	A
1,2-Dichloroethane-d4 (S)	78.8		%	62-133	SW846 8260B		8/11/10 22:34	DD	B
4-Bromofluorobenzene (S)	95		%	79-114	SW846 8260B		8/11/10 22:34	DD	B
Toluene-d8 (S)	96.3		%	76-127	SW846 8260B		8/11/10 22:34	DD	B
Dibromofluoromethane (S)	79.2		%	78-116	SW846 8260B		8/11/10 22:34	DD	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595003
Sample ID: 058-0802-MW3S

Date Collected: 8/2/2010 09:01
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	6210		ug/L	50.0	SW846 8260B		8/11/10 03:02	DJB	A
Ethylbenzene	3320		ug/L	50.0	SW846 8260B		8/11/10 03:02	DJB	A
Isopropylbenzene	225		ug/L	50.0	SW846 8260B		8/11/10 03:02	DJB	A
Methyl t-Butyl Ether	831		ug/L	50.0	SW846 8260B		8/11/10 03:02	DJB	A
Naphthalene	1120		ug/L	100	SW846 8260B		8/11/10 03:02	DJB	A
Toluene	21400		ug/L	250	SW846 8260B		8/11/10 18:38	DD	B
Total Xylenes	19300		ug/L	150	SW846 8260B		8/11/10 03:02	DJB	A
1,2,4-Trimethylbenzene	4640		ug/L	50.0	SW846 8260B		8/11/10 03:02	DJB	A
1,3,5-Trimethylbenzene	1230		ug/L	50.0	SW846 8260B		8/11/10 03:02	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		8/11/10 03:02	DJB	A
4-Bromofluorobenzene (S)	102		%	79-114	SW846 8260B		8/11/10 03:02	DJB	A
Dibromofluoromethane (S)	106		%	78-116	SW846 8260B		8/11/10 03:02	DJB	A
Toluene-d8 (S)	120		%	76-127	SW846 8260B		8/11/10 03:02	DJB	A
1,2-Dichloroethane-d4 (S)	80		%	62-133	SW846 8260B		8/11/10 18:38	DD	B
Dibromofluoromethane (S)	80.1		%	78-116	SW846 8260B		8/11/10 18:38	DD	B
Toluene-d8 (S)	86.1		%	76-127	SW846 8260B		8/11/10 18:38	DD	B
4-Bromofluorobenzene (S)	90.6		%	79-114	SW846 8260B		8/11/10 18:38	DD	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595004
Sample ID: 058-0802-MW4S

Date Collected: 8/4/2010 08:52
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	168		ug/L	5.0	SW846 8260B		8/13/10 12:36	JAH	A
Ethylbenzene	417		ug/L	5.0	SW846 8260B		8/13/10 12:36	JAH	A
Isopropylbenzene	55.9		ug/L	5.0	SW846 8260B		8/13/10 12:36	JAH	A
Methyl t-Butyl Ether	33.4		ug/L	5.0	SW846 8260B		8/13/10 12:36	JAH	A
Naphthalene	22.4		ug/L	10.0	SW846 8260B		8/13/10 12:36	JAH	A
Toluene	39.8		ug/L	5.0	SW846 8260B		8/13/10 12:36	JAH	A
Total Xylenes	188		ug/L	15.0	SW846 8260B		8/13/10 12:36	JAH	A
1,2,4-Trimethylbenzene	203		ug/L	5.0	SW846 8260B		8/13/10 12:36	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B		8/13/10 12:36	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	75.1		%	62-133	SW846 8260B		8/13/10 12:36	JAH	A
4-Bromofluorobenzene (S)	110		%	79-114	SW846 8260B		8/13/10 12:36	JAH	A
Dibromofluoromethane (S)	83.5		%	78-116	SW846 8260B		8/13/10 12:36	JAH	A
Toluene-d8 (S)	95.3		%	76-127	SW846 8260B		8/13/10 12:36	JAH	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595005 Date Collected: 8/3/2010 15:06 Matrix: Ground Water
Sample ID: 058-0802-MW5S Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:38	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:38	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:38	JAH	A
Methyl t-Butyl Ether	3.3		ug/L	1.0	SW846 8260B		8/13/10 11:38	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/13/10 11:38	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:38	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/13/10 11:38	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:38	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 11:38	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	77.2		%	62-133	SW846 8260B		8/13/10 11:38	JAH	A
4-Bromofluorobenzene (S)	107		%	79-114	SW846 8260B		8/13/10 11:38	JAH	A
Dibromofluoromethane (S)	83.4		%	78-116	SW846 8260B		8/13/10 11:38	JAH	A
Toluene-d8 (S)	94.7		%	76-127	SW846 8260B		8/13/10 11:38	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595006 Date Collected: 8/3/2010 12:42 Matrix: Ground Water
Sample ID: 058-0802-MW6S Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/13/10 12:07	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 12:07	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 12:07	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/13/10 12:07	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/13/10 12:07	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/13/10 12:07	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/13/10 12:07	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 12:07	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 12:07	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	76.3		%	62-133	SW846 8260B		8/13/10 12:07	JAH	A
4-Bromofluorobenzene (S)	109		%	79-114	SW846 8260B		8/13/10 12:07	JAH	A
Dibromofluoromethane (S)	85.5		%	78-116	SW846 8260B		8/13/10 12:07	JAH	A
Toluene-d8 (S)	93.1		%	76-127	SW846 8260B		8/13/10 12:07	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595007
Sample ID: 058-0802-MW7S

Date Collected: 8/4/2010 09:45
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/13/10 13:05	JAH	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 13:05	JAH	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 13:05	JAH	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/13/10 13:05	JAH	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/13/10 13:05	JAH	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/13/10 13:05	JAH	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/13/10 13:05	JAH	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 13:05	JAH	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 13:05	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78		%	62-133	SW846 8260B		8/13/10 13:05	JAH	A
4-Bromofluorobenzene (S)	113		%	79-114	SW846 8260B		8/13/10 13:05	JAH	A
Dibromofluoromethane (S)	86.9		%	78-116	SW846 8260B		8/13/10 13:05	JAH	A
Toluene-d8 (S)	97.3		%	76-127	SW846 8260B		8/13/10 13:05	JAH	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595008 Date Collected: 8/2/2010 08:30 Matrix: Ground Water
Sample ID: 058-0802-MW8S Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:17	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:17	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:17	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/11/10 00:17	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/10 00:17	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:17	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/10 00:17	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:17	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:17	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	120		%	62-133	SW846 8260B		8/11/10 00:17	DJB	A
4-Bromofluorobenzene (S)	79		%	79-114	SW846 8260B		8/11/10 00:17	DJB	A
Dibromofluoromethane (S)	113		%	78-116	SW846 8260B		8/11/10 00:17	DJB	A
Toluene-d8 (S)	115		%	76-127	SW846 8260B		8/11/10 00:17	DJB	A

Sample Comments:

A positive residual chlorine result was detected in the preservation check for the volatile organics analysis of this sample. This may be due to the presence of residual chlorine or another oxidizing agent.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595009 Date Collected: 8/2/2010 10:30 Matrix: Ground Water
Sample ID: 058-0802-MW9S Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/10 21:28	DD	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 21:28	DD	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 21:28	DD	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/11/10 21:28	DD	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/10 21:28	DD	B
Toluene	ND		ug/L	1.0	SW846 8260B		8/11/10 21:28	DD	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/10 21:28	DD	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 21:28	DD	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 21:28	DD	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	74.3		%	62-133	SW846 8260B		8/11/10 21:28	DD	B
4-Bromofluorobenzene (S)	94.6		%	79-114	SW846 8260B		8/11/10 21:28	DD	B
Dibromofluoromethane (S)	79.4		%	78-116	SW846 8260B		8/11/10 21:28	DD	B
Toluene-d8 (S)	96.9		%	76-127	SW846 8260B		8/11/10 21:28	DD	B

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595010
Sample ID: 058-0802-MW10S

Date Collected: 8/4/2010 11:01
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	229		ug/L	5.0	SW846 8260B		8/16/10 22:55	DJB	B
Ethylbenzene	17.1		ug/L	1.0	SW846 8260B		8/13/10 13:35	JAH	A
Isopropylbenzene	18.4		ug/L	1.0	SW846 8260B		8/13/10 13:35	JAH	A
Methyl t-Butyl Ether	14.2		ug/L	1.0	SW846 8260B		8/13/10 13:35	JAH	A
Naphthalene	24.6		ug/L	2.0	SW846 8260B		8/13/10 13:35	JAH	A
Toluene	183		ug/L	1.0	SW846 8260B		8/13/10 13:35	JAH	A
Total Xylenes	719		ug/L	15.0	SW846 8260B		8/16/10 22:55	DJB	B
1,2,4-Trimethylbenzene	261		ug/L	5.0	SW846 8260B		8/16/10 22:55	DJB	B
1,3,5-Trimethylbenzene	127		ug/L	1.0	SW846 8260B		8/13/10 13:35	JAH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	76.2		%	62-133	SW846 8260B		8/13/10 13:35	JAH	A
Toluene-d8 (S)	95.2		%	76-127	SW846 8260B		8/13/10 13:35	JAH	A
Dibromofluoromethane (S)	83.5		%	78-116	SW846 8260B		8/13/10 13:35	JAH	A
4-Bromofluorobenzene (S)	112		%	79-114	SW846 8260B		8/13/10 13:35	JAH	A
1,2-Dichloroethane-d4 (S)	81.6		%	62-133	SW846 8260B		8/16/10 22:55	DJB	B
4-Bromofluorobenzene (S)	84.1		%	79-114	SW846 8260B		8/16/10 22:55	DJB	B
Dibromofluoromethane (S)	85.1		%	78-116	SW846 8260B		8/16/10 22:55	DJB	B
Toluene-d8 (S)	87.3		%	76-127	SW846 8260B		8/16/10 22:55	DJB	B

Sample Comments:

Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595011
Sample ID: 058-0802-MW11S

Date Collected: 8/4/2010 11:45
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	592		ug/L	10.0	SW846 8260B		8/16/10 21:34	DJB	B
Ethylbenzene	681		ug/L	10.0	SW846 8260B		8/16/10 21:34	DJB	B
Isopropylbenzene	71.2		ug/L	1.0	SW846 8260B		8/13/10 14:04	JAH	A
Methyl t-Butyl Ether	52.6		ug/L	1.0	SW846 8260B		8/13/10 14:04	JAH	A
Naphthalene	144		ug/L	2.0	SW846 8260B		8/13/10 14:04	JAH	A
Toluene	271		ug/L	10.0	SW846 8260B		8/16/10 21:34	DJB	B
Total Xylenes	2340		ug/L	30.0	SW846 8260B		8/16/10 21:34	DJB	B
1,2,4-Trimethylbenzene	717		ug/L	10.0	SW846 8260B		8/16/10 21:34	DJB	B
1,3,5-Trimethylbenzene	196		ug/L	10.0	SW846 8260B		8/16/10 21:34	DJB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.9		%	62-133	SW846 8260B		8/13/10 14:04	JAH	A
Dibromofluoromethane (S)	84		%	78-116	SW846 8260B		8/13/10 14:04	JAH	A
Toluene-d8 (S)	97.3		%	76-127	SW846 8260B		8/13/10 14:04	JAH	A
4-Bromofluorobenzene (S)	112		%	79-114	SW846 8260B		8/13/10 14:04	JAH	A
1,2-Dichloroethane-d4 (S)	82.4		%	62-133	SW846 8260B		8/16/10 21:34	DJB	B
Toluene-d8 (S)	90.5		%	76-127	SW846 8260B		8/16/10 21:34	DJB	B
4-Bromofluorobenzene (S)	84.6		%	79-114	SW846 8260B		8/16/10 21:34	DJB	B
Dibromofluoromethane (S)	83.8		%	78-116	SW846 8260B		8/16/10 21:34	DJB	B

Sample Comments:

Anna G. Milliken
Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595012 Date Collected: 8/2/2010 10:40 Matrix: Ground Water
Sample ID: 058-0802-MW12S Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	238		ug/L	5.0	SW846 8260B		8/11/10 23:08	DD	B
Ethylbenzene	16.3		ug/L	1.0	SW846 8260B		8/11/10 06:29	DJB	A
Isopropylbenzene	3.1		ug/L	1.0	SW846 8260B		8/11/10 06:29	DJB	A
Methyl t-Butyl Ether	88.9		ug/L	1.0	SW846 8260B		8/11/10 06:29	DJB	A
Naphthalene	4.4		ug/L	2.0	SW846 8260B		8/11/10 06:29	DJB	A
Toluene	6.7		ug/L	1.0	SW846 8260B		8/11/10 06:29	DJB	A
Total Xylenes	15.7		ug/L	3.0	SW846 8260B		8/11/10 06:29	DJB	A
1,2,4-Trimethylbenzene	3.6		ug/L	1.0	SW846 8260B		8/11/10 06:29	DJB	A
1,3,5-Trimethylbenzene	1.1		ug/L	1.0	SW846 8260B		8/11/10 06:29	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.5		%	62-133	SW846 8260B		8/11/10 06:29	DJB	A
Dibromofluoromethane (S)	81.2		%	78-116	SW846 8260B		8/11/10 06:29	DJB	A
Toluene-d8 (S)	92.9		%	76-127	SW846 8260B		8/11/10 06:29	DJB	A
4-Bromofluorobenzene (S)	85.4		%	79-114	SW846 8260B		8/11/10 06:29	DJB	A
1,2-Dichloroethane-d4 (S)	74.8		%	62-133	SW846 8260B		8/11/10 23:08	DD	B
4-Bromofluorobenzene (S)	94.7		%	79-114	SW846 8260B		8/11/10 23:08	DD	B
Toluene-d8 (S)	93.2		%	76-127	SW846 8260B		8/11/10 23:08	DD	B
Dibromofluoromethane (S)	80.6		%	78-116	SW846 8260B		8/11/10 23:08	DD	B

Sample Comments:

Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595013
Sample ID: 058-0802-MW13S

Date Collected: 8/2/2010 16:18
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/10 20:54	DD	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 20:54	DD	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 20:54	DD	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/11/10 20:54	DD	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/10 20:54	DD	B
Toluene	ND		ug/L	1.0	SW846 8260B		8/11/10 20:54	DD	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/10 20:54	DD	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 20:54	DD	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 20:54	DD	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78		%	62-133	SW846 8260B		8/11/10 20:54	DD	B
4-Bromofluorobenzene (S)	94		%	79-114	SW846 8260B		8/11/10 20:54	DD	B
Dibromofluoromethane (S)	85		%	78-116	SW846 8260B		8/11/10 20:54	DD	B
Toluene-d8 (S)	96.2		%	76-127	SW846 8260B		8/11/10 20:54	DD	B

Sample Comments:

A positive residual chlorine result was detected in the preservation check for the volatile organics analysis of this sample. This may be due to the presence of residual chlorine or another oxidizing agent.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595014 Date Collected: 8/3/2010 15:25 Matrix: Ground Water
Sample ID: 058-0802-MW1d Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/13/10 17:44	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 17:44	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 17:44	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/13/10 17:44	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/13/10 17:44	TMP	A
Toluene	2.4		ug/L	1.0	SW846 8260B		8/13/10 17:44	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/13/10 17:44	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 17:44	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 17:44	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	76.1		%	62-133	SW846 8260B		8/13/10 17:44	TMP	A
4-Bromofluorobenzene (S)	81.8		%	79-114	SW846 8260B		8/13/10 17:44	TMP	A
Dibromofluoromethane (S)	82.5		%	78-116	SW846 8260B		8/13/10 17:44	TMP	A
Toluene-d8 (S)	80.7		%	76-127	SW846 8260B		8/13/10 17:44	TMP	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595015
Sample ID: 058-0802-MW2d

Date Collected: 8/3/2010 11:20
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	4.5		ug/L	1.0	SW846 8260B		8/12/10 18:49	DJB	B
Ethylbenzene	15.9		ug/L	1.0	SW846 8260B		8/12/10 18:49	DJB	B
Isopropylbenzene	1.7		ug/L	1.0	SW846 8260B		8/12/10 18:49	DJB	B
Methyl t-Butyl Ether	12.4		ug/L	1.0	SW846 8260B		8/12/10 18:49	DJB	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/12/10 18:49	DJB	B
Toluene	2.2		ug/L	1.0	SW846 8260B		8/12/10 18:49	DJB	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/12/10 18:49	DJB	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 18:49	DJB	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 18:49	DJB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.7		%	62-133	SW846 8260B		8/12/10 18:49	DJB	B
4-Bromofluorobenzene (S)	88.4		%	79-114	SW846 8260B		8/12/10 18:49	DJB	B
Dibromofluoromethane (S)	86.2		%	78-116	SW846 8260B		8/12/10 18:49	DJB	B
Toluene-d8 (S)	88.3		%	76-127	SW846 8260B		8/12/10 18:49	DJB	B

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595016
Sample ID: 058-0802-MW6d

Date Collected: 8/3/2010 11:31
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/13/10 01:21	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 01:21	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 01:21	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/13/10 01:21	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/13/10 01:21	DJB	A
Toluene	1.2		ug/L	1.0	SW846 8260B		8/13/10 01:21	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/13/10 01:21	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 01:21	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 01:21	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.8		%	62-133	SW846 8260B		8/13/10 01:21	DJB	A
4-Bromofluorobenzene (S)	83.4		%	79-114	SW846 8260B		8/13/10 01:21	DJB	A
Dibromofluoromethane (S)	85.2		%	78-116	SW846 8260B		8/13/10 01:21	DJB	A
Toluene-d8 (S)	87		%	76-127	SW846 8260B		8/13/10 01:21	DJB	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595017 Date Collected: 8/3/2010 15:30 Matrix: Ground Water
Sample ID: 058-0802-MW7d Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	5.7		ug/L	5.0	SW846 8260B		8/13/10 18:12	TMP	A
Ethylbenzene	ND		ug/L	5.0	SW846 8260B		8/13/10 18:12	TMP	A
Isopropylbenzene	ND		ug/L	5.0	SW846 8260B		8/13/10 18:12	TMP	A
Methyl t-Butyl Ether	30.0		ug/L	5.0	SW846 8260B		8/13/10 18:12	TMP	A
Naphthalene	ND		ug/L	10.0	SW846 8260B		8/13/10 18:12	TMP	A
Toluene	ND		ug/L	5.0	SW846 8260B		8/13/10 18:12	TMP	A
Total Xylenes	ND		ug/L	15.0	SW846 8260B		8/13/10 18:12	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B		8/13/10 18:12	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B		8/13/10 18:12	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	76.1		%	62-133	SW846 8260B		8/13/10 18:12	TMP	A
4-Bromofluorobenzene (S)	90.9		%	79-114	SW846 8260B		8/13/10 18:12	TMP	A
Dibromofluoromethane (S)	81.3		%	78-116	SW846 8260B		8/13/10 18:12	TMP	A
Toluene-d8 (S)	80.9		%	76-127	SW846 8260B		8/13/10 18:12	TMP	A

Sample Comments:

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by matrix.

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595018
Sample ID: 058-0802-MW8d

Date Collected: 8/2/2010 07:53
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:40	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:40	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:40	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/11/10 14:40	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/10 14:40	TMP	B
Toluene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:40	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/10 14:40	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:40	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:40	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81.6		%	62-133	SW846 8260B		8/11/10 14:40	TMP	B
4-Bromofluorobenzene (S)	81.7		%	79-114	SW846 8260B		8/11/10 14:40	TMP	B
Dibromofluoromethane (S)	88.1		%	78-116	SW846 8260B		8/11/10 14:40	TMP	B
Toluene-d8 (S)	89.8		%	76-127	SW846 8260B		8/11/10 14:40	TMP	B

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595019 Date Collected: 8/2/2010 09:19 Matrix: Ground Water
Sample ID: 058-0802-MW9d Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:50	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:50	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:50	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/11/10 00:50	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/10 00:50	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:50	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/10 00:50	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:50	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 00:50	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	115		%	62-133	SW846 8260B		8/11/10 00:50	DJB	A
4-Bromofluorobenzene (S)	82.6		%	79-114	SW846 8260B		8/11/10 00:50	DJB	A
Dibromofluoromethane (S)	113		%	78-116	SW846 8260B		8/11/10 00:50	DJB	A
Toluene-d8 (S)	113		%	76-127	SW846 8260B		8/11/10 00:50	DJB	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595020
Sample ID: 058-0802-MW10d

Date Collected: 8/2/2010 11:42
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/10 05:34	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 05:34	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 05:34	DJB	A
Methyl t-Butyl Ether	1.4		ug/L	1.0	SW846 8260B		8/11/10 05:34	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/10 05:34	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/11/10 05:34	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/10 05:34	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 05:34	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 05:34	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81.3		%	62-133	SW846 8260B		8/11/10 05:34	DJB	A
4-Bromofluorobenzene (S)	82.5		%	79-114	SW846 8260B		8/11/10 05:34	DJB	A
Dibromofluoromethane (S)	84.2		%	78-116	SW846 8260B		8/11/10 05:34	DJB	A
Toluene-d8 (S)	90.3		%	76-127	SW846 8260B		8/11/10 05:34	DJB	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595021
Sample ID: 058-0802-MW11d

Date Collected: 8/2/2010 12:58
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/10 06:01	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 06:01	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 06:01	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/11/10 06:01	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/10 06:01	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/11/10 06:01	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/10 06:01	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 06:01	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 06:01	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.5		%	62-133	SW846 8260B		8/11/10 06:01	DJB	A
4-Bromofluorobenzene (S)	79.1		%	79-114	SW846 8260B		8/11/10 06:01	DJB	A
Dibromofluoromethane (S)	86.4		%	78-116	SW846 8260B		8/11/10 06:01	DJB	A
Toluene-d8 (S)	86		%	76-127	SW846 8260B		8/11/10 06:01	DJB	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595022
Sample ID: 058-0802-MW12d

Date Collected: 8/2/2010 14:00
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/10 23:41	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 23:41	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 23:41	DD	A
Methyl t-Butyl Ether	4.6		ug/L	1.0	SW846 8260B		8/11/10 23:41	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/10 23:41	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/11/10 23:41	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/10 23:41	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 23:41	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 23:41	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	75.6		%	62-133	SW846 8260B		8/11/10 23:41	DD	A
4-Bromofluorobenzene (S)	96.4		%	79-114	SW846 8260B		8/11/10 23:41	DD	A
Dibromofluoromethane (S)	81.9		%	78-116	SW846 8260B		8/11/10 23:41	DD	A
Toluene-d8 (S)	97		%	76-127	SW846 8260B		8/11/10 23:41	DD	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595023
Sample ID: 058-0802-MW13d

Date Collected: 8/2/2010 16:01
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:15	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:15	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:15	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/12/10 00:15	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/12/10 00:15	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:15	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/12/10 00:15	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:15	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:15	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.8		%	62-133	SW846 8260B		8/12/10 00:15	DD	A
4-Bromofluorobenzene (S)	93		%	79-114	SW846 8260B		8/12/10 00:15	DD	A
Dibromofluoromethane (S)	83.3		%	78-116	SW846 8260B		8/12/10 00:15	DD	A
Toluene-d8 (S)	93.2		%	76-127	SW846 8260B		8/12/10 00:15	DD	A

Sample Comments:

Anna G Milliken
Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595024 Date Collected: 8/2/2010 09:20 Matrix: Ground Water
Sample ID: 058-0802-DW-4 Date Received: 8/5/2010 09:15

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:48	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:48	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:48	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/12/10 00:48	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/12/10 00:48	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:48	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/12/10 00:48	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:48	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/12/10 00:48	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.8		%	62-133	SW846 8260B		8/12/10 00:48	DD	A
4-Bromofluorobenzene (S)	97.9		%	79-114	SW846 8260B		8/12/10 00:48	DD	A
Dibromofluoromethane (S)	84.7		%	78-116	SW846 8260B		8/12/10 00:48	DD	A
Toluene-d8 (S)	96		%	76-127	SW846 8260B		8/12/10 00:48	DD	A

Sample Comments:

A positive residual chlorine result was detected in the preservation check for the volatile organics analysis of this sample. This may be due to the presence of residual chlorine or another oxidizing agent.


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595025
Sample ID: 058-0802-FB1

Date Collected: 8/2/2010 16:20
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:13	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:13	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:13	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/11/10 14:13	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/11/10 14:13	TMP	A
Toluene	3.5		ug/L	1.0	SW846 8260B		8/11/10 14:13	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/11/10 14:13	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:13	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/11/10 14:13	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	83.1		%	62-133	SW846 8260B		8/11/10 14:13	TMP	A
4-Bromofluorobenzene (S)	85.8		%	79-114	SW846 8260B		8/11/10 14:13	TMP	A
Dibromofluoromethane (S)	86.3		%	78-116	SW846 8260B		8/11/10 14:13	TMP	A
Toluene-d8 (S)	87.6		%	76-127	SW846 8260B		8/11/10 14:13	TMP	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595026
Sample ID: 058-0802-FB2

Date Collected: 8/3/2010 15:40
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	1.0		ug/L	1.0	SW846 8260B		8/13/10 14:35	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 14:35	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 14:35	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/13/10 14:35	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/13/10 14:35	TMP	A
Toluene	3.9		ug/L	1.0	SW846 8260B		8/13/10 14:35	TMP	A
Total Xylenes	3.6		ug/L	3.0	SW846 8260B		8/13/10 14:35	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 14:35	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/13/10 14:35	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.6		%	62-133	SW846 8260B		8/13/10 14:35	TMP	A
4-Bromofluorobenzene (S)	84.7		%	79-114	SW846 8260B		8/13/10 14:35	TMP	A
Dibromofluoromethane (S)	85.3		%	78-116	SW846 8260B		8/13/10 14:35	TMP	A
Toluene-d8 (S)	84		%	76-127	SW846 8260B		8/13/10 14:35	TMP	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595027
Sample ID: 058-0802-FB3

Date Collected: 8/4/2010 12:00
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND	1	ug/L	1.0	SW846 8260B		8/14/10 10:00	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/14/10 10:00	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/14/10 10:00	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/14/10 10:00	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/14/10 10:00	MES	A
Toluene	7.0		ug/L	1.0	SW846 8260B		8/14/10 10:00	MES	A
Total Xylenes	5.9		ug/L	3.0	SW846 8260B		8/14/10 10:00	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/14/10 10:00	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/14/10 10:00	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	62-133	SW846 8260B		8/14/10 10:00	MES	A
4-Bromofluorobenzene (S)	90.6		%	79-114	SW846 8260B		8/14/10 10:00	MES	A
Dibromofluoromethane (S)	106		%	78-116	SW846 8260B		8/14/10 10:00	MES	A
Toluene-d8 (S)	112		%	76-127	SW846 8260B		8/14/10 10:00	MES	A

Sample Comments:


Anna G Milliken
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

Lab ID: 9858595028
Sample ID: Trip Blank

Date Collected: 8/5/2010 09:15
Date Received: 8/5/2010 09:15

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/14/10 20:49	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/14/10 20:49	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/14/10 20:49	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/14/10 20:49	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/14/10 20:49	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/14/10 20:49	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/14/10 20:49	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/14/10 20:49	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/14/10 20:49	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	77.5		%	62-133	SW846 8260B		8/14/10 20:49	DD	A
4-Bromofluorobenzene (S)	108		%	79-114	SW846 8260B		8/14/10 20:49	DD	A
Dibromofluoromethane (S)	86.9		%	78-116	SW846 8260B		8/14/10 20:49	DD	A
Toluene-d8 (S)	96.6		%	76-127	SW846 8260B		8/14/10 20:49	DD	A

Sample Comments:


Anna G Milliken
Laboratory Manager



**ANALYTICAL
LABORATORY
SERVICES, INC.**

www.analyticallab.com

**NELAP Accredited
PA 22-293 NJ PA010**



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9858595 LEWIS BROTHERS - PA SITE

PARAMETER QUALIFIERS\FLAGS

- [1] The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Benzene. The % Recovery was reported as 126 and the control limits were 80 to 124.



ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

Page 2 of 4
Client: **FLD Ex**
Tracking #: **8704 1849**
7222

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE
CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717 544 5541 • Fax: 717 944 1430

Co. Name: **PENNSYLVANIA TECTONICS INC.**
Contact (Person): **MARTIN GILGALLON** Phone: **570-487-1959**
Address: **826 MAIN STREET**
PECKVILLE PA 18452

Bill To (Client Name): **POB: 27058**

Project Name/ID: **Lewis Bros Property** ALSI Quote #: **ALSI 27058**
TAT: Normal-Standard TAT in 10-12 business days. Date Required: **8/10/10**
 Rush-Subject to ALSI approval and surcharges. Approved By: **[Signature]**

Email? **PATECTONICS@HOTMAIL.COM**
Fax?

Sample Description/Location	COC Comments	Temp's	Military Time	Enter Number of Containers Per Analysis
1 058-0802-MW095		8.2.10	1030	6
2 058-0802-MW105		8.4.10	1101	6
3 058-0802-MW115		8.4.10	1145	6
4 058-0802-MW125		8.7.10	1040	6
5 058-0802-MW135		8.2.10	1018	6
6 058-0802-MW14		8.3.10	1525	6
7 058-0802-MW22		8.3.10	1120	6
8 058-0802-MW14d		8.3.10	1131	6

LOGGED BY (Signature): **[Signature]** Date: **8/4/10** Time: **1430** Received By / Company Name: **[Signature]** Date: **8/4/10** Time: **1450**

REVIEWED BY (Signature): **[Signature]** Date: **8/4/10** Time: **1515**

Relinquished By / Company Name: **[Signature]**

Receipt Information
Received by: **[Signature]**
Date: **8/4/10**
Cooler Temp: **4**
Therm ID: **18332724**
No. of Coolers: **1**

Notes:
Circle appropriate Y or N

Correct containers?	Y	Correct sample volume?	Y	Received on ice?	Y	COC labels completed/secure?	Y	Container in good condition?	Y
Correct containers?	Y	Correct sample volume?	Y	Received on ice?	Y	COC labels completed/secure?	Y	Container in good condition?	Y
Correct containers?	Y	Correct sample volume?	Y	Received on ice?	Y	COC labels completed/secure?	Y	Container in good condition?	Y

ALSII FIELD SERVICES
 Pick-up
 Labor
 Composite Sampling
 Special Equipment
 Other

Data Deliverables
 Standard
 CUP-As
 NU-Reduced
 NU-F.U.
 If yes, format type: **NO**

State Sampler Form ID's
 PA: NY: NJ: MD: DE: VA: DC: WV: OH: IL: IN: MI: WI: MN: IA: MO: KS: OK: NE: CO: WY: MT: ND: SD: NB: VT: NH: ME: HI: AK: AS: FM: GU: VI: PR: PW: UM: AA: AE: AP: AG: AM: AN: AO: AS: AT: AX: AY: AZ: BA: BB: BC: BD: BE: BF: BG: BH: BI: BJ: BK: BL: BM: BN: BO: BP: BQ: BR: BS: BT: BU: BV: BW: BX: BY: BZ: CA: CB: CC: CD: CE: CF: CG: CH: CI: CJ: CK: CL: CM: CN: CO: CP: CQ: CR: CS: CT: CU: CV: CW: CX: CY: CZ: DA: DB: DC: DD: DE: DF: DG: DH: DI: DJ: DK: DL: DM: DN: DO: DP: DQ: DR: DS: DT: DU: DV: DW: DX: DY: DZ: EA: EB: EC: ED: EE: EF: EG: EH: EI: EJ: EK: EL: EM: EN: EO: EP: EQ: ER: ES: ET: EU: EV: EW: EX: EY: EZ: FA: FB: FC: FD: FE: FF: FG: FH: FI: FJ: FK: FL: FM: FN: FO: FP: FQ: FR: FS: FT: FU: FV: FW: FX: FY: FZ: GA: GB: GC: GD: GE: GF: GG: GH: GI: GJ: GK: GL: GM: GN: GO: GP: GQ: GR: GS: GT: GU: GV: GW: GX: GY: GZ: HA: HB: HC: HD: HE: HF: HG: HH: HI: HJ: HK: HL: HM: HN: HO: HP: HQ: HR: HS: HT: HU: HV: HW: HX: HY: HZ: IA: IB: IC: ID: IE: IF: IG: IH: II: IJ: IK: IL: IM: IN: IO: IP: IQ: IR: IS: IT: IU: IV: IW: IX: IY: IZ: JA: JB: JC: JD: JE: JF: JG: JH: JI: JJ: JK: JL: JM: JN: JO: JP: JQ: JR: JS: JT: JU: JV: JW: JX: JY: JZ: KA: KB: KC: KD: KE: KF: KG: KH: KI: KJ: KK: KL: KM: KN: KO: KP: KQ: KR: KS: KT: KU: KV: KW: KX: KY: KZ: LA: LB: LC: LD: LE: LF: LG: LH: LI: LJ: LK: LL: LM: LN: LO: LP: LQ: LR: LS: LT: LU: LV: LW: LX: LY: LZ: MA: MB: MC: MD: ME: MF: MG: MH: MI: MJ: MK: ML: MM: MN: MO: MP: MQ: MR: MS: MT: MU: MV: MW: MX: MY: MZ: NA: NB: NC: ND: NE: NF: NG: NH: NI: NJ: NK: NL: NM: NN: NO: NP: NQ: NR: NS: NT: NU: NV: NW: NX: NY: NZ: OA: OB: OC: OD: OE: OF: OG: OH: OI: OJ: OK: OL: OM: ON: OO: OP: OQ: OR: OS: OT: OU: OV: OW: OX: OY: OZ: PA: PB: PC: PD: PE: PF: PG: PH: PI: PJ: PK: PL: PM: PN: PO: PP: PQ: PR: PS: PT: PU: PV: PW: PX: PY: PZ: QA: QB: QC: QD: QE: QF: QG: QH: QI: QJ: QK: QL: QM: QN: QO: QP: QQ: QR: QS: QT: QU: QV: QW: QX: QY: QZ: RA: RB: RC: RD: RE: RF: RG: RH: RI: RJ: RK: RL: RM: RN: RO: RP: RQ: RR: RS: RT: RU: RV: RW: RX: RY: RZ: SA: SB: SC: SD: SE: SF: SG: SH: SI: SJ: SK: SL: SM: SN: SO: SP: SQ: SR: SS: ST: SU: SV: SW: SX: SY: SZ: TA: TB: TC: TD: TE: TF: TG: TH: TI: TJ: TK: TL: TM: TN: TO: TP: TQ: TR: TS: TU: TV: TW: TX: TY: TZ: UA: UB: UC: UD: UE: UF: UG: UH: UI: UJ: UK: UL: UM: UN: UO: UP: UQ: UR: US: UT: UY: UZ: VA: VB: VC: VD: VE: VF: VG: VH: VI: VJ: VK: VL: VM: VN: VO: VP: VQ: VR: VS: VT: VU: VV: VW: VX: VY: VZ: WA: WB: WC: WD: WE: WF: WG: WH: WI: WJ: WK: WL: WM: WN: WO: WP: WQ: WR: WS: WT: WY: WZ: XA: XB: XC: XD: XE: XF: XG: XH: XI: XJ: XK: XL: XM: XN: XO: XP: XQ: XR: XS: XT: XU: XV: XW: XX: XY: XZ: YA: YB: YC: YD: YE: YF: YG: YH: YI: YJ: YK: YL: YM: YN: YO: YP: YQ: YR: YS: YT: YU: YV: YW: YX: YY: YZ: ZA: ZB: ZC: ZD: ZE: ZF: ZG: ZH: ZI: ZJ: ZK: ZL: ZM: ZN: ZO: ZP: ZQ: ZR: ZS: ZT: ZU: ZV: ZW: ZX: ZY: ZZ:

* G-Gab; C-Composite **Matrix: Amber; Color-Delimiting Marker; GWR-Groundwater; D-GD; G: Other Liquid; SL-SLUDGE; SO-SOIL; WP-Water; WWR-Water/water
 ***Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic; Container Size: 250ml, 500ml, 1L, 5L, etc. ***Manufacturer: NCI, HROD, NNDM, etc.
 Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
 Rev-007



ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER (INSTRUCTIONS ON THE BACK)

Page 3 of 4
Courier: **FED-EX**
Tracking #: **8704 1849**
7222

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services

34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: **PENNSYLVANIA TECTONICS INC**
Contact (Print): **MARTIN GILGALLON** Phone: **570-487-1959**
Address: **826 MAIN STREET**
PECKVILLE PA 18452

Bill To (if other than Report To): **POB: 27058**

Project Name#: **LEWIS BROS PROPERTY** ALSI Quote #: **POB: 27058**
TAT: Normal-Standard TAT is 10-12 business days. Date Required:
 Rush-Subject to ALSI approval and surcharges. Approved By:

Email? Y N **PATECTONICS@HOTMAIL.COM**
Fax? Y N

Sample Description/Location <small>(to be filled in by client)</small>	COC Comments	Sample Date	Military Time
1 058-0803-MW1d		8.3.10	1530
2 058-0803-MW8d		8.7.10	0753
3 058-0803-MW9d		8.2.10	0919
4 058-0803-MW10d		8.2.10	1142
5 058-0803-MW11d		8.2.10	1258
6 058-0803-MW12d		8.2.10	1400
7 058-0803-MW13d		8.2.10	1609
8 058-0803-010-4		8.2.10	0920

LOGGED BY (signature): **[Signature]**
REVIEWED BY (signature): **[Signature]**

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
H. Cuccura	8.4.10	1430	8704 1849 7222	8.4.10	1430
[Signature]			[Signature]		

Received information furnished by client/submitter: **9P58884S**

Circle appropriate Y or N.

Correct containers?	Y
Correct sample volumes?	Y
(If present) Seals intact?	Y
Received on heat?	Y
COC labels complete/accurate?	Y
Container in good condition?	Y

Therm ID: **101332724**

No. of Coolers: **4**

Notes:

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Analysis

UNLEADED GASOLINE (PAPER MAR. 18, 2008 LIST)

Container Type: **CG**

Container Size: **40ML**

Preservatives: **HCl**

SOA Form: Yes No

Standard: Standard C.P. 100 N.J. Reduced N.J. FC

Other: **NO**

ALS FIELD SERVICES: Pickup Labor Complete Sampling Rental Equipment Other



ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited
PA 22-293 NJ PA010



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

Page 4 of 4
Center: **FED-CR**
Tracking #: **8704 1849**
7222

9858585

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER (INSTRUCTIONS ON THE BACK)

Co. Name: **Pennsylvania Tecronics, Inc.** Phone: **570-483-1959**
Contact (Agent): **MARTIN C. IGGALLON**
Address: **826 MAIN STREET**
PECKWILL PA 18452

Project Name/ID: **Lewis Bros Property** ALSI Quote #: **PO# 27658**
TAT: Normal Standard TAT is 10-12 business days. Date Required: **8-4-10**
Rush Subject to ALSI approval and surcharge. Approved By: **[Signature]**

Sample Description/Location (as it will appear on the job report):
 1 **058.0802. FB1** Sample Date: **8-2-10** Military Time: **1620** Matrix: **DE Z**
 2 **058.0802. FB2** Sample Date: **8-3-10** Military Time: **1540** Matrix: **DE Z**
 3 **058.0802. FB3** Sample Date: **8-4-10** Military Time: **1200** Matrix: **DE Z**
 4 **TR** Sample Date: **8/5/10** Military Time: **0915** Matrix: **Z**

Bill to address (as Report to): **PO# 27658**

Receipt Information:
 Analytical Lab Received:
 Customer Received:
 Cooler Temp: **4**
 Therm. ID: **10332174**
 No. of Containers: **4**
 Notes: **WANTED GASOLINE (Paper Mark 18, 2008 CR)**

Sample No.	Sample Description/Location	Sample Date	Military Time	Matrix	Enter Number of Containers Per Analysis
1	058.0802. FB1	8-2-10	1620	DE Z	
2	058.0802. FB2	8-3-10	1540	DE Z	
3	058.0802. FB3	8-4-10	1200	DE Z	
4	TR	8/5/10	0915	Z	

Correct container? Correct sample volume? Correct preservation? Headspace/Volatiles? Container in good condition?

Custody seals Present? (If present) Seals intact? Received on lot? COC Labels complete/accurate?

ALSIS FIELD SERVICES:
 Pick-up Labor Composite Sampling Build Equipment Other:

Data Deliverables:
 Standard
 CLP-MS
 NJ-Reduced
 NJ F-3
 Yes, Initial type (Date)

Small Samples Collected in? MD NJ NY PA

EDS Required? EDS Criteria Required? **NO**

LOGGED BY/Signature: **[Signature]** Date: **8/10/10** Time: **1126**
 REVIEWED BY/Signature: **[Signature]** Date: **8-4-10** Time: **1430**
 Relinquished By / Company Name: **K. Cucupa** Received By / Company Name: **[Signature]** Date: **8-4-10** Time: **1430**
 Relinquished By / Company Name: **[Signature]** Date: **8-4-10** Time: **1430**

Footnote: *G-Grab; C-Composite **Matrix: Air-Mtr; Eth-Drawing Water; OTH-Groundwater; D-Soil; CL-Other Liquid; SL-Soil; S-Soil; W-Pow; J-Pl; WH-Waterwear ***Container Type: AG-Ambor Glass; CO-Clear Glass; PL-Plastic; Container Size: 20ml, 50ml, 1L, 5L, etc. Preservation: HCL, HNO3, H2O2, etc.

Groundwater Sampling Analytical Data Sheets

September 26, 27 & 28, 2011

October 12, 2011

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

Certificate of Analysis

Project Name: 27058	Workorder: 9929334
Purchase Order:	Workorder ID: 27058

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Thursday, September 29, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9929334 27058

Discard Date: 10/26/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9929334001	0258-0926-MW1S	Water	9/26/11 13:15	9/29/11 16:10	Customer
9929334002	0258-0926-MW2S	Water	9/27/11 08:38	9/29/11 16:10	Customer
9929334003	0258-0926-MW3S	Water	9/27/11 09:15	9/29/11 16:10	Customer
9929334004	0258-0926-MW4S	Water	9/28/11 15:46	9/29/11 16:10	Customer
9929334005	0258-0926-MW5S	Water	9/26/11 12:34	9/29/11 16:10	Customer
9929334006	0258-0926-MW6S	Water	9/26/11 13:50	9/29/11 16:10	Customer
9929334007	0258-0926-MW7S	Water	9/28/11 09:57	9/29/11 16:10	Customer
9929334008	0258-0926-MW8S	Water	9/28/11 13:16	9/29/11 16:10	Customer
9929334009	0258-0926-MW9S	Water	9/26/11 08:43	9/29/11 16:10	Customer
9929334010	0258-0926-MW10S	Water	9/28/11 14:00	9/29/11 16:10	Customer
9929334011	0258-0926-MW11S	Water	9/28/11 14:38	9/29/11 16:10	Customer
9929334012	0258-0926-MW12S	Water	9/26/11 15:28	9/29/11 16:10	Customer
9929334013	0258-0926-MW13S	Water	9/26/11 14:25	9/29/11 16:10	Customer
9929334014	0258-0926-MW14S	Water	9/28/11 11:22	9/29/11 16:10	Customer
9929334015	0258-0926-MW15S	Water	9/26/11 11:15	9/29/11 16:10	Customer
9929334016	0258-0926-MW16S	Water	9/26/11 10:25	9/29/11 16:10	Customer
9929334017	0258-0926-MW17S	Water	9/26/11 09:40	9/29/11 16:10	Customer
9929334018	0258-0926-MW1d	Water	9/28/11 09:50	9/29/11 16:10	Customer
9929334019	0258-0926-MW2d	Water	9/28/11 10:20	9/29/11 16:10	Customer
9929334020	0258-0926-MW6d	Water	9/28/11 10:05	9/29/11 16:10	Customer
9929334021	0258-0926-MW7d	Water	9/28/11 15:26	9/29/11 16:10	Customer
9929334022	0258-0926-MW8d	Water	9/27/11 08:29	9/29/11 16:10	Customer
9929334023	0258-0926-MW9d	Water	9/27/11 09:43	9/29/11 16:10	Customer
9929334024	0258-0926-MW10d	Water	9/27/11 12:10	9/29/11 16:10	Customer
9929334025	0258-0926-MW11d	Water	9/27/11 14:09	9/29/11 16:10	Customer
9929334026	0258-0926-MW12d	Water	9/27/11 15:23	9/29/11 16:10	Customer
9929334027	0258-0926-MW13d	Water	9/27/11 10:55	9/29/11 16:10	Customer
9929334028	0258-0926-SW1	Water	9/27/11 08:12	9/29/11 16:10	Customer
9929334029	0258-0926-SW2	Water	9/27/11 08:09	9/29/11 16:10	Customer
9929334030	0258-0926-SW3	Water	9/27/11 08:03	9/29/11 16:10	Customer
9929334031	0258-0926-FB1	Water	9/26/11 15:50	9/29/11 16:10	Customer
9929334032	0258-0926-FB2	Water	9/27/11 15:50	9/29/11 16:10	Customer
9929334033	0258-0926-FB3	Water	9/28/11 16:05	9/29/11 16:10	Customer

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 9929334 27058

Discard Date: 10/26/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9929334034	0258-0926-OW4	Water	9/26/11 14:55	9/29/11 16:10	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334001**

Date Collected: 9/26/2011 13:15

Matrix: Water

Sample ID: **0258-0926-MW1S**

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:27	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:27	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:27	TMP	A
Methyl t-Butyl Ether	6.7		ug/L	1.0	SW846 8260B		10/7/11 18:27	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/7/11 18:27	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:27	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/7/11 18:27	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:27	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:27	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.7		%	62-133	SW846 8260B		10/7/11 18:27	TMP	A
4-Bromofluorobenzene (S)	92		%	79-114	SW846 8260B		10/7/11 18:27	TMP	A
Dibromofluoromethane (S)	80.5		%	78-116	SW846 8260B		10/7/11 18:27	TMP	A
Toluene-d8 (S)	93.1		%	76-127	SW846 8260B		10/7/11 18:27	TMP	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334002

Date Collected: 9/27/2011 08:38

Matrix: Water

Sample ID: 0258-0926-MW2S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	3080		ug/L	50.0	SW846 8260B		10/11/11 11:43	DJB	B
Ethylbenzene	1810		ug/L	50.0	SW846 8260B		10/11/11 11:43	DJB	B
Isopropylbenzene	128		ug/L	5.0	SW846 8260B		10/9/11 07:42	TMP	A
Methyl t-Butyl Ether	620		ug/L	5.0	SW846 8260B		10/9/11 07:42	TMP	A
Naphthalene	303		ug/L	10.0	SW846 8260B		10/9/11 07:42	TMP	A
Toluene	7210		ug/L	50.0	SW846 8260B		10/11/11 11:43	DJB	B
Total Xylenes	8480		ug/L	150	SW846 8260B		10/11/11 11:43	DJB	B
1,2,4-Trimethylbenzene	2380		ug/L	50.0	SW846 8260B		10/11/11 11:43	DJB	B
1,3,5-Trimethylbenzene	363		ug/L	5.0	SW846 8260B		10/9/11 07:42	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	56.3	3	%	62-133	SW846 8260B		10/9/11 07:42	TMP	A
4-Bromofluorobenzene (S)	78.7	5	%	79-114	SW846 8260B		10/9/11 07:42	TMP	A
Dibromofluoromethane (S)	62.4	1	%	78-116	SW846 8260B		10/9/11 07:42	TMP	A
Toluene-d8 (S)	73.8	4	%	76-127	SW846 8260B		10/9/11 07:42	TMP	A
1,2-Dichloroethane-d4 (S)	77.2		%	62-133	SW846 8260B		10/11/11 11:43	DJB	B
4-Bromofluorobenzene (S)	94.1		%	79-114	SW846 8260B		10/11/11 11:43	DJB	B
Dibromofluoromethane (S)	77.1	2	%	78-116	SW846 8260B		10/11/11 11:43	DJB	B
Toluene-d8 (S)	95.1		%	76-127	SW846 8260B		10/11/11 11:43	DJB	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334003

Date Collected: 9/27/2011 09:15

Matrix: Water

Sample ID: 0258-0926-MW3S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	6800		ug/L	50.0	SW846 8260B		10/9/11 08:09	TMP	A
Ethylbenzene	1910		ug/L	50.0	SW846 8260B		10/9/11 08:09	TMP	A
Isopropylbenzene	175		ug/L	50.0	SW846 8260B		10/9/11 08:09	TMP	A
Methyl t-Butyl Ether	714		ug/L	50.0	SW846 8260B		10/9/11 08:09	TMP	A
Naphthalene	811		ug/L	100	SW846 8260B		10/9/11 08:09	TMP	A
Toluene	15300		ug/L	500	SW846 8260B		10/11/11 11:20	DJB	B
Total Xylenes	14300		ug/L	150	SW846 8260B		10/9/11 08:09	TMP	A
1,2,4-Trimethylbenzene	3620		ug/L	50.0	SW846 8260B		10/9/11 08:09	TMP	A
1,3,5-Trimethylbenzene	916		ug/L	50.0	SW846 8260B		10/9/11 08:09	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	54.8	8	%	62-133	SW846 8260B		10/9/11 08:09	TMP	A
4-Bromofluorobenzene (S)	72.1	9	%	79-114	SW846 8260B		10/9/11 08:09	TMP	A
Dibromofluoromethane (S)	64.2	6	%	78-116	SW846 8260B		10/9/11 08:09	TMP	A
Toluene-d8 (S)	76.9		%	76-127	SW846 8260B		10/9/11 08:09	TMP	A
1,2-Dichloroethane-d4 (S)	75		%	62-133	SW846 8260B		10/11/11 11:20	DJB	B
4-Bromofluorobenzene (S)	92.2		%	79-114	SW846 8260B		10/11/11 11:20	DJB	B
Dibromofluoromethane (S)	76.1	7	%	78-116	SW846 8260B		10/11/11 11:20	DJB	B
Toluene-d8 (S)	94.1		%	76-127	SW846 8260B		10/11/11 11:20	DJB	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334004

Date Collected: 9/28/2011 15:46

Matrix: Water

Sample ID: 0258-0926-MW4S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	85.6		ug/L	10.0	SW846 8260B		10/9/11 18:52	DD	A
Ethylbenzene	444		ug/L	10.0	SW846 8260B		10/9/11 18:52	DD	A
Isopropylbenzene	46.8		ug/L	10.0	SW846 8260B		10/9/11 18:52	DD	A
Methyl t-Butyl Ether	97.9		ug/L	10.0	SW846 8260B		10/9/11 18:52	DD	A
Naphthalene	37.9		ug/L	20.0	SW846 8260B		10/9/11 18:52	DD	A
Toluene	19.3		ug/L	10.0	SW846 8260B		10/9/11 18:52	DD	A
Total Xylenes	239		ug/L	30.0	SW846 8260B		10/9/11 18:52	DD	A
1,2,4-Trimethylbenzene	274		ug/L	10.0	SW846 8260B		10/9/11 18:52	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	10.0	SW846 8260B		10/9/11 18:52	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.7		%	62-133	SW846 8260B		10/9/11 18:52	DD	A
4-Bromofluorobenzene (S)	96.6		%	79-114	SW846 8260B		10/9/11 18:52	DD	A
Dibromofluoromethane (S)	94.8		%	78-116	SW846 8260B		10/9/11 18:52	DD	A
Toluene-d8 (S)	89.6		%	76-127	SW846 8260B		10/9/11 18:52	DD	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334005

Date Collected: 9/26/2011 12:34

Matrix: Water

Sample ID: 0258-0926-MW5S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:05	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:05	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:05	TMP	A
Methyl t-Butyl Ether	22.8		ug/L	1.0	SW846 8260B		10/7/11 18:05	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/7/11 18:05	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:05	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/7/11 18:05	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:05	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:05	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.8		%	62-133	SW846 8260B		10/7/11 18:05	TMP	A
4-Bromofluorobenzene (S)	93.3		%	79-114	SW846 8260B		10/7/11 18:05	TMP	A
Dibromofluoromethane (S)	82		%	78-116	SW846 8260B		10/7/11 18:05	TMP	A
Toluene-d8 (S)	93.7		%	76-127	SW846 8260B		10/7/11 18:05	TMP	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334006

Date Collected: 9/26/2011 13:50

Matrix: Water

Sample ID: 0258-0926-MW6S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	61.9		ug/L	1.0	SW846 8260B		10/7/11 18:50	TMP	A
Ethylbenzene	3.1		ug/L	1.0	SW846 8260B		10/7/11 18:50	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:50	TMP	A
Methyl t-Butyl Ether	5.6		ug/L	1.0	SW846 8260B		10/7/11 18:50	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/7/11 18:50	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:50	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/7/11 18:50	TMP	A
1,2,4-Trimethylbenzene	1.9		ug/L	1.0	SW846 8260B		10/7/11 18:50	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 18:50	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.2		%	62-133	SW846 8260B		10/7/11 18:50	TMP	A
4-Bromofluorobenzene (S)	91.3		%	79-114	SW846 8260B		10/7/11 18:50	TMP	A
Dibromofluoromethane (S)	78.7		%	78-116	SW846 8260B		10/7/11 18:50	TMP	A
Toluene-d8 (S)	90.1		%	76-127	SW846 8260B		10/7/11 18:50	TMP	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334007

Date Collected: 9/28/2011 09:57

Matrix: Water

Sample ID: 0258-0926-MW7S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:25	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:25	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:25	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 19:25	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 19:25	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:25	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 19:25	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:25	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:25	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	93.4		%	62-133	SW846 8260B		10/9/11 19:25	DD	A
4-Bromofluorobenzene (S)	99.3		%	79-114	SW846 8260B		10/9/11 19:25	DD	A
Dibromofluoromethane (S)	93.1		%	78-116	SW846 8260B		10/9/11 19:25	DD	A
Toluene-d8 (S)	90.2		%	76-127	SW846 8260B		10/9/11 19:25	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334008

Sample ID: 0258-0926-MW8S

Date Collected: 9/28/2011 13:16

Matrix: Water

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 19:59	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 19:59	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.8		%	62-133	SW846 8260B		10/9/11 19:59	DD	A
4-Bromofluorobenzene (S)	103		%	79-114	SW846 8260B		10/9/11 19:59	DD	A
Dibromofluoromethane (S)	93.7		%	78-116	SW846 8260B		10/9/11 19:59	DD	A
Toluene-d8 (S)	89.4		%	76-127	SW846 8260B		10/9/11 19:59	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334009

Date Collected: 9/26/2011 08:43

Matrix: Water

Sample ID: 0258-0926-MW9S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:51	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:51	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:51	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/6/11 17:51	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/6/11 17:51	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:51	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/6/11 17:51	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:51	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:51	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86		%	62-133	SW846 8260B		10/6/11 17:51	MES	A
4-Bromofluorobenzene (S)	92.6		%	79-114	SW846 8260B		10/6/11 17:51	MES	A
Dibromofluoromethane (S)	81.6		%	78-116	SW846 8260B		10/6/11 17:51	MES	A
Toluene-d8 (S)	93		%	76-127	SW846 8260B		10/6/11 17:51	MES	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334010**

Date Collected: 9/28/2011 14:00

Matrix: Water

Sample ID: **0258-0926-MW10S**

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:32	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:32	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:32	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 20:32	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 20:32	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:32	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 20:32	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:32	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:32	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.8		%	62-133	SW846 8260B		10/9/11 20:32	DD	A
4-Bromofluorobenzene (S)	97.8		%	79-114	SW846 8260B		10/9/11 20:32	DD	A
Dibromofluoromethane (S)	94.6		%	78-116	SW846 8260B		10/9/11 20:32	DD	A
Toluene-d8 (S)	90.5		%	76-127	SW846 8260B		10/9/11 20:32	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334011**

Date Collected: 9/28/2011 14:38

Matrix: Water

Sample ID: **0258-0926-MW11 S**

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	437		ug/L	5.0	SW846 8260B		10/9/11 23:52	DD	A
Ethylbenzene	559		ug/L	5.0	SW846 8260B		10/9/11 23:52	DD	A
Isopropylbenzene	41.1		ug/L	5.0	SW846 8260B		10/9/11 23:52	DD	A
Methyl t-Butyl Ether	32.8		ug/L	5.0	SW846 8260B		10/9/11 23:52	DD	A
Naphthalene	99.8		ug/L	10.0	SW846 8260B		10/9/11 23:52	DD	A
Toluene	164		ug/L	5.0	SW846 8260B		10/9/11 23:52	DD	A
Total Xylenes	1760		ug/L	15.0	SW846 8260B		10/9/11 23:52	DD	A
1,2,4-Trimethylbenzene	544		ug/L	5.0	SW846 8260B		10/9/11 23:52	DD	A
1,3,5-Trimethylbenzene	165		ug/L	5.0	SW846 8260B		10/9/11 23:52	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.8		%	62-133	SW846 8260B		10/9/11 23:52	DD	A
4-Bromofluorobenzene (S)	96.3		%	79-114	SW846 8260B		10/9/11 23:52	DD	A
Dibromofluoromethane (S)	92.3		%	78-116	SW846 8260B		10/9/11 23:52	DD	A
Toluene-d8 (S)	88		%	76-127	SW846 8260B		10/9/11 23:52	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334012

Date Collected: 9/26/2011 15:28

Matrix: Water

Sample ID: 0258-0926-MW12S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:58	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:58	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:58	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/7/11 19:58	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/7/11 19:58	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:58	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/7/11 19:58	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:58	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:58	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.1		%	62-133	SW846 8260B		10/7/11 19:58	TMP	A
4-Bromofluorobenzene (S)	92.2		%	79-114	SW846 8260B		10/7/11 19:58	TMP	A
Dibromofluoromethane (S)	78.6		%	78-116	SW846 8260B		10/7/11 19:58	TMP	A
Toluene-d8 (S)	90.2		%	76-127	SW846 8260B		10/7/11 19:58	TMP	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334013

Date Collected: 9/26/2011 14:25

Matrix: Water

Sample ID: 0258-0926-MW13S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:13	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:13	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:13	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/7/11 19:13	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/7/11 19:13	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:13	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/7/11 19:13	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:13	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:13	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.4		%	62-133	SW846 8260B		10/7/11 19:13	TMP	A
4-Bromofluorobenzene (S)	94.4		%	79-114	SW846 8260B		10/7/11 19:13	TMP	A
Dibromofluoromethane (S)	81.2		%	78-116	SW846 8260B		10/7/11 19:13	TMP	A
Toluene-d8 (S)	92.5		%	76-127	SW846 8260B		10/7/11 19:13	TMP	A

Sample Comments:

A positive residual chlorine result was detected in the preservation check for the volatile organics analysis of this sample. This may be due to the presence of residual chlorine or another oxidizing agent.



Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334014**

Date Collected: 9/28/2011 11:22

Matrix: Water

Sample ID: **0258-0926-MW14S**

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:05	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:05	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:05	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 21:05	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 21:05	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:05	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 21:05	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:05	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:05	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.6		%	62-133	SW846 8260B		10/9/11 21:05	DD	A
4-Bromofluorobenzene (S)	98.8		%	79-114	SW846 8260B		10/9/11 21:05	DD	A
Dibromofluoromethane (S)	94.2		%	78-116	SW846 8260B		10/9/11 21:05	DD	A
Toluene-d8 (S)	89.9		%	76-127	SW846 8260B		10/9/11 21:05	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334015

Date Collected: 9/26/2011 11:15

Matrix: Water

Sample ID: 0258-0926-MW15S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/7/11 03:39	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 03:39	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 03:39	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/7/11 03:39	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/7/11 03:39	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/7/11 03:39	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/7/11 03:39	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 03:39	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 03:39	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	93.4		%	62-133	SW846 8260B		10/7/11 03:39	MES	A
4-Bromofluorobenzene (S)	96.4		%	79-114	SW846 8260B		10/7/11 03:39	MES	A
Dibromofluoromethane (S)	95.8		%	78-116	SW846 8260B		10/7/11 03:39	MES	A
Toluene-d8 (S)	91.1		%	76-127	SW846 8260B		10/7/11 03:39	MES	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334016

Date Collected: 9/26/2011 10:25

Matrix: Water

Sample ID: 0258-0926-MW16S

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:06	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:06	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:06	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/6/11 17:06	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/6/11 17:06	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:06	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/6/11 17:06	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:06	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:06	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.7		%	62-133	SW846 8260B		10/6/11 17:06	MES	A
4-Bromofluorobenzene (S)	91.8		%	79-114	SW846 8260B		10/6/11 17:06	MES	A
Dibromofluoromethane (S)	80.2		%	78-116	SW846 8260B		10/6/11 17:06	MES	A
Toluene-d8 (S)	90.1		%	76-127	SW846 8260B		10/6/11 17:06	MES	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334017**

Date Collected: 9/26/2011 09:40

Matrix: Water

Sample ID: **0258-0926-MW17S**

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:29	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:29	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:29	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/6/11 17:29	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/6/11 17:29	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:29	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/6/11 17:29	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:29	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/6/11 17:29	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.1		%	62-133	SW846 8260B		10/6/11 17:29	MES	A
4-Bromofluorobenzene (S)	94.2		%	79-114	SW846 8260B		10/6/11 17:29	MES	A
Dibromofluoromethane (S)	81		%	78-116	SW846 8260B		10/6/11 17:29	MES	A
Toluene-d8 (S)	91.7		%	76-127	SW846 8260B		10/6/11 17:29	MES	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334018**

Date Collected: 9/28/2011 09:50

Matrix: Water

Sample ID: **0258-0926-MW1d**

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:38	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:38	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:38	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 21:38	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 21:38	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:38	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 21:38	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:38	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:38	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.5		%	62-133	SW846 8260B		10/9/11 21:38	DD	A
4-Bromofluorobenzene (S)	98.9		%	79-114	SW846 8260B		10/9/11 21:38	DD	A
Dibromofluoromethane (S)	94.7		%	78-116	SW846 8260B		10/9/11 21:38	DD	A
Toluene-d8 (S)	92.1		%	76-127	SW846 8260B		10/9/11 21:38	DD	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334019**

Date Collected: 9/28/2011 10:20

Matrix: Water

Sample ID: **0258-0926-MW2d**

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	27.3		ug/L	1.0	SW846 8260B		10/9/11 22:45	DD	A
Ethylbenzene	68.7		ug/L	1.0	SW846 8260B		10/9/11 22:45	DD	A
Isopropylbenzene	5.4		ug/L	1.0	SW846 8260B		10/9/11 22:45	DD	A
Methyl t-Butyl Ether	10.1		ug/L	1.0	SW846 8260B		10/9/11 22:45	DD	A
Naphthalene	9.0		ug/L	2.0	SW846 8260B		10/9/11 22:45	DD	A
Toluene	10.3		ug/L	1.0	SW846 8260B		10/9/11 22:45	DD	A
Total Xylenes	74.0		ug/L	3.0	SW846 8260B		10/9/11 22:45	DD	A
1,2,4-Trimethylbenzene	47.3		ug/L	1.0	SW846 8260B		10/9/11 22:45	DD	A
1,3,5-Trimethylbenzene	2.2		ug/L	1.0	SW846 8260B		10/9/11 22:45	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62-133	SW846 8260B		10/9/11 22:45	DD	A
4-Bromofluorobenzene (S)	97.8		%	79-114	SW846 8260B		10/9/11 22:45	DD	A
Dibromofluoromethane (S)	95.6		%	78-116	SW846 8260B		10/9/11 22:45	DD	A
Toluene-d8 (S)	88.2		%	76-127	SW846 8260B		10/9/11 22:45	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334020

Sample ID: 0258-0926-MW6d

Date Collected: 9/28/2011 10:05

Matrix: Water

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 22:12	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 22:12	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 22:12	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 22:12	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 22:12	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 22:12	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 22:12	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 22:12	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 22:12	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		10/9/11 22:12	DD	A
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B		10/9/11 22:12	DD	A
Dibromofluoromethane (S)	97.1		%	78-116	SW846 8260B		10/9/11 22:12	DD	A
Toluene-d8 (S)	92.2		%	76-127	SW846 8260B		10/9/11 22:12	DD	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334021**

Date Collected: 9/28/2011 15:26

Matrix: Water

Sample ID: **0258-0926-MW7d**

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 23:18	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 23:18	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 23:18	DD	A
Methyl t-Butyl Ether	23.0		ug/L	1.0	SW846 8260B		10/9/11 23:18	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 23:18	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 23:18	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 23:18	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 23:18	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 23:18	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.6		%	62-133	SW846 8260B		10/9/11 23:18	DD	A
4-Bromofluorobenzene (S)	96.7		%	79-114	SW846 8260B		10/9/11 23:18	DD	A
Dibromofluoromethane (S)	95.5		%	78-116	SW846 8260B		10/9/11 23:18	DD	A
Toluene-d8 (S)	89.9		%	76-127	SW846 8260B		10/9/11 23:18	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334022

Date Collected: 9/27/2011 08:29

Matrix: Water

Sample ID: 0258-0926-MW8d

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 02:55	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 02:55	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 02:55	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 02:55	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 02:55	TMP	A
Toluene	3.1		ug/L	1.0	SW846 8260B		10/9/11 02:55	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 02:55	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 02:55	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 02:55	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.3		%	62-133	SW846 8260B		10/9/11 02:55	TMP	A
4-Bromofluorobenzene (S)	86.7		%	79-114	SW846 8260B		10/9/11 02:55	TMP	A
Dibromofluoromethane (S)	98.1		%	78-116	SW846 8260B		10/9/11 02:55	TMP	A
Toluene-d8 (S)	107		%	76-127	SW846 8260B		10/9/11 02:55	TMP	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334023

Date Collected: 9/27/2011 09:43

Matrix: Water

Sample ID: 0258-0926-MW9d

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 17:50	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 17:50	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 17:50	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 17:50	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 17:50	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 17:50	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 17:50	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 17:50	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 17:50	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62-133	SW846 8260B		10/9/11 17:50	DD	A
4-Bromofluorobenzene (S)	88.8		%	79-114	SW846 8260B		10/9/11 17:50	DD	A
Dibromofluoromethane (S)	102		%	78-116	SW846 8260B		10/9/11 17:50	DD	A
Toluene-d8 (S)	116		%	76-127	SW846 8260B		10/9/11 17:50	DD	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334024

Date Collected: 9/27/2011 12:10

Matrix: Water

Sample ID: 0258-0926-MW10d

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			10/9/11 18:22	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			10/9/11 18:22	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			10/9/11 18:22	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			10/9/11 18:22	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			10/9/11 18:22	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			10/9/11 18:22	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			10/9/11 18:22	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/9/11 18:22	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			10/9/11 18:22	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B			10/9/11 18:22	DD	A
4-Bromofluorobenzene (S)	89.1		%	79-114	SW846 8260B			10/9/11 18:22	DD	A
Dibromofluoromethane (S)	103		%	78-116	SW846 8260B			10/9/11 18:22	DD	A
Toluene-d8 (S)	114		%	76-127	SW846 8260B			10/9/11 18:22	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334025

Sample ID: 0258-0926-MW11d

Date Collected: 9/27/2011 14:09

Matrix: Water

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 18:55	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 18:55	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 18:55	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 18:55	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 18:55	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 18:55	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 18:55	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 18:55	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 18:55	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	113		%	62-133	SW846 8260B		10/9/11 18:55	DD	A
4-Bromofluorobenzene (S)	89.2		%	79-114	SW846 8260B		10/9/11 18:55	DD	A
Dibromofluoromethane (S)	108		%	78-116	SW846 8260B		10/9/11 18:55	DD	A
Toluene-d8 (S)	113		%	76-127	SW846 8260B		10/9/11 18:55	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334026

Date Collected: 9/27/2011 15:23

Matrix: Water

Sample ID: 0258-0926-MW12d

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:27	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:27	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:27	DD	A
Methyl t-Butyl Ether	5.3		ug/L	1.0	SW846 8260B		10/9/11 19:27	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 19:27	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:27	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 19:27	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:27	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:27	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	62-133	SW846 8260B		10/9/11 19:27	DD	A
4-Bromofluorobenzene (S)	84.6		%	79-114	SW846 8260B		10/9/11 19:27	DD	A
Dibromofluoromethane (S)	103		%	78-116	SW846 8260B		10/9/11 19:27	DD	A
Toluene-d8 (S)	108		%	76-127	SW846 8260B		10/9/11 19:27	DD	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334027**

Date Collected: 9/27/2011 10:55

Matrix: Water

Sample ID: **0258-0926-MW13d**

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 19:59	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 19:59	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 19:59	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62-133	SW846 8260B		10/9/11 19:59	DD	A
4-Bromofluorobenzene (S)	86.6		%	79-114	SW846 8260B		10/9/11 19:59	DD	A
Dibromofluoromethane (S)	98.5		%	78-116	SW846 8260B		10/9/11 19:59	DD	A
Toluene-d8 (S)	108		%	76-127	SW846 8260B		10/9/11 19:59	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: 9929334028

Sample ID: 0258-0926-SW1

Date Collected: 9/27/2011 08:12

Matrix: Water

Date Received: 9/29/2011 16:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:31	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:31	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:31	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 20:31	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 20:31	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:31	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 20:31	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:31	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 20:31	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	62-133	SW846 8260B		10/9/11 20:31	DD	A
4-Bromofluorobenzene (S)	84.1		%	79-114	SW846 8260B		10/9/11 20:31	DD	A
Dibromofluoromethane (S)	103		%	78-116	SW846 8260B		10/9/11 20:31	DD	A
Toluene-d8 (S)	108		%	76-127	SW846 8260B		10/9/11 20:31	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

 Lab ID: **9929334029**
 Sample ID: **0258-0926-SW2**

 Date Collected: 9/27/2011 08:09
 Date Received: 9/29/2011 16:10

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:04	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:04	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:04	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 21:04	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 21:04	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:04	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 21:04	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:04	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:04	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	62-133	SW846 8260B		10/9/11 21:04	DD	A
4-Bromofluorobenzene (S)	86.4		%	79-114	SW846 8260B		10/9/11 21:04	DD	A
Dibromofluoromethane (S)	102		%	78-116	SW846 8260B		10/9/11 21:04	DD	A
Toluene-d8 (S)	109		%	76-127	SW846 8260B		10/9/11 21:04	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334030**
Sample ID: **0258-0926-SW3**

Date Collected: 9/27/2011 08:03
Date Received: 9/29/2011 16:10

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:36	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:36	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:36	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/9/11 21:36	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/9/11 21:36	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:36	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/9/11 21:36	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:36	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/9/11 21:36	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	62-133	SW846 8260B		10/9/11 21:36	DD	A
4-Bromofluorobenzene (S)	85.6		%	79-114	SW846 8260B		10/9/11 21:36	DD	A
Dibromofluoromethane (S)	104		%	78-116	SW846 8260B		10/9/11 21:36	DD	A
Toluene-d8 (S)	112		%	76-127	SW846 8260B		10/9/11 21:36	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334031**
Sample ID: **0258-0926-FB1**

Date Collected: 9/26/2011 15:50
Date Received: 9/29/2011 16:10

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/7/11 13:55	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 13:55	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 13:55	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/7/11 13:55	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/7/11 13:55	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/7/11 13:55	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/7/11 13:55	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 13:55	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 13:55	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B		10/7/11 13:55	TMP	A
4-Bromofluorobenzene (S)	123	10	%	79-114	SW846 8260B		10/7/11 13:55	TMP	A
Dibromofluoromethane (S)	105		%	78-116	SW846 8260B		10/7/11 13:55	TMP	A
Toluene-d8 (S)	120		%	76-127	SW846 8260B		10/7/11 13:55	TMP	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334032**
Sample ID: **0258-0926-FB2**

Date Collected: 9/27/2011 15:50
Date Received: 9/29/2011 16:10

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/11/11 14:22	DJB	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/11/11 14:22	DJB	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/11/11 14:22	DJB	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/11/11 14:22	DJB	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/11/11 14:22	DJB	B
Toluene	ND		ug/L	1.0	SW846 8260B		10/11/11 14:22	DJB	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/11/11 14:22	DJB	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/11/11 14:22	DJB	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/11/11 14:22	DJB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	78.9		%	62-133	SW846 8260B		10/11/11 14:22	DJB	B
4-Bromofluorobenzene (S)	92.9		%	79-114	SW846 8260B		10/11/11 14:22	DJB	B
Dibromofluoromethane (S)	76.2	11	%	78-116	SW846 8260B		10/11/11 14:22	DJB	B
Toluene-d8 (S)	94		%	76-127	SW846 8260B		10/11/11 14:22	DJB	B

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

 Lab ID: **9929334033**
 Sample ID: **0258-0926-FB3**

 Date Collected: 9/28/2011 16:05
 Date Received: 9/29/2011 16:10

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/10/11 04:56	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/10/11 04:56	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/10/11 04:56	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/10/11 04:56	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/10/11 04:56	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/10/11 04:56	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/10/11 04:56	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/10/11 04:56	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/10/11 04:56	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.1		%	62-133	SW846 8260B		10/10/11 04:56	DD	A
4-Bromofluorobenzene (S)	94.3		%	79-114	SW846 8260B		10/10/11 04:56	DD	A
Dibromofluoromethane (S)	79.1		%	78-116	SW846 8260B		10/10/11 04:56	DD	A
Toluene-d8 (S)	92.7		%	76-127	SW846 8260B		10/10/11 04:56	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9929334 27058

Lab ID: **9929334034**
Sample ID: **0258-0926-OW4**

Date Collected: 9/26/2011 14:55
Date Received: 9/29/2011 16:10

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:36	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:36	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:36	TMP	A
Methyl t-Butyl Ether	7.0		ug/L	1.0	SW846 8260B		10/7/11 19:36	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/7/11 19:36	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:36	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/7/11 19:36	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:36	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/7/11 19:36	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81.9		%	62-133	SW846 8260B		10/7/11 19:36	TMP	A
4-Bromofluorobenzene (S)	95.7		%	79-114	SW846 8260B		10/7/11 19:36	TMP	A
Dibromofluoromethane (S)	81.7		%	78-116	SW846 8260B		10/7/11 19:36	TMP	A
Toluene-d8 (S)	91.8		%	76-127	SW846 8260B		10/7/11 19:36	TMP	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9929334 27058

PARAMETER QUALIFIERS\FLAGS

- [1] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 62.4 and the control limits were 78 to 116. This result was reported at a dilution of 5.
- [2] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 77.1 and the control limits were 78 to 116. This result was reported at a dilution of 50.
- [3] The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 56.3 and the control limits were 62 to 133. This result was reported at a dilution of 5.
- [4] The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 73.8 and the control limits were 76 to 127. This result was reported at a dilution of 5.
- [5] The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 78.7 and the control limits were 79 to 114. This result was reported at a dilution of 5.
- [6] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 64.2 and the control limits were 78 to 116. This result was reported at a dilution of 50.
- [7] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 76.1 and the control limits were 78 to 116. This result was reported at a dilution of 500.
- [8] The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 54.8 and the control limits were 62 to 133. This result was reported at a dilution of 50.
- [9] The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 72.1 and the control limits were 79 to 114. This result was reported at a dilution of 50.
- [10] The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 123 and the control limits were 79 to 114. This result was reported at a dilution of 1.
- [11] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 76.2 and the control limits were 78 to 116. This result was reported at a dilution of 1.

ALS Environmental Laboratory Locations Across North AmericaCanada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



Page 1 of 5
 Counter: **FED EX AKX**
 Tracking #: **9554839488**

CHAIN OF CUSTODY!
REQUEST FOR ANALYSIS
 (CONSIDER THIS AS A MUST BE COMPLETED BY THE CLIENT)
 (SAMPLE INSTRUCTIONS ON THE CASE)

Co. Name: **PENNSYLVANIA TECTONICS INC** Phone: **570-487-1959**
 Contact person: **MARTIN GILGALLON**
 Address: **826 MAIN STREET PECKVILLE PA 18452**

ALS Environmental | 34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Project Name#: **27058** ALS Quote #: _____
 TAT: Normal Standard (TAT is 10-17 business days).
 Rush Subject to ALS approval and surcharges. Approved By: _____

Email: **PATECTONICS@HOTMAIL.COM**

Bill to (if different than Project No): _____ PO#: _____

Enter Number of Containers Per Analysis

Sample No.	Sample Description/Location	COC Comments	Sample Date	Military Time
1	058-0926-mw15		9/26/11	1315
2	058-0926-mw25		9/27/11	0838
3	058-0926-mw35		9/27/11	0915
4	058-0926-mw45		9/28/11	1546
5	058-0926-mw55		9/28/11	1234
6	058-0926-mw65		9/28/11	1360
7	058-0926-mw75		9/28/11	0957
8	058-0926-mw85		9/28/11	1316

Container Type: **CG**
 Size: **60ML**
 Preparation: **H41**

ANALYSES/METHOD REQUESTED

Container No. (if different than Project No): _____

Notes: **ENTERED GASOLINE NEW LIST**

Correct containers? (N) (Y)
 Correct sample volume? (N) (Y)
 Correct preservation? (N) (Y)
 Headspace/Volatiles? (N) (Y)
 Container in good condition? (N) (Y)

State Sampler Delivered by: MP MJ RT PA

Standard Form: Standard Q.P. like Not Reduced No-Full

State Sampler Form: Yes No

ALS FIELD SERVICES: Flare Labor Composite Sampling Field Equipment Other

1000 Criteria Required: _____

Relinquished By / Company Name: **Karin Cucora**

Received By / Company Name: **ALS**

Date	Time	Date	Time
9/28/11	1002	9/28/11	1002
9/28/11		9/28/11	1002

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHARED AREAS MUST BE COMPLETED BY THE CLIENT. SUPPLIER INSTRUCTIONS ON THE BACK

Customer: **Pen-Tec**
 Tracking #: **8755-0829-6873**

Count: **FEED-EXALS**
 Part #: **9929334**

Co. Name: **PENNSYLVANIA TECTONICS INC** Phone: **570-487-1959**
 Contact (per us): **MARTIN GILGALLON**
 Address: **826 MAIN STREET PECKVILLE PA 18452**

Project Name #: **27058** ALS Quote #: _____ Date Required: _____ Approved By: _____

TAT: Normal-Standard TAT is 10 business days. Rush-Subject to ALS approval and surcharges.

Email: **TECTONICS@HOTMAIL.COM**

Sample Description/Location (as it will appear on the lab report):

Sample No.	Sample Date	Military Time	COG Comments
1	9/26/11	0940	66W 2
2	9/28/11	0950	66W 2
3	9/28/11	1020	66W 2
4	9/28/11	1005	66W 2
5	9/28/11	1526	66W 2
6	9/27/11	0829	66W 2
7	9/27/11	0943	66W 2
8	9/27/11	1210	66W 2

Relinquished By / Company Name: **Kevin Cooper**
 Date / Time: **9/28/11 1003**
 Received By / Company Name: **ALS**
 Date / Time: **9/29/11 1610**

ANALYSIS METHOD REQUESTED: _____

Enter Number of Containers Per Analysis: _____

NEED LIST

UNLADDED CASSETTE

Container Mark: _____

Container Type: **CG**

Container Size: **40ML**

Preservative: **HCl**

Therm. ID: **TRUC**

No. of Containers: _____

Notes: _____

ALS FIELD SERVICES

Correct container? (if present) Soak intact? Custody seals present?

Received on cool? Correct preservation? Correct sample volume?

Headspace/volatil? Containers in good condition?

Other: Piping Labx Composites Sampling Rinsed Equipment Other

Logos: WHITE - ORIGINAL, GRAY - CUSTOMER COPY

* G-Glass, C-C containers

** Lids: A-ALC, C-Drinking Water, O-Drinking Water, O-Other Liquids, S-Storage, S-Soil, W-White, W-White/Black

** Container Type: AG-Ambic Glass, CG-Clear Glass, PL-Plastic, Container Size: 20ml, 40ml, 1L, 20L, etc. Preservative: HCl, HNO3, NADA, etc.

Per 62011

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
 State Certifications: CT PH-0224, DE ID 11, GA 914, MA PA0102, MD 128, LA 04162, VA 421, WY EPA Region 8, WV 343

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS

ALL SHADDED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Page 5 of 5
 Order: **FED-EX**
 Tracking #: **8755-6837-4673**

ANALYSIS METHOD REQUESTED

Container	GG
Type	40L
Volume	40L
Restriction	HKI

Enter Number of Containers Per Analysis

1	058-0926-FB3	9-28-11	1003	G	DT	2
2	058-0926-0254	9-26-11	1455	G	6W	2
3						
4						
5						
6						
7						
8						

CO. Name: Pennsylvania Tectonics Inc.
Contact: Martin Gilgallon
Address: 826 Main Street, Pottsville PA 18952
Phone: 717-487-1959

Project Name#: 27058
ALS# Quote #:

DATE REQUIRED: [Blank]
APPROVED BY: [Signature]

EMAIL: PAITectonics@hotmail.com

RECEIPT INFORMATION: [Blank]

RECEIVED BY / COMPANY NAME: Kevin Cucuba
DATE / TIME: 9-29-11 1003
RECEIVED BY / COMPANY NAME: [Signature]
DATE / TIME: 9-29-11 1610

ALS FIELD SERVICES:

Labels complete/accurate? Y
 Received on tag? Y
 Correct sample volume? Y
 Custody seals present? Y

Groundwater Sampling Analytical Data Sheets

November 9, 10 & 11, 2011

November 25, 2011

Mr. Marty Gilgallon
PA Tectonics
826 Main Street
Peckville, PA 18452

Certificate of Analysis

Project Name: LEWIS BROTHERS - PA SITE	Workorder: 9937204
Purchase Order:	Workorder ID: 27058 Lewis Bros

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 12, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9937204 27058 Lewis Bros

Discard Date: 12/09/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9937204001	058-1109-MW1S	Ground Water	11/9/11 10:38	11/12/11 09:10	Customer
9937204002	058-1109-MW2S	Ground Water	11/9/11 11:32	11/12/11 09:10	Customer
9937204003	058-1109-MW3S	Ground Water	11/9/11 10:05	11/12/11 09:10	Customer
9937204004	058-1109-MW4S	Ground Water	11/9/11 11:34	11/12/11 09:10	Customer
9937204005	058-1109-MW5S	Ground Water	11/9/11 10:57	11/12/11 09:10	Customer
9937204006	058-1109-MW6S	Ground Water	11/9/11 09:21	11/12/11 09:10	Customer
9937204007	058-1109-MW7S	Ground Water	11/9/11 09:17	11/12/11 09:10	Customer
9937204008	058-1109-MW8S	Ground Water	11/9/11 13:30	11/12/11 09:10	Customer
9937204009	058-1109-MW9S	Ground Water	11/10/11 08:33	11/12/11 09:10	Customer
9937204010	058-1109-MW10S	Ground Water	11/10/11 14:49	11/12/11 09:10	Customer
9937204011	058-1109-MW11S	Ground Water	11/10/11 15:53	11/12/11 09:10	Customer
9937204012	058-1109-MW12S	Ground Water	11/10/11 11:05	11/12/11 09:10	Customer
9937204013	058-1109-MW13S	Ground Water	11/9/11 13:25	11/12/11 09:10	Customer
9937204014	058-1109-MW14S	Ground Water	11/10/11 12:13	11/12/11 09:10	Customer
9937204015	058-1109-MW15S	Ground Water	11/9/11 15:51	11/12/11 09:10	Customer
9937204016	058-1109-MW16S	Ground Water	11/9/11 15:35	11/12/11 09:10	Customer
9937204017	058-1109-MW17S	Ground Water	11/10/11 10:17	11/12/11 09:10	Customer
9937204018	058-1109-MW1d	Ground Water	11/10/11 15:15	11/12/11 09:10	Customer
9937204019	058-1109-MW2d	Ground Water	11/10/11 15:45	11/12/11 09:10	Customer
9937204020	058-1109-MW6d	Ground Water	11/10/11 14:53	11/12/11 09:10	Customer
9937204021	058-1109-MW7d	Ground Water	11/11/11 08:00	11/12/11 09:10	Customer
9937204022	058-1109-MW8d	Ground Water	11/9/11 09:20	11/12/11 09:10	Customer
9937204023	058-1109-MW9d	Ground Water	11/9/11 08:11	11/12/11 09:10	Customer
9937204024	058-1109-MW10d	Ground Water	11/9/11 13:05	11/12/11 09:10	Customer
9937204025	058-1109-MW11d	Ground Water	11/9/11 14:01	11/12/11 09:10	Customer
9937204026	058-1109-MW12d	Ground Water	11/9/11 11:33	11/12/11 09:10	Customer
9937204027	058-1109-MW13d	Ground Water	11/9/11 10:26	11/12/11 09:10	Customer
9937204028	058-1109-FB1	Ground Water	11/9/11 15:00	11/12/11 09:10	Customer
9937204029	058-1109-FB2	Ground Water	11/10/11 12:00	11/12/11 09:10	Customer
9937204030	058-1109-FB3	Ground Water	11/10/11 16:30	11/12/11 09:10	Customer
9937204031	058-1109-SW1	Ground Water	11/9/11 09:32	11/12/11 09:10	Customer
9937204032	058-1109-SW2	Ground Water	11/9/11 09:36	11/12/11 09:10	Customer
9937204033	058-1109-SW3	Ground Water	11/9/11 09:40	11/12/11 09:10	Customer

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9937204 27058 Lewis Bros

Discard Date: 12/09/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9937204034	058-1109-OW4	Ground Water	11/9/11 12:08	11/12/11 09:10	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204001**
Sample ID: **058-1109-MW1S**

Date Collected: 11/9/2011 10:38
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/19/11 18:41	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/19/11 18:41	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/19/11 18:41	MES	A
Methyl t-Butyl Ether	21.9		ug/L	1.0	SW846 8260B		11/19/11 18:41	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/19/11 18:41	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/19/11 18:41	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/19/11 18:41	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/19/11 18:41	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/19/11 18:41	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	115		%	62-133	SW846 8260B		11/19/11 18:41	MES	A
4-Bromofluorobenzene (S)	89.2		%	79-114	SW846 8260B		11/19/11 18:41	MES	A
Dibromofluoromethane (S)	102		%	78-116	SW846 8260B		11/19/11 18:41	MES	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B		11/19/11 18:41	MES	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204002**
Sample ID: **058-1109-MW2S**

Date Collected: 11/9/2011 11:32
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	3810		ug/L	50.0	SW846 8260B		11/19/11 20:21	MES	A
Ethylbenzene	2280		ug/L	50.0	SW846 8260B		11/19/11 20:21	MES	A
Isopropylbenzene	205		ug/L	50.0	SW846 8260B		11/19/11 20:21	MES	A
Methyl t-Butyl Ether	709		ug/L	50.0	SW846 8260B		11/19/11 20:21	MES	A
Naphthalene	662		ug/L	100	SW846 8260B		11/19/11 20:21	MES	A
Toluene	7760		ug/L	50.0	SW846 8260B		11/19/11 20:21	MES	A
Total Xylenes	12900		ug/L	150	SW846 8260B		11/19/11 20:21	MES	A
1,2,4-Trimethylbenzene	3680		ug/L	50.0	SW846 8260B		11/19/11 20:21	MES	A
1,3,5-Trimethylbenzene	1020		ug/L	50.0	SW846 8260B		11/19/11 20:21	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.8		%	62-133	SW846 8260B		11/19/11 20:21	MES	A
4-Bromofluorobenzene (S)	82.8		%	79-114	SW846 8260B		11/19/11 20:21	MES	A
Dibromofluoromethane (S)	94.2		%	78-116	SW846 8260B		11/19/11 20:21	MES	A
Toluene-d8 (S)	106		%	76-127	SW846 8260B		11/19/11 20:21	MES	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204003**
Sample ID: **058-1109-MW3S**

Date Collected: 11/9/2011 10:05
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	7380		ug/L	50.0	SW846 8260B		11/19/11 19:48	MES	A
Ethylbenzene	1730		ug/L	50.0	SW846 8260B		11/19/11 19:48	MES	A
Isopropylbenzene	177		ug/L	50.0	SW846 8260B		11/19/11 19:48	MES	A
Methyl t-Butyl Ether	748		ug/L	50.0	SW846 8260B		11/19/11 19:48	MES	A
Naphthalene	486		ug/L	100	SW846 8260B		11/19/11 19:48	MES	A
Toluene	15200		ug/L	250	SW846 8260B		11/21/11 17:58	JAH	A
Total Xylenes	11200		ug/L	150	SW846 8260B		11/19/11 19:48	MES	A
1,2,4-Trimethylbenzene	3050		ug/L	50.0	SW846 8260B		11/19/11 19:48	MES	A
1,3,5-Trimethylbenzene	695		ug/L	50.0	SW846 8260B		11/19/11 19:48	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62-133	SW846 8260B		11/19/11 19:48	MES	A
4-Bromofluorobenzene (S)	85.7		%	79-114	SW846 8260B		11/19/11 19:48	MES	A
Dibromofluoromethane (S)	96.7		%	78-116	SW846 8260B		11/19/11 19:48	MES	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		11/19/11 19:48	MES	A
1,2-Dichloroethane-d4 (S)	117		%	62-133	SW846 8260B		11/21/11 17:58	JAH	A
4-Bromofluorobenzene (S)	91.7		%	79-114	SW846 8260B		11/21/11 17:58	JAH	A
Dibromofluoromethane (S)	102		%	78-116	SW846 8260B		11/21/11 17:58	JAH	A
Toluene-d8 (S)	117		%	76-127	SW846 8260B		11/21/11 17:58	JAH	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204004**
Sample ID: **058-1109-MW4S**

Date Collected: 11/9/2011 11:34
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	112		ug/L	5.0	SW846 8260B		11/19/11 19:14	MES	A
Ethylbenzene	514		ug/L	5.0	SW846 8260B		11/19/11 19:14	MES	A
Isopropylbenzene	79.4		ug/L	5.0	SW846 8260B		11/19/11 19:14	MES	A
Methyl t-Butyl Ether	130		ug/L	5.0	SW846 8260B		11/19/11 19:14	MES	A
Naphthalene	56.5		ug/L	10.0	SW846 8260B		11/19/11 19:14	MES	A
Toluene	27.3		ug/L	5.0	SW846 8260B		11/19/11 19:14	MES	A
Total Xylenes	281		ug/L	15.0	SW846 8260B		11/19/11 19:14	MES	A
1,2,4-Trimethylbenzene	332		ug/L	5.0	SW846 8260B		11/19/11 19:14	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B		11/19/11 19:14	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62-133	SW846 8260B		11/19/11 19:14	MES	A
4-Bromofluorobenzene (S)	81		%	79-114	SW846 8260B		11/19/11 19:14	MES	A
Dibromofluoromethane (S)	98		%	78-116	SW846 8260B		11/19/11 19:14	MES	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		11/19/11 19:14	MES	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204005**
Sample ID: **058-1109-MW5S**

Date Collected: 11/9/2011 10:57
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:29	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:29	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:29	CPK	A
Methyl t-Butyl Ether	41.1		ug/L	1.0	SW846 8260B		11/20/11 13:29	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 13:29	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:29	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 13:29	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:29	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:29	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.8		%	62-133	SW846 8260B		11/20/11 13:29	CPK	A
4-Bromofluorobenzene (S)	96.1		%	79-114	SW846 8260B		11/20/11 13:29	CPK	A
Dibromofluoromethane (S)	91.1		%	78-116	SW846 8260B		11/20/11 13:29	CPK	A
Toluene-d8 (S)	96.6		%	76-127	SW846 8260B		11/20/11 13:29	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204006**
Sample ID: **058-1109-MW6S**

Date Collected: 11/9/2011 09:21
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	180		ug/L	1.0	SW846 8260B		11/20/11 12:45	CPK	A
Ethylbenzene	14.8		ug/L	1.0	SW846 8260B		11/20/11 12:45	CPK	A
Isopropylbenzene	2.0		ug/L	1.0	SW846 8260B		11/20/11 12:45	CPK	A
Methyl t-Butyl Ether	13.7		ug/L	1.0	SW846 8260B		11/20/11 12:45	CPK	A
Naphthalene	2.6		ug/L	2.0	SW846 8260B		11/20/11 12:45	CPK	A
Toluene	2.9		ug/L	1.0	SW846 8260B		11/20/11 12:45	CPK	A
Total Xylenes	13.5		ug/L	3.0	SW846 8260B		11/20/11 12:45	CPK	A
1,2,4-Trimethylbenzene	10.8		ug/L	1.0	SW846 8260B		11/20/11 12:45	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:45	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92		%	62-133	SW846 8260B		11/20/11 12:45	CPK	A
4-Bromofluorobenzene (S)	95.8		%	79-114	SW846 8260B		11/20/11 12:45	CPK	A
Dibromofluoromethane (S)	88.6		%	78-116	SW846 8260B		11/20/11 12:45	CPK	A
Toluene-d8 (S)	98.2		%	76-127	SW846 8260B		11/20/11 12:45	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204007**
Sample ID: **058-1109-MW7S**

Date Collected: 11/9/2011 09:17
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:00	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:00	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:00	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 12:00	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 12:00	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:00	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 12:00	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:00	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:00	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	93.4		%	62-133	SW846 8260B		11/20/11 12:00	CPK	A
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B		11/20/11 12:00	CPK	A
Dibromofluoromethane (S)	87		%	78-116	SW846 8260B		11/20/11 12:00	CPK	A
Toluene-d8 (S)	97.6		%	76-127	SW846 8260B		11/20/11 12:00	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204008**
Sample ID: **058-1109-MW8S**

Date Collected: 11/9/2011 13:30
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:19	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:19	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:19	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 15:19	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 15:19	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:19	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 15:19	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:19	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:19	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.2		%	62-133	SW846 8260B		11/20/11 15:19	CPK	A
4-Bromofluorobenzene (S)	95.7		%	79-114	SW846 8260B		11/20/11 15:19	CPK	A
Dibromofluoromethane (S)	91.8		%	78-116	SW846 8260B		11/20/11 15:19	CPK	A
Toluene-d8 (S)	98.1		%	76-127	SW846 8260B		11/20/11 15:19	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

 Lab ID: **9937204009**
 Sample ID: **058-1109-MW9S**

 Date Collected: 11/10/2011 08:33
 Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:48	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:48	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:48	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 16:48	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 16:48	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:48	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 16:48	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:48	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:48	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.5		%	62-133	SW846 8260B		11/20/11 16:48	CPK	A
4-Bromofluorobenzene (S)	92.8		%	79-114	SW846 8260B		11/20/11 16:48	CPK	A
Dibromofluoromethane (S)	87.3		%	78-116	SW846 8260B		11/20/11 16:48	CPK	A
Toluene-d8 (S)	97.7		%	76-127	SW846 8260B		11/20/11 16:48	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

 Lab ID: **9937204010**
 Sample ID: **058-1109-MW10S**

 Date Collected: 11/10/2011 14:49
 Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 20:29	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 20:29	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 20:29	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 20:29	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 20:29	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 20:29	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 20:29	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 20:29	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 20:29	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.6		%	62-133	SW846 8260B		11/20/11 20:29	CPK	A
4-Bromofluorobenzene (S)	96.4		%	79-114	SW846 8260B		11/20/11 20:29	CPK	A
Dibromofluoromethane (S)	93.4		%	78-116	SW846 8260B		11/20/11 20:29	CPK	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		11/20/11 20:29	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

 Lab ID: **9937204011**

Date Collected: 11/10/2011 15:53

Matrix: Ground Water

 Sample ID: **058-1109-MW11S**

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	724		ug/L	20.0	SW846 8260B		11/22/11 10:12	DD	A
Ethylbenzene	764		ug/L	20.0	SW846 8260B		11/22/11 10:12	DD	A
Isopropylbenzene	65.3		ug/L	1.0	SW846 8260B		11/20/11 20:09	CPK	A
Methyl t-Butyl Ether	44.7		ug/L	1.0	SW846 8260B		11/20/11 20:09	CPK	A
Naphthalene	80.6		ug/L	2.0	SW846 8260B		11/20/11 20:09	CPK	A
Toluene	254		ug/L	20.0	SW846 8260B		11/22/11 10:12	DD	A
Total Xylenes	2370		ug/L	60.0	SW846 8260B		11/22/11 10:12	DD	A
1,2,4-Trimethylbenzene	806		ug/L	20.0	SW846 8260B		11/22/11 10:12	DD	A
1,3,5-Trimethylbenzene	245		ug/L	20.0	SW846 8260B		11/22/11 10:12	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	88.4		%	62-133	SW846 8260B		11/20/11 20:09	CPK	A
4-Bromofluorobenzene (S)	88.9		%	79-114	SW846 8260B		11/20/11 20:09	CPK	A
Dibromofluoromethane (S)	87.5		%	78-116	SW846 8260B		11/20/11 20:09	CPK	A
Toluene-d8 (S)	112		%	76-127	SW846 8260B		11/20/11 20:09	CPK	A
1,2-Dichloroethane-d4 (S)	108		%	62-133	SW846 8260B		11/22/11 10:12	DD	A
4-Bromofluorobenzene (S)	81.6		%	79-114	SW846 8260B		11/22/11 10:12	DD	A
Dibromofluoromethane (S)	92.3		%	78-116	SW846 8260B		11/22/11 10:12	DD	A
Toluene-d8 (S)	97.2		%	76-127	SW846 8260B		11/22/11 10:12	DD	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: 9937204012

Date Collected: 11/10/2011 11:05

Matrix: Ground Water

Sample ID: 058-1109-MW12S

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	266		ug/L	5.0	SW846 8260B		11/22/11 09:38	DD	A
Ethylbenzene	53.2		ug/L	1.0	SW846 8260B		11/20/11 20:07	CPK	A
Isopropylbenzene	6.6		ug/L	1.0	SW846 8260B		11/20/11 20:07	CPK	A
Methyl t-Butyl Ether	51.4		ug/L	1.0	SW846 8260B		11/20/11 20:07	CPK	A
Naphthalene	2.3		ug/L	2.0	SW846 8260B		11/20/11 20:07	CPK	A
Toluene	10.3		ug/L	1.0	SW846 8260B		11/20/11 20:07	CPK	A
Total Xylenes	38.5		ug/L	3.0	SW846 8260B		11/20/11 20:07	CPK	A
1,2,4-Trimethylbenzene	6.6		ug/L	1.0	SW846 8260B		11/20/11 20:07	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 20:07	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		11/20/11 20:07	CPK	A
4-Bromofluorobenzene (S)	95.8		%	79-114	SW846 8260B		11/20/11 20:07	CPK	A
Dibromofluoromethane (S)	93.1		%	78-116	SW846 8260B		11/20/11 20:07	CPK	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		11/20/11 20:07	CPK	A
1,2-Dichloroethane-d4 (S)	111		%	62-133	SW846 8260B		11/22/11 09:38	DD	A
4-Bromofluorobenzene (S)	86.5		%	79-114	SW846 8260B		11/22/11 09:38	DD	A
Dibromofluoromethane (S)	96.4		%	78-116	SW846 8260B		11/22/11 09:38	DD	A
Toluene-d8 (S)	100		%	76-127	SW846 8260B		11/22/11 09:38	DD	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204013**

Date Collected: 11/9/2011 13:25

Matrix: Ground Water

Sample ID: **058-1109-MW13S**

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:57	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:57	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:57	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 14:57	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 14:57	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:57	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 14:57	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:57	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:57	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.8		%	62-133	SW846 8260B		11/20/11 14:57	CPK	A
4-Bromofluorobenzene (S)	95.7		%	79-114	SW846 8260B		11/20/11 14:57	CPK	A
Dibromofluoromethane (S)	87.6		%	78-116	SW846 8260B		11/20/11 14:57	CPK	A
Toluene-d8 (S)	97.2		%	76-127	SW846 8260B		11/20/11 14:57	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: 9937204014

Date Collected: 11/10/2011 12:13

Matrix: Ground Water

Sample ID: 058-1109-MW14S

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:45	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:45	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:45	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 19:45	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 19:45	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:45	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 19:45	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:45	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:45	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62-133	SW846 8260B		11/20/11 19:45	CPK	A
4-Bromofluorobenzene (S)	96.2		%	79-114	SW846 8260B		11/20/11 19:45	CPK	A
Dibromofluoromethane (S)	97.2		%	78-116	SW846 8260B		11/20/11 19:45	CPK	A
Toluene-d8 (S)	102		%	76-127	SW846 8260B		11/20/11 19:45	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: 9937204015

Date Collected: 11/9/2011 15:51

Matrix: Ground Water

Sample ID: 058-1109-MW15S

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:00	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:00	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:00	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 19:00	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 19:00	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:00	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 19:00	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:00	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:00	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.2		%	62-133	SW846 8260B		11/20/11 19:00	CPK	A
4-Bromofluorobenzene (S)	94.8		%	79-114	SW846 8260B		11/20/11 19:00	CPK	A
Dibromofluoromethane (S)	91.7		%	78-116	SW846 8260B		11/20/11 19:00	CPK	A
Toluene-d8 (S)	99.7		%	76-127	SW846 8260B		11/20/11 19:00	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: 9937204016

Date Collected: 11/9/2011 15:35

Matrix: Ground Water

Sample ID: 058-1109-MW16S

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:38	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:38	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:38	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 18:38	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 18:38	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:38	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 18:38	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:38	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:38	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	93.8		%	62-133	SW846 8260B		11/20/11 18:38	CPK	A
4-Bromofluorobenzene (S)	99		%	79-114	SW846 8260B		11/20/11 18:38	CPK	A
Dibromofluoromethane (S)	90.7		%	78-116	SW846 8260B		11/20/11 18:38	CPK	A
Toluene-d8 (S)	102		%	76-127	SW846 8260B		11/20/11 18:38	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: 9937204017

Date Collected: 11/10/2011 10:17

Matrix: Ground Water

Sample ID: 058-1109-MW17S

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:23	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:23	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:23	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 19:23	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 19:23	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:23	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 19:23	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:23	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:23	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.1		%	62-133	SW846 8260B		11/20/11 19:23	CPK	A
4-Bromofluorobenzene (S)	99		%	79-114	SW846 8260B		11/20/11 19:23	CPK	A
Dibromofluoromethane (S)	91.3		%	78-116	SW846 8260B		11/20/11 19:23	CPK	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		11/20/11 19:23	CPK	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204018**
Sample ID: **058-1109-MW1d**

Date Collected: 11/10/2011 15:15
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:21	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:21	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:21	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 18:21	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 18:21	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:21	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 18:21	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:21	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:21	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	119		%	62-133	SW846 8260B		11/20/11 18:21	CPK	A
4-Bromofluorobenzene (S)	86.5		%	79-114	SW846 8260B		11/20/11 18:21	CPK	A
Dibromofluoromethane (S)	108		%	78-116	SW846 8260B		11/20/11 18:21	CPK	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B		11/20/11 18:21	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204019**
Sample ID: **058-1109-MW2d**

Date Collected: 11/10/2011 15:45
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	25.4		ug/L	1.0	SW846 8260B		11/20/11 19:28	CPK	A
Ethylbenzene	46.3		ug/L	1.0	SW846 8260B		11/20/11 19:28	CPK	A
Isopropylbenzene	6.1		ug/L	1.0	SW846 8260B		11/20/11 19:28	CPK	A
Methyl t-Butyl Ether	9.2		ug/L	1.0	SW846 8260B		11/20/11 19:28	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 19:28	CPK	A
Toluene	4.2		ug/L	1.0	SW846 8260B		11/20/11 19:28	CPK	A
Total Xylenes	10.3		ug/L	3.0	SW846 8260B		11/20/11 19:28	CPK	A
1,2,4-Trimethylbenzene	4.8		ug/L	1.0	SW846 8260B		11/20/11 19:28	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:28	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	118		%	62-133	SW846 8260B		11/20/11 19:28	CPK	A
4-Bromofluorobenzene (S)	85.2		%	79-114	SW846 8260B		11/20/11 19:28	CPK	A
Dibromofluoromethane (S)	102		%	78-116	SW846 8260B		11/20/11 19:28	CPK	A
Toluene-d8 (S)	102		%	76-127	SW846 8260B		11/20/11 19:28	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204020**
Sample ID: **058-1109-MW6d**

Date Collected: 11/10/2011 14:53
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:10	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:10	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:10	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 17:10	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 17:10	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:10	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 17:10	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:10	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:10	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	93.9		%	62-133	SW846 8260B		11/20/11 17:10	CPK	A
4-Bromofluorobenzene (S)	90.7		%	79-114	SW846 8260B		11/20/11 17:10	CPK	A
Dibromofluoromethane (S)	89.7		%	78-116	SW846 8260B		11/20/11 17:10	CPK	A
Toluene-d8 (S)	95.8		%	76-127	SW846 8260B		11/20/11 17:10	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204021**
Sample ID: **058-1109-MW7d**

Date Collected: 11/11/2011 08:00
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:54	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:54	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:54	CPK	A
Methyl t-Butyl Ether	23.3		ug/L	1.0	SW846 8260B		11/20/11 18:54	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 18:54	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:54	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 18:54	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:54	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:54	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	117		%	62-133	SW846 8260B		11/20/11 18:54	CPK	A
4-Bromofluorobenzene (S)	86.3		%	79-114	SW846 8260B		11/20/11 18:54	CPK	A
Dibromofluoromethane (S)	104		%	78-116	SW846 8260B		11/20/11 18:54	CPK	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B		11/20/11 18:54	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

 Lab ID: **9937204022**
 Sample ID: **058-1109-MW8d**

 Date Collected: 11/9/2011 09:20
 Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:22	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:22	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:22	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 12:22	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 12:22	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:22	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 12:22	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:22	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 12:22	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.3		%	62-133	SW846 8260B		11/20/11 12:22	CPK	A
4-Bromofluorobenzene (S)	97.5		%	79-114	SW846 8260B		11/20/11 12:22	CPK	A
Dibromofluoromethane (S)	88.8		%	78-116	SW846 8260B		11/20/11 12:22	CPK	A
Toluene-d8 (S)	99		%	76-127	SW846 8260B		11/20/11 12:22	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204023**
Sample ID: **058-1109-MW9d**

Date Collected: 11/9/2011 08:11
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 11:38	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 11:38	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 11:38	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 11:38	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 11:38	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 11:38	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 11:38	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 11:38	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 11:38	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.7		%	62-133	SW846 8260B		11/20/11 11:38	CPK	A
4-Bromofluorobenzene (S)	94.1		%	79-114	SW846 8260B		11/20/11 11:38	CPK	A
Dibromofluoromethane (S)	87.6		%	78-116	SW846 8260B		11/20/11 11:38	CPK	A
Toluene-d8 (S)	99.7		%	76-127	SW846 8260B		11/20/11 11:38	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: 9937204024

Date Collected: 11/9/2011 13:05

Matrix: Ground Water

Sample ID: 058-1109-MW10d

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:35	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:35	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:35	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 14:35	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 14:35	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:35	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 14:35	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:35	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:35	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	91		%	62-133	SW846 8260B		11/20/11 14:35	CPK	A
4-Bromofluorobenzene (S)	96.1		%	79-114	SW846 8260B		11/20/11 14:35	CPK	A
Dibromofluoromethane (S)	88.4		%	78-116	SW846 8260B		11/20/11 14:35	CPK	A
Toluene-d8 (S)	99.7		%	76-127	SW846 8260B		11/20/11 14:35	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: 9937204025

Date Collected: 11/9/2011 14:01

Matrix: Ground Water

Sample ID: 058-1109-MW11d

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:41	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:41	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:41	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 15:41	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 15:41	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:41	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 15:41	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:41	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 15:41	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.2		%	62-133	SW846 8260B		11/20/11 15:41	CPK	A
4-Bromofluorobenzene (S)	97		%	79-114	SW846 8260B		11/20/11 15:41	CPK	A
Dibromofluoromethane (S)	91		%	78-116	SW846 8260B		11/20/11 15:41	CPK	A
Toluene-d8 (S)	97.6		%	76-127	SW846 8260B		11/20/11 15:41	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: 9937204026

Date Collected: 11/9/2011 11:33

Matrix: Ground Water

Sample ID: 058-1109-MW12d

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	17.6		ug/L	1.0	SW846 8260B		11/20/11 13:51	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:51	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:51	CPK	A
Methyl t-Butyl Ether	7.9		ug/L	1.0	SW846 8260B		11/20/11 13:51	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 13:51	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:51	CPK	A
Total Xylenes	4.4		ug/L	3.0	SW846 8260B		11/20/11 13:51	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:51	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:51	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.4		%	62-133	SW846 8260B		11/20/11 13:51	CPK	A
4-Bromofluorobenzene (S)	99		%	79-114	SW846 8260B		11/20/11 13:51	CPK	A
Dibromofluoromethane (S)	90.8		%	78-116	SW846 8260B		11/20/11 13:51	CPK	A
Toluene-d8 (S)	98.7		%	76-127	SW846 8260B		11/20/11 13:51	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: 9937204027

Date Collected: 11/9/2011 10:26

Matrix: Ground Water

Sample ID: 058-1109-MW13d

Date Received: 11/12/2011 09:10

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:07	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:07	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:07	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 13:07	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 13:07	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:07	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 13:07	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:07	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 13:07	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.3		%	62-133	SW846 8260B		11/20/11 13:07	CPK	A
4-Bromofluorobenzene (S)	93.8		%	79-114	SW846 8260B		11/20/11 13:07	CPK	A
Dibromofluoromethane (S)	87.1		%	78-116	SW846 8260B		11/20/11 13:07	CPK	A
Toluene-d8 (S)	97.1		%	76-127	SW846 8260B		11/20/11 13:07	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204028**
Sample ID: **058-1109-FB1**

Date Collected: 11/9/2011 15:00
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:03	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:03	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:03	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 16:03	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 16:03	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:03	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 16:03	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:03	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:03	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.4		%	62-133	SW846 8260B		11/20/11 16:03	CPK	A
4-Bromofluorobenzene (S)	96.1		%	79-114	SW846 8260B		11/20/11 16:03	CPK	A
Dibromofluoromethane (S)	88.1		%	78-116	SW846 8260B		11/20/11 16:03	CPK	A
Toluene-d8 (S)	100		%	76-127	SW846 8260B		11/20/11 16:03	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204029**
Sample ID: **058-1109-FB2**

Date Collected: 11/10/2011 12:00
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:26	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:26	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:26	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 16:26	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 16:26	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:26	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 16:26	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:26	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 16:26	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.2		%	62-133	SW846 8260B		11/20/11 16:26	CPK	A
4-Bromofluorobenzene (S)	95.5		%	79-114	SW846 8260B		11/20/11 16:26	CPK	A
Dibromofluoromethane (S)	85.4		%	78-116	SW846 8260B		11/20/11 16:26	CPK	A
Toluene-d8 (S)	97.8		%	76-127	SW846 8260B		11/20/11 16:26	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

 Lab ID: **9937204030**
 Sample ID: **058-1109-FB3**

 Date Collected: 11/10/2011 16:30
 Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:36	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:36	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:36	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 19:36	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 19:36	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:36	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 19:36	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:36	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 19:36	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	116		%	62-133	SW846 8260B		11/20/11 19:36	CPK	A
4-Bromofluorobenzene (S)	87.1		%	79-114	SW846 8260B		11/20/11 19:36	CPK	A
Dibromofluoromethane (S)	101		%	78-116	SW846 8260B		11/20/11 19:36	CPK	A
Toluene-d8 (S)	115		%	76-127	SW846 8260B		11/20/11 19:36	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204031**
Sample ID: **058-1109-SW1**

Date Collected: 11/9/2011 09:32
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:32	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:32	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:32	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 17:32	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 17:32	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:32	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 17:32	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:32	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:32	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.2		%	62-133	SW846 8260B		11/20/11 17:32	CPK	A
4-Bromofluorobenzene (S)	92.2		%	79-114	SW846 8260B		11/20/11 17:32	CPK	A
Dibromofluoromethane (S)	89.3		%	78-116	SW846 8260B		11/20/11 17:32	CPK	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B		11/20/11 17:32	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

Lab ID: **9937204032**
Sample ID: **058-1109-SW2**

Date Collected: 11/9/2011 09:36
Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:54	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:54	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:54	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 17:54	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 17:54	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:54	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 17:54	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:54	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 17:54	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.9		%	62-133	SW846 8260B		11/20/11 17:54	CPK	A
4-Bromofluorobenzene (S)	91.5		%	79-114	SW846 8260B		11/20/11 17:54	CPK	A
Dibromofluoromethane (S)	88.7		%	78-116	SW846 8260B		11/20/11 17:54	CPK	A
Toluene-d8 (S)	98.6		%	76-127	SW846 8260B		11/20/11 17:54	CPK	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

 Lab ID: **9937204033**
 Sample ID: **058-1109-SW3**

 Date Collected: 11/9/2011 09:40
 Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:16	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:16	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:16	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		11/20/11 18:16	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 18:16	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:16	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 18:16	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:16	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 18:16	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.7		%	62-133	SW846 8260B		11/20/11 18:16	CPK	A
4-Bromofluorobenzene (S)	93.1		%	79-114	SW846 8260B		11/20/11 18:16	CPK	A
Dibromofluoromethane (S)	95.3		%	78-116	SW846 8260B		11/20/11 18:16	CPK	A
Toluene-d8 (S)	102		%	76-127	SW846 8260B		11/20/11 18:16	CPK	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9937204 27058 Lewis Bros

 Lab ID: **9937204034**
 Sample ID: **058-1109-OW4**

 Date Collected: 11/9/2011 12:08
 Date Received: 11/12/2011 09:10

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:13	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:13	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:13	CPK	A
Methyl t-Butyl Ether	769		ug/L	5.0	SW846 8260B		11/23/11 05:18	JAH	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		11/20/11 14:13	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:13	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		11/20/11 14:13	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:13	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		11/20/11 14:13	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.3		%	62-133	SW846 8260B		11/20/11 14:13	CPK	A
4-Bromofluorobenzene (S)	91.4		%	79-114	SW846 8260B		11/20/11 14:13	CPK	A
Dibromofluoromethane (S)	87.6		%	78-116	SW846 8260B		11/20/11 14:13	CPK	A
Toluene-d8 (S)	98.5		%	76-127	SW846 8260B		11/20/11 14:13	CPK	A
1,2-Dichloroethane-d4 (S)	90.1		%	62-133	SW846 8260B		11/23/11 05:18	JAH	B
4-Bromofluorobenzene (S)	92.8		%	79-114	SW846 8260B		11/23/11 05:18	JAH	B
Dibromofluoromethane (S)	93.7		%	78-116	SW846 8260B		11/23/11 05:18	JAH	B
Toluene-d8 (S)	115		%	76-127	SW846 8260B		11/23/11 05:18	JAH	B

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

UNLABELED AREAS MUST BE COVERED BY AN EQUIVED CAPPER - INSTRUCTIONS ON THE BAGS

Page 1 of 5
 Center: RD-14
 Tracking #: 8747-0992-103

ALS Environmental
 Ship to: 34 Dogwood Lane ■ Middletown, PA 17057 ■ 717-944-5541 ■ Fax: 717-944-1430

Co. Name: PENNSYLVANIA TECTONICS INC.
 Contact (Report to): MARTIN GILGALLON Phone: 570-487-1959
 Address: 820 MAIN STREET PECKVILLE PA 18452

Project Name #: 27058 LEWIS BROS ALS Quote #:
 Deno Required: _____ Approved By: _____
 Email: X PATECTONICS@HOTMAIL.COM
 Fax: Y No.:

Bill to (if different than report to):
 PO#: _____

ANALYSIS METHOD REQUESTED

Container Type: CC
 Container Size: 40ml
 Preservation: HCL

Enter Number of Containers Per Analysis

Sample No.	Sample Date	Military Time	COC Comments
1	11-9-11	1038	66W 2
2	11-9-11	1132	66W 2
3	11-9-11	1605	66W 2
4	11-9-11	1134	66W 2
5	11-9-11	1057	66W 2
6	11-9-11	0721	66W 2
7	11-10-11	0917	66W 2
8	11-10-11	1330	66W 2

UNLABELED GASOLINE
NEW LIST

ALS FIELD SERVICES

Container in good condition? Y N

COC Labels complete/accurate? Y N

Received on heat? Y N

(If present) Seals intact? Y N

Correct seals present? Y N

Correct sample volume? Y N

Correct preservation? Y N

Headspace/voluntar? Y N

Correctly appropriate Y or N: _____

ALS FIELD SERVICES:
 Pickup Lab Composite Sampling Rental Equipment Other:

DATA DELIVERABLES

Standard: X CLP-90 N/A-90 N/A-F-01

SWM: Form 16 Form 16A Form 16B Form 16C Form 16D Form 16E Form 16F Form 16G Form 16H Form 16I Form 16J Form 16K Form 16L Form 16M Form 16N Form 16O Form 16P Form 16Q Form 16R Form 16S Form 16T Form 16U Form 16V Form 16W Form 16X Form 16Y Form 16Z

Other: Other: _____

RECEIVED BY / COMPANY NAME

Date: 11-11-11 Time: 1300
 Date: 11-11-11 Time: 1300
 Date: 11-11-11 Time: 1300
 Date: 11-11-11 Time: 1300

RECEIVED BY / COMPANY NAME: K. Cucora

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Page 2 of 5
 Courier: FedEx
 Tracking #: 917-6192-7443

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SAMPLES MUST BE COMPLETELY RE-CLOSED IMMEDIATELY UPON THE END

ALS Environmental
 34 Dogwood Lane ■ Middletown, PA 17057 ■ 717 944-5541 ■ Fax: 717 944-1430

Co. Name: PENNSYLVANIA TECTONICS INC
 Contact (operator): MARTIN GILGALLON Phone: 570-487-1959
 Address: 824 MAIN STREET
 PECKVILLE PA 18452

Project Name#: 27058 LEWIS BRAS ALS Quote #:
 TAT: Normal Standard TAT in 10 business days. Date Required:
 Rush Subject to ALS approval and surcharges. Approved By:

Email: Y N PATECTONICS@HOTMAIL.COM
 Fax: Y N

Bill to (if different from Request):

PO#: _____

ANALYSES/METHOD REQUESTED

Container	Type	Volume	Size	Preservative	Matrix	Enter Number of Containers Per Analysis
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2
CG	60ml	60ml	2	None	UNLABELED GASOLINE	2

Sample	Date	Military Time	COC Comments	Sample Description/Location
1058-1109-mw19S	11.10.11	0833	660 2	UNLABELED GASOLINE
2058-1109-mw10S	11.10.11	1449	660 2	UNLABELED GASOLINE
3058-1109-mw11S	11.10.11	1553	660 2	UNLABELED GASOLINE
4058-1109-mw12S	11.10.11	1105	660 2	UNLABELED GASOLINE
5058-1109-mw13S	11.9.11	1325	660 2	UNLABELED GASOLINE
6058-1109-mw14S	11.10.11	1213	660 2	UNLABELED GASOLINE
7058-1109-mw15S	11.9.11	1551	660 2	UNLABELED GASOLINE
8058-1109-mw16S	11.9.11	1535	660 2	UNLABELED GASOLINE

LOGGED BY (Signature): *[Signature]* 11/14/11
 REVIEWED BY (Signature): *[Signature]* 11/14/11

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<i>[Signature]</i>	11.11.11	1300	<i>[Signature]</i>	11/11/11	1300
<i>[Signature]</i>			<i>[Signature]</i>	11/25/11	12510

Receipt Information (Completed by ALS):
 Received by: *[Signature]*
 Date: 11/14/11
 Cooler Temp: 52
 Therm. ID: 7423

Notes:

Correct containers?	<input checked="" type="checkbox"/> Y	Correct sample volume?	<input checked="" type="checkbox"/> Y
Correct preservation?	<input checked="" type="checkbox"/> Y	Correct preservation?	<input checked="" type="checkbox"/> Y
Headspace/air?	<input checked="" type="checkbox"/> Y	Container in good condition?	<input checked="" type="checkbox"/> Y

ALS FIELD SERVICES:
 Pickup
 Labor
 Composite Sampling
 Rental Equipment
 Other

Matrix: Aqueous, Drinking Water, Groundwater, Oil, Other Liquid, Solid, Sediment, Soil, Wastewater
 Container Type: 60-ml Glass, 60-ml Plastic, 100-ml Glass, 100-ml Plastic, 200-ml Glass, 200-ml Plastic, 500-ml Glass, 500-ml Plastic, 1L, etc. etc. Preservative: HCl, HNO3, H2O2, etc.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SAMPLES MUST BE COMPLETED BY THE CLIENT
SAMPLER (INSTRUCTIONS ON THE BACK)

Project Name: **27058 Lewis BRGS** ALS Quote #: _____
 Date Required: _____ Approved By: _____

TAT: Normal Standard TAT + 10 business days.
 Rush Subject to ALS approval and surcharge.

Email: **pratectonics@hotmail.com**
 Fax: _____

Co. Name: **PENNSYLVANIA TECTONICS INC**
 Contact Name: **MARTIN GILBOLL** Phone: **570-487-1959**
 Address: **826 MAIN STREET
PECKVILLE PA 18452**

Bill To (if different from above): _____ PO#: _____

Page 3 of 5
 Order: **FID-18**
 Tracking #: **2747-0192-7412**

9937204

RECEIPT (Fingerprint)
 Container No. _____
 Date: _____
 Collector: _____
 Thermo ID: **1745**
 No. of Containers: _____
 NOTES: _____

Correct containers?	<input checked="" type="checkbox"/>	Correct sample volume?	<input checked="" type="checkbox"/>	Correct preservation?	<input checked="" type="checkbox"/>	Headspace/volatiles?	<input checked="" type="checkbox"/>	Container in good condition?	<input checked="" type="checkbox"/>	Crete appropriate Y or N.	<input checked="" type="checkbox"/>
---------------------	-------------------------------------	------------------------	-------------------------------------	-----------------------	-------------------------------------	----------------------	-------------------------------------	------------------------------	-------------------------------------	---------------------------	-------------------------------------

Container Type	Container Size	Preservative	Enter Number of Containers Per Analysis	Sample Date	Military Time	COC Comments	Received By / Company Name	Date	Time
CG	40ml	HCl	2	11-08-11	1017	6602	<i>[Signature]</i>	11/11/11	1300
CG	40ml	HCl	2	11-10-11	1515	6602	<i>[Signature]</i>	11/11/11	1300
CG	40ml	HCl	2	11-10-11	1545	6602	<i>[Signature]</i>	11/11/11	1300
CG	40ml	HCl	2	11-10-11	1453	6602	<i>[Signature]</i>	11/11/11	1300
CG	40ml	HCl	2	11-11-11	0900	6602	<i>[Signature]</i>	11/11/11	1300
CG	40ml	HCl	2	11-9-11	0920	6602	<i>[Signature]</i>	11/11/11	1300
CG	40ml	HCl	2	11-9-11	0811	6602	<i>[Signature]</i>	11/11/11	1300
CG	40ml	HCl	2	11-9-11	1305	6602	<i>[Signature]</i>	11/11/11	1300

LOGGED BY: *[Signature]* REVIEWED BY: *[Signature]*

LOGGED BY (Please Print)	Date	Time	Received By / Company Name	Date	Time
<i>[Signature]</i>	11-11-11	1300	<i>[Signature]</i>	11/11/11	1300

ALS FIELD SERVICES

Container in good condition?

COCLABEL COMPLIANT?

RECEIVED IN LOT?

(IF PRESENT) SEALS INTACT?

CUSTODY SEALS PRESENT?

ALS FIELD SERVICES: P/Buy Lab Composite Sampling Rental Equipment Other

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



ALS Environmental
 Ship to: 34 Dogwood Lane ■ Middletown, PA 17057 ■ 717-944-5541 ■ Fax: 717-944-1430

Co. Name: PENNSYLVANIA TECTONICS INC
Contact (Person): MARTIN GILGALLON Phone: 576-487-1959
Address: 826 MAIN STREET
PECKVILLE PA 18452

Bill to (if different than report to):
 PO#: _____

Project Name: **21058 Lewis Bros** ALS Quote #: _____
 Y/N: Home/Standard TAT (1-10 business days) Date Required: _____
 Rush-Subject to ALS approval and surcharge. Approved By: _____

Email: Y **PATECTONICS@hotmail.com**
 Fax? Y No: _____

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS
 ALL SAMPLES MUST BE COLLECTED BY THE COMPANY SALES/ COLLECTIONS OF THE BOOK

Container Type: **CG**
 Container Size: **400L**
 Preservative: **HCl**

ANALYSES METHOD REQUESTED: _____

Enter Number of Containers Per Analysis

Sample	Date	Comments	COG	Comments	Sample Date	Military Time
1	058-1109-mw11d				11-9-11	1401
2	058-1109-mw12d				11-9-11	1133
3	058-1109-mw13d				11-9-11	1026
4	058-1109-FB1				11-9-11	1500
5	058-1109-FB2				11-10-11	1200
6	058-1109-FB3				11-10-11	1630
7	058-1109-Sw1				11-9-11	0932
8	058-1109-Sw2				11-9-11	0936

LOGGED BY (signature): *[Signature]* Date: **11/14/11**
 REVIEWED BY (signature): *[Signature]*

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<i>[Signature]</i>	11-11-11	1300	<i>[Signature]</i>	11/11/11	1300
<i>[Signature]</i>			<i>[Signature]</i>	11/2/11	910

Receipt Information
 Labels by Sub-Function: *[Initials]*
 Corrected Containers: *[Initials]*
 Correct sample volumes: *[Initials]*
 Received on lot: *[Initials]*
 Labels by sub-function: *[Initials]*
 Correct preservation: *[Initials]*
 Headspace/overfill: *[Initials]*
 Corrected Containers: *[Initials]*
 Containers in good condition: *[Initials]*

ALS FIELD SERVICES
 Pickup
 Labor
 Compress Sampling
 Rental Equipment
 Other

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Page 5 of 5
 Counter: **FD-16**
 Tracking #: **8767-0498-7443**

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SAMPLES MUST BE COLLECTED BY A QUALIFIED PERSONNEL IN ACCORDANCE WITH THE INSTRUCTIONS ON THE BAGS

ALS Environmental
 34 Dogwood Lane ■ Middletown, PA 17057 ■ 717-944-5541 ■ Fax: 717-944-1430

Co Name: Pennsylvania Tectonics
Contact (person): Martin Gligallon
Address: 826 MAIN STREET
 Pottsville PA 18452
Phone: 570-487-1939
PO#:

Project Name#: Z 905B Lewis Bros
ALS Quote #:
TAT: Normal/Standard TAT is 10 business days. **Date Required:**
 Rush Subject to ALS approval and surcharges. **Approved By:**
Email: **Y:** **N:**
Fax: **Y:** **N:**

Sample Description/Location	CDC Comments	Sample Date	Military Time
1 05B - 1109 - SW3		11-9-11	0946
2 05B - 1109 - SW4		11-9-11	1208
3			
4			
5			
6			
7			
8			

Container	Type	Volume	Size	Preservative	Enter Number of Containers Per Analysis
CG	CG	40ml		HCl	2
					2

LOGGED BY (Signature)	REVIEWED BY (Signature)	Date	Time	Received By / Company Name	Date	Time
<i>K. Cucura</i>	<i>[Signature]</i>	11-11-11	1300	<i>[Signature]</i>	11/11/11	1300

SAMPLED BY (Please Print): K. Cucura
REQUISITIONED BY / COMPANY NAME: Pennsylvania Tectonics
DATE: 11/11/11
TIME: 1300
RECEIVED BY / COMPANY NAME: [Signature]
DATE: 11/11/11
TIME: 1300

RECEIPT INFORMATION
 Corrected containers? Y N
 Correct sample volumes? Y N
 Correct preservation? Y N
 Headspace/Vol? Y N
 COC labels complete/correct? Y N
 Container in good condition? Y N
 (If present) Seals intact? Y N
 ALS FIELD SERVICES: Pickup Labor Composites Sampling Rental Equipment Other

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Groundwater Sampling Analytical Data Sheets

June 12, 13 & 14, 2012

June 26, 2012

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name: LEWIS BROTHERS - PA SITE	Workorder: 9973122
Purchase Order:	Workorder ID: 27058/Lewis Brothers

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Friday, June 15, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9973122 27058/Lewis Brothers

Discard Date: 07/10/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9973122001	058-0612-MW1S	Ground Water	6/12/12 14:23	6/15/12 19:27	Customer
9973122002	058-0612-MW2S	Ground Water	6/12/12 15:30	6/15/12 19:27	Customer
9973122003	058-0612-MW3S	Ground Water	6/12/12 15:00	6/15/12 19:27	Customer
9973122004	058-0612-MW4S	Ground Water	6/14/12 15:27	6/15/12 19:27	Customer
9973122005	058-0612-MW5S	Ground Water	6/12/12 13:30	6/15/12 19:27	Customer
9973122006	058-0612-MW7S	Ground Water	6/12/12 10:14	6/15/12 19:27	Customer
9973122007	058-0612-MW6S	Ground Water	6/12/12 14:12	6/15/12 19:27	Customer
9973122008	058-0612-MW8S	Ground Water	6/14/12 10:25	6/15/12 19:27	Customer
9973122009	058-0612-MW9S	Ground Water	6/12/12 11:25	6/15/12 19:27	Customer
9973122010	058-0612-MW10S	Ground Water	6/14/12 13:21	6/15/12 19:27	Customer
9973122011	058-0612-MW11S	Ground Water	6/14/12 14:25	6/15/12 19:27	Customer
9973122012	058-0612-MW12S	Ground Water	6/13/12 12:22	6/15/12 19:27	Customer
9973122013	058-0612-MW13S	Ground Water	6/13/12 11:17	6/15/12 19:27	Customer
9973122014	058-0612-MW14S	Ground Water	6/14/12 11:51	6/15/12 19:27	Customer
9973122015	058-0612-MW15S	Ground Water	6/13/12 10:55	6/15/12 19:27	Customer
9973122016	058-0612-MW16S	Ground Water	6/13/12 11:04	6/15/12 19:27	Customer
9973122017	058-0612-MW17S	Ground Water	6/14/12 09:24	6/15/12 19:27	Customer
9973122018	058-0612-MW1d	Ground Water	6/14/12 07:15	6/15/12 19:27	Customer
9973122019	058-0612-MW2d	Ground Water	6/14/12 07:46	6/15/12 19:27	Customer
9973122020	058-0612-MW6d	Ground Water	6/14/12 07:25	6/15/12 19:27	Customer
9973122021	058-0612-MW7d	Ground Water	6/14/12 15:00	6/15/12 19:27	Customer
9973122022	058-0612-MW8d	Ground Water	6/13/12 08:04	6/15/12 19:27	Customer
9973122023	058-0612-MW9d	Ground Water	6/13/12 09:17	6/15/12 19:27	Customer
9973122024	058-0612-MW10d	Ground Water	6/13/12 13:42	6/15/12 19:27	Customer
9973122025	058-0612-MW11d	Ground Water	6/13/12 14:50	6/15/12 19:27	Customer
9973122026	058-0612-MW12d	Ground Water	6/13/12 12:24	6/15/12 19:27	Customer
9973122027	058-0612-MW13d	Ground Water	6/13/12 10:57	6/15/12 19:27	Customer
9973122028	058-0612-FB1	Ground Water	6/12/12 15:40	6/15/12 19:27	Customer
9973122029	058-0612-FB2	Ground Water	6/13/12 16:45	6/15/12 19:27	Customer
9973122030	058-0612-FB3	Ground Water	6/14/12 15:35	6/15/12 19:27	Customer
9973122031	058-0612-OW3	Ground Water	6/12/12 14:10	6/15/12 19:27	Customer

Workorder Comments:

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 9973122 27058/Lewis Brothers

Discard Date: 07/10/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
--------	-----------	--------	----------------	---------------	--------------

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122001**

Date Collected: 6/12/2012 14:23

Matrix: Ground Water

Sample ID: **058-0612-MW1S**

Date Received: 6/15/2012 19:27

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:10	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:10	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:10	DD	A
Methyl t-Butyl Ether	3.0		ug/L	1.0	SW846 8260B		6/22/12 08:10	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/22/12 08:10	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:10	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/22/12 08:10	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:10	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:10	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	91.4		%	62-133	SW846 8260B		6/22/12 08:10	DD	A
4-Bromofluorobenzene (S)	79.3		%	79-114	SW846 8260B		6/22/12 08:10	DD	A
Dibromofluoromethane (S)	89.5		%	78-116	SW846 8260B		6/22/12 08:10	DD	A
Toluene-d8 (S)	80.7		%	76-127	SW846 8260B		6/22/12 08:10	DD	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122002**
Sample ID: **058-0612-MW2S**

Date Collected: 6/12/2012 15:30
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	3250		ug/L	50.0	SW846 8260B		6/22/12 09:16	DD	B
Ethylbenzene	2770		ug/L	50.0	SW846 8260B		6/22/12 09:16	DD	B
Isopropylbenzene	250		ug/L	50.0	SW846 8260B		6/22/12 09:16	DD	B
Methyl t-Butyl Ether	971		ug/L	50.0	SW846 8260B		6/22/12 09:16	DD	B
Naphthalene	888		ug/L	100	SW846 8260B		6/22/12 09:16	DD	B
Toluene	8650		ug/L	50.0	SW846 8260B		6/22/12 09:16	DD	B
Total Xylenes	14500		ug/L	150	SW846 8260B		6/22/12 09:16	DD	B
1,2,4-Trimethylbenzene	5160		ug/L	50.0	SW846 8260B		6/22/12 09:16	DD	B
1,3,5-Trimethylbenzene	1460		ug/L	50.0	SW846 8260B		6/22/12 09:16	DD	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.3		%	62-133	SW846 8260B		6/22/12 09:16	DD	B
4-Bromofluorobenzene (S)	79		%	79-114	SW846 8260B		6/22/12 09:16	DD	B
Dibromofluoromethane (S)	87.5		%	78-116	SW846 8260B		6/22/12 09:16	DD	B
Toluene-d8 (S)	80.9		%	76-127	SW846 8260B		6/22/12 09:16	DD	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122003**
Sample ID: **058-0612-MW3S**

Date Collected: 6/12/2012 15:00
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	4680		ug/L	50.0	SW846 8260B		6/22/12 09:39	DD	A
Ethylbenzene	1150		ug/L	50.0	SW846 8260B		6/22/12 09:39	DD	A
Isopropylbenzene	97.6		ug/L	50.0	SW846 8260B		6/22/12 09:39	DD	A
Methyl t-Butyl Ether	850		ug/L	50.0	SW846 8260B		6/22/12 09:39	DD	A
Naphthalene	461		ug/L	100	SW846 8260B		6/22/12 09:39	DD	A
Toluene	8940		ug/L	50.0	SW846 8260B		6/22/12 09:39	DD	A
Total Xylenes	7570		ug/L	150	SW846 8260B		6/22/12 09:39	DD	A
1,2,4-Trimethylbenzene	1920		ug/L	50.0	SW846 8260B		6/22/12 09:39	DD	A
1,3,5-Trimethylbenzene	450		ug/L	50.0	SW846 8260B		6/22/12 09:39	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	91.4		%	62-133	SW846 8260B		6/22/12 09:39	DD	A
4-Bromofluorobenzene (S)	80		%	79-114	SW846 8260B		6/22/12 09:39	DD	A
Dibromofluoromethane (S)	88		%	78-116	SW846 8260B		6/22/12 09:39	DD	A
Toluene-d8 (S)	80.1		%	76-127	SW846 8260B		6/22/12 09:39	DD	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122004**
Sample ID: **058-0612-MW4S**

Date Collected: 6/14/2012 15:27
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	82.9		ug/L	5.0	SW846 8260B		6/24/12 04:48	DD	A
Ethylbenzene	376		ug/L	5.0	SW846 8260B		6/24/12 04:48	DD	A
Isopropylbenzene	52.8		ug/L	5.0	SW846 8260B		6/24/12 04:48	DD	A
Methyl t-Butyl Ether	537		ug/L	5.0	SW846 8260B		6/24/12 04:48	DD	A
Naphthalene	57.2		ug/L	10.0	SW846 8260B		6/24/12 04:48	DD	A
Toluene	33.9		ug/L	5.0	SW846 8260B		6/24/12 04:48	DD	A
Total Xylenes	355		ug/L	15.0	SW846 8260B		6/24/12 04:48	DD	A
1,2,4-Trimethylbenzene	316		ug/L	5.0	SW846 8260B		6/24/12 04:48	DD	A
1,3,5-Trimethylbenzene	25.5		ug/L	5.0	SW846 8260B		6/24/12 04:48	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86		%	62-133	SW846 8260B		6/24/12 04:48	DD	A
4-Bromofluorobenzene (S)	90		%	79-114	SW846 8260B		6/24/12 04:48	DD	A
Dibromofluoromethane (S)	84		%	78-116	SW846 8260B		6/24/12 04:48	DD	A
Toluene-d8 (S)	88.5		%	76-127	SW846 8260B		6/24/12 04:48	DD	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122005**
Sample ID: **058-0612-MW5S**

Date Collected: 6/12/2012 13:30
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/22/12 07:47	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 07:47	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 07:47	DD	A
Methyl t-Butyl Ether	8.4		ug/L	1.0	SW846 8260B		6/22/12 07:47	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/22/12 07:47	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/22/12 07:47	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/22/12 07:47	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 07:47	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 07:47	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.2		%	62-133	SW846 8260B		6/22/12 07:47	DD	A
4-Bromofluorobenzene (S)	78.8	1	%	79-114	SW846 8260B		6/22/12 07:47	DD	A
Dibromofluoromethane (S)	88.7		%	78-116	SW846 8260B		6/22/12 07:47	DD	A
Toluene-d8 (S)	80.2		%	76-127	SW846 8260B		6/22/12 07:47	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122006**
Sample ID: **058-0612-MW7S**

Date Collected: 6/12/2012 10:14
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:52	DD	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:52	DD	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:52	DD	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 00:52	DD	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 00:52	DD	B
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:52	DD	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 00:52	DD	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:52	DD	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:52	DD	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97		%	62-133	SW846 8260B		6/23/12 00:52	DD	B
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B		6/23/12 00:52	DD	B
Dibromofluoromethane (S)	92.9		%	78-116	SW846 8260B		6/23/12 00:52	DD	B
Toluene-d8 (S)	99		%	76-127	SW846 8260B		6/23/12 00:52	DD	B

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122007**
Sample ID: **058-0612-MW6S**

Date Collected: 6/12/2012 14:12
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	11.9		ug/L	1.0	SW846 8260B		6/23/12 01:16	DD	B
Ethylbenzene	1.4		ug/L	1.0	SW846 8260B		6/23/12 01:16	DD	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:16	DD	B
Methyl t-Butyl Ether	1.3		ug/L	1.0	SW846 8260B		6/23/12 01:16	DD	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 01:16	DD	B
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:16	DD	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 01:16	DD	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:16	DD	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:16	DD	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.3		%	62-133	SW846 8260B		6/23/12 01:16	DD	B
4-Bromofluorobenzene (S)	100		%	79-114	SW846 8260B		6/23/12 01:16	DD	B
Dibromofluoromethane (S)	92		%	78-116	SW846 8260B		6/23/12 01:16	DD	B
Toluene-d8 (S)	98		%	76-127	SW846 8260B		6/23/12 01:16	DD	B

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122008**
Sample ID: **058-0612-MW8S**

Date Collected: 6/14/2012 10:25
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:07	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:07	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:07	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 22:07	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 22:07	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:07	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 22:07	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:07	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:07	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.6		%	62-133	SW846 8260B		6/23/12 22:07	DD	A
4-Bromofluorobenzene (S)	89.1		%	79-114	SW846 8260B		6/23/12 22:07	DD	A
Dibromofluoromethane (S)	86.3		%	78-116	SW846 8260B		6/23/12 22:07	DD	A
Toluene-d8 (S)	88.2		%	76-127	SW846 8260B		6/23/12 22:07	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122009**
Sample ID: **058-0612-MW9S**

Date Collected: 6/12/2012 11:25
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:02	DRS	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:02	DRS	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:02	DRS	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/22/12 18:02	DRS	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/22/12 18:02	DRS	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:02	DRS	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/22/12 18:02	DRS	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:02	DRS	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:02	DRS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		6/22/12 18:02	DRS	A
4-Bromofluorobenzene (S)	87.7		%	79-114	SW846 8260B		6/22/12 18:02	DRS	A
Dibromofluoromethane (S)	103		%	78-116	SW846 8260B		6/22/12 18:02	DRS	A
Toluene-d8 (S)	90.3		%	76-127	SW846 8260B		6/22/12 18:02	DRS	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

 Lab ID: **9973122010**
 Sample ID: **058-0612-MW10S**

 Date Collected: 6/14/2012 13:21
 Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	2.4		ug/L	1.0	SW846 8260B		6/23/12 22:29	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:29	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:29	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 22:29	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 22:29	DD	A
Toluene	3.3		ug/L	1.0	SW846 8260B		6/23/12 22:29	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 22:29	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:29	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:29	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85.1		%	62-133	SW846 8260B		6/23/12 22:29	DD	A
4-Bromofluorobenzene (S)	88.9		%	79-114	SW846 8260B		6/23/12 22:29	DD	A
Dibromofluoromethane (S)	83.5		%	78-116	SW846 8260B		6/23/12 22:29	DD	A
Toluene-d8 (S)	86.4		%	76-127	SW846 8260B		6/23/12 22:29	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122011**

Date Collected: 6/14/2012 14:25

Matrix: Ground Water

Sample ID: **058-0612-MW11S**

Date Received: 6/15/2012 19:27

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	483		ug/L	5.0	SW846 8260B		6/24/12 05:10	DD	A
Ethylbenzene	637		ug/L	5.0	SW846 8260B		6/24/12 05:10	DD	A
Isopropylbenzene	49.7		ug/L	5.0	SW846 8260B		6/24/12 05:10	DD	A
Methyl t-Butyl Ether	45.2		ug/L	5.0	SW846 8260B		6/24/12 05:10	DD	A
Naphthalene	105		ug/L	10.0	SW846 8260B		6/24/12 05:10	DD	A
Toluene	211		ug/L	5.0	SW846 8260B		6/24/12 05:10	DD	A
Total Xylenes	1890		ug/L	15.0	SW846 8260B		6/24/12 05:10	DD	A
1,2,4-Trimethylbenzene	547		ug/L	5.0	SW846 8260B		6/24/12 05:10	DD	A
1,3,5-Trimethylbenzene	168		ug/L	5.0	SW846 8260B		6/24/12 05:10	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87		%	62-133	SW846 8260B		6/24/12 05:10	DD	A
4-Bromofluorobenzene (S)	88.2		%	79-114	SW846 8260B		6/24/12 05:10	DD	A
Dibromofluoromethane (S)	83.3		%	78-116	SW846 8260B		6/24/12 05:10	DD	A
Toluene-d8 (S)	87.8		%	76-127	SW846 8260B		6/24/12 05:10	DD	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

 Lab ID: **9973122012**
 Sample ID: **058-0612-MW12S**

 Date Collected: 6/13/2012 12:22
 Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/24/12 04:25	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 04:25	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 04:25	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/24/12 04:25	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/24/12 04:25	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/24/12 04:25	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/24/12 04:25	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 04:25	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 04:25	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.1		%	62-133	SW846 8260B		6/24/12 04:25	DD	A
4-Bromofluorobenzene (S)	90.3		%	79-114	SW846 8260B		6/24/12 04:25	DD	A
Dibromofluoromethane (S)	85.5		%	78-116	SW846 8260B		6/24/12 04:25	DD	A
Toluene-d8 (S)	86.2		%	76-127	SW846 8260B		6/24/12 04:25	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

 Lab ID: **9973122013**
 Sample ID: **058-0612-MW13S**

 Date Collected: 6/13/2012 11:17
 Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:36	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:36	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:36	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 23:36	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 23:36	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:36	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 23:36	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:36	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:36	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.4		%	62-133	SW846 8260B		6/23/12 23:36	DD	A
4-Bromofluorobenzene (S)	91.1		%	79-114	SW846 8260B		6/23/12 23:36	DD	A
Dibromofluoromethane (S)	85.5		%	78-116	SW846 8260B		6/23/12 23:36	DD	A
Toluene-d8 (S)	88.5		%	76-127	SW846 8260B		6/23/12 23:36	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122014**
Sample ID: **058-0612-MW14S**

Date Collected: 6/14/2012 11:51
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:51	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:51	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:51	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 22:51	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 22:51	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:51	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 22:51	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:51	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 22:51	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85.9		%	62-133	SW846 8260B		6/23/12 22:51	DD	A
4-Bromofluorobenzene (S)	91.2		%	79-114	SW846 8260B		6/23/12 22:51	DD	A
Dibromofluoromethane (S)	84.2		%	78-116	SW846 8260B		6/23/12 22:51	DD	A
Toluene-d8 (S)	88		%	76-127	SW846 8260B		6/23/12 22:51	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

 Lab ID: **9973122015**
 Sample ID: **058-0612-MW15S**

 Date Collected: 6/13/2012 10:55
 Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 02:03	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 02:03	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 02:03	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 02:03	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 02:03	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 02:03	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 02:03	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 02:03	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 02:03	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.1		%	62-133	SW846 8260B		6/23/12 02:03	DD	A
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B		6/23/12 02:03	DD	A
Dibromofluoromethane (S)	91.5		%	78-116	SW846 8260B		6/23/12 02:03	DD	A
Toluene-d8 (S)	98.4		%	76-127	SW846 8260B		6/23/12 02:03	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122016**
Sample ID: **058-0612-MW16S**

Date Collected: 6/13/2012 11:04
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:58	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:58	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:58	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 23:58	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 23:58	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:58	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 23:58	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:58	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:58	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86.9		%	62-133	SW846 8260B		6/23/12 23:58	DD	A
4-Bromofluorobenzene (S)	87.1		%	79-114	SW846 8260B		6/23/12 23:58	DD	A
Dibromofluoromethane (S)	84.9		%	78-116	SW846 8260B		6/23/12 23:58	DD	A
Toluene-d8 (S)	86.2		%	76-127	SW846 8260B		6/23/12 23:58	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: 9973122017

Date Collected: 6/14/2012 09:24

Matrix: Ground Water

Sample ID: 058-0612-MW17S

Date Received: 6/15/2012 19:27

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:20	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:20	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:20	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/24/12 00:20	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/24/12 00:20	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:20	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/24/12 00:20	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:20	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:20	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.3		%	62-133	SW846 8260B		6/24/12 00:20	DD	A
4-Bromofluorobenzene (S)	90.6		%	79-114	SW846 8260B		6/24/12 00:20	DD	A
Dibromofluoromethane (S)	85.5		%	78-116	SW846 8260B		6/24/12 00:20	DD	A
Toluene-d8 (S)	87.4		%	76-127	SW846 8260B		6/24/12 00:20	DD	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122018**
Sample ID: **058-0612-MW1d**

Date Collected: 6/14/2012 07:15
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:14	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:14	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:14	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 23:14	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 23:14	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:14	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 23:14	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:14	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 23:14	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.1		%	62-133	SW846 8260B		6/23/12 23:14	DD	A
4-Bromofluorobenzene (S)	91.1		%	79-114	SW846 8260B		6/23/12 23:14	DD	A
Dibromofluoromethane (S)	85.7		%	78-116	SW846 8260B		6/23/12 23:14	DD	A
Toluene-d8 (S)	87.4		%	76-127	SW846 8260B		6/23/12 23:14	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122019**
Sample ID: **058-0612-MW2d**

Date Collected: 6/14/2012 07:46
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	19.6		ug/L	1.0	SW846 8260B		6/24/12 04:03	DD	A
Ethylbenzene	50.8		ug/L	1.0	SW846 8260B		6/24/12 04:03	DD	A
Isopropylbenzene	7.3		ug/L	1.0	SW846 8260B		6/24/12 04:03	DD	A
Methyl t-Butyl Ether	6.8		ug/L	1.0	SW846 8260B		6/24/12 04:03	DD	A
Naphthalene	2.0		ug/L	2.0	SW846 8260B		6/24/12 04:03	DD	A
Toluene	6.5		ug/L	1.0	SW846 8260B		6/24/12 04:03	DD	A
Total Xylenes	33.6		ug/L	3.0	SW846 8260B		6/24/12 04:03	DD	A
1,2,4-Trimethylbenzene	19.5		ug/L	1.0	SW846 8260B		6/24/12 04:03	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 04:03	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	88.4		%	62-133	SW846 8260B		6/24/12 04:03	DD	A
4-Bromofluorobenzene (S)	89.5		%	79-114	SW846 8260B		6/24/12 04:03	DD	A
Dibromofluoromethane (S)	86.3		%	78-116	SW846 8260B		6/24/12 04:03	DD	A
Toluene-d8 (S)	88.3		%	76-127	SW846 8260B		6/24/12 04:03	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

 Lab ID: **9973122020**
 Sample ID: **058-0612-MW6d**

 Date Collected: 6/14/2012 07:25
 Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:43	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:43	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:43	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/24/12 00:43	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/24/12 00:43	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:43	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/24/12 00:43	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:43	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 00:43	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86.7		%	62-133	SW846 8260B		6/24/12 00:43	DD	A
4-Bromofluorobenzene (S)	89.8		%	79-114	SW846 8260B		6/24/12 00:43	DD	A
Dibromofluoromethane (S)	86.3		%	78-116	SW846 8260B		6/24/12 00:43	DD	A
Toluene-d8 (S)	87.2		%	76-127	SW846 8260B		6/24/12 00:43	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122021**
Sample ID: **058-0612-MW7d**

Date Collected: 6/14/2012 15:00
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/24/12 02:56	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 02:56	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 02:56	DD	A
Methyl t-Butyl Ether	13.3		ug/L	1.0	SW846 8260B		6/24/12 02:56	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/24/12 02:56	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/24/12 02:56	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/24/12 02:56	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 02:56	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 02:56	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86.4		%	62-133	SW846 8260B		6/24/12 02:56	DD	A
4-Bromofluorobenzene (S)	89.7		%	79-114	SW846 8260B		6/24/12 02:56	DD	A
Dibromofluoromethane (S)	85.8		%	78-116	SW846 8260B		6/24/12 02:56	DD	A
Toluene-d8 (S)	88.2		%	76-127	SW846 8260B		6/24/12 02:56	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122022**
Sample ID: **058-0612-MW8d**

Date Collected: 6/13/2012 08:04
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:24	DRS	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:24	DRS	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:24	DRS	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/22/12 18:24	DRS	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/22/12 18:24	DRS	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:24	DRS	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/22/12 18:24	DRS	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:24	DRS	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 18:24	DRS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		6/22/12 18:24	DRS	A
4-Bromofluorobenzene (S)	84.9		%	79-114	SW846 8260B		6/22/12 18:24	DRS	A
Dibromofluoromethane (S)	103		%	78-116	SW846 8260B		6/22/12 18:24	DRS	A
Toluene-d8 (S)	89		%	76-127	SW846 8260B		6/22/12 18:24	DRS	A

Sample Comments:

A positive residual chlorine result was detected in the preservation check for the volatile organics analysis of this sample. This may be due to the presence of residual chlorine or another oxidizing agent.



Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122023**
Sample ID: **058-0612-MW9d**

Date Collected: 6/13/2012 09:17
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:39	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:39	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:39	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 01:39	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 01:39	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:39	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 01:39	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:39	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 01:39	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.5		%	62-133	SW846 8260B		6/23/12 01:39	DD	A
4-Bromofluorobenzene (S)	99.8		%	79-114	SW846 8260B		6/23/12 01:39	DD	A
Dibromofluoromethane (S)	92		%	78-116	SW846 8260B		6/23/12 01:39	DD	A
Toluene-d8 (S)	97		%	76-127	SW846 8260B		6/23/12 01:39	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122024**
Sample ID: **058-0612-MW10d**

Date Collected: 6/13/2012 13:42
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:27	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:27	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:27	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/24/12 01:27	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/24/12 01:27	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:27	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/24/12 01:27	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:27	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:27	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86		%	62-133	SW846 8260B		6/24/12 01:27	DD	A
4-Bromofluorobenzene (S)	90.8		%	79-114	SW846 8260B		6/24/12 01:27	DD	A
Dibromofluoromethane (S)	84.9		%	78-116	SW846 8260B		6/24/12 01:27	DD	A
Toluene-d8 (S)	86.9		%	76-127	SW846 8260B		6/24/12 01:27	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: 9973122025

Date Collected: 6/13/2012 14:50

Matrix: Ground Water

Sample ID: 058-0612-MW11d

Date Received: 6/15/2012 19:27

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:50	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:50	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:50	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/24/12 01:50	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/24/12 01:50	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:50	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/24/12 01:50	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:50	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:50	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.8		%	62-133	SW846 8260B		6/24/12 01:50	DD	A
4-Bromofluorobenzene (S)	88.2		%	79-114	SW846 8260B		6/24/12 01:50	DD	A
Dibromofluoromethane (S)	85		%	78-116	SW846 8260B		6/24/12 01:50	DD	A
Toluene-d8 (S)	86.6		%	76-127	SW846 8260B		6/24/12 01:50	DD	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: 9973122026

Date Collected: 6/13/2012 12:24

Matrix: Ground Water

Sample ID: 058-0612-MW12d

Date Received: 6/15/2012 19:27

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/24/12 03:18	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 03:18	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 03:18	DD	A
Methyl t-Butyl Ether	2.3		ug/L	1.0	SW846 8260B		6/24/12 03:18	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/24/12 03:18	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/24/12 03:18	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/24/12 03:18	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 03:18	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 03:18	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.4		%	62-133	SW846 8260B		6/24/12 03:18	DD	A
4-Bromofluorobenzene (S)	89.2		%	79-114	SW846 8260B		6/24/12 03:18	DD	A
Dibromofluoromethane (S)	84.6		%	78-116	SW846 8260B		6/24/12 03:18	DD	A
Toluene-d8 (S)	86.6		%	76-127	SW846 8260B		6/24/12 03:18	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: 9973122027

Date Collected: 6/13/2012 10:57

Matrix: Ground Water

Sample ID: 058-0612-MW13d

Date Received: 6/15/2012 19:27

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:05	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:05	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:05	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/24/12 01:05	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/24/12 01:05	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:05	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/24/12 01:05	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:05	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/24/12 01:05	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.4		%	62-133	SW846 8260B		6/24/12 01:05	DD	A
4-Bromofluorobenzene (S)	88.4		%	79-114	SW846 8260B		6/24/12 01:05	DD	A
Dibromofluoromethane (S)	84.4		%	78-116	SW846 8260B		6/24/12 01:05	DD	A
Toluene-d8 (S)	87		%	76-127	SW846 8260B		6/24/12 01:05	DD	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

 Lab ID: **9973122028**
 Sample ID: **058-0612-FB1**

 Date Collected: 6/12/2012 15:40
 Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:06	DD	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:06	DD	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:06	DD	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 00:06	DD	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 00:06	DD	B
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:06	DD	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 00:06	DD	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:06	DD	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 00:06	DD	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.2		%	62-133	SW846 8260B		6/23/12 00:06	DD	B
4-Bromofluorobenzene (S)	105		%	79-114	SW846 8260B		6/23/12 00:06	DD	B
Dibromofluoromethane (S)	92.6		%	78-116	SW846 8260B		6/23/12 00:06	DD	B
Toluene-d8 (S)	100		%	76-127	SW846 8260B		6/23/12 00:06	DD	B

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122029**
Sample ID: **058-0612-FB2**

Date Collected: 6/13/2012 16:45
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:45	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:45	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:45	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 21:45	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 21:45	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:45	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 21:45	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:45	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:45	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	88		%	62-133	SW846 8260B		6/23/12 21:45	DD	A
4-Bromofluorobenzene (S)	89.7		%	79-114	SW846 8260B		6/23/12 21:45	DD	A
Dibromofluoromethane (S)	84.6		%	78-116	SW846 8260B		6/23/12 21:45	DD	A
Toluene-d8 (S)	86.4		%	76-127	SW846 8260B		6/23/12 21:45	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122030**
Sample ID: **058-0612-FB3**

Date Collected: 6/14/2012 15:35
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:22	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:22	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:22	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/23/12 21:22	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/23/12 21:22	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:22	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/23/12 21:22	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:22	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/23/12 21:22	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86.7		%	62-133	SW846 8260B		6/23/12 21:22	DD	A
4-Bromofluorobenzene (S)	89.6		%	79-114	SW846 8260B		6/23/12 21:22	DD	A
Dibromofluoromethane (S)	84.2		%	78-116	SW846 8260B		6/23/12 21:22	DD	A
Toluene-d8 (S)	88		%	76-127	SW846 8260B		6/23/12 21:22	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9973122 27058/Lewis Brothers

Lab ID: **9973122031**
Sample ID: **058-0612-OW3**

Date Collected: 6/12/2012 14:10
Date Received: 6/15/2012 19:27

Matrix: Ground Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:54	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:54	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:54	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		6/22/12 08:54	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		6/22/12 08:54	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:54	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		6/22/12 08:54	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:54	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		6/22/12 08:54	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.8		%	62-133	SW846 8260B		6/22/12 08:54	DD	A
4-Bromofluorobenzene (S)	79.8		%	79-114	SW846 8260B		6/22/12 08:54	DD	A
Dibromofluoromethane (S)	87.9		%	78-116	SW846 8260B		6/22/12 08:54	DD	A
Toluene-d8 (S)	81.4		%	76-127	SW846 8260B		6/22/12 08:54	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9973122 27058/Lewis Brothers

PARAMETER QUALIFIERS\FLAGS

- [1] The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 78.8 and the control limits were 79 to 114. This result was reported at a dilution of 1.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SAMPLES MUST BE COMPLETELY UNIDENTIFIED
 SAMPLES MUST BE STORED PROPERLY

Page 1 of 4
 Contact: _____
 Tracking #: _____

ANALYSIS/METHOD REQUESTED

Container Type: 66
 Container Size: 40-1
 Temperature: RT

Therm ID: 7725
 No. of Coolers: _____
 Notes: _____

Correct containers? Y
 Correct sample volume? Y
 Correct preservation? Y
 Headspace/Volatil? Y
 Container in good condition? Y

Sample ID	Sample Date	Military Time	Matrix	Enter Number of Containers Per Analysis	Remarks	Data Deliverables		SMA		ALS FIELD SERVICES								
						Standard	CP file	NI-Reduced	NI-Full	Print	Labor	Compass Sampling	Reprint Equipment	Other				
1 058-0612-0004	6/12/12	1423	G	2	Unleaded gas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 058-0612-0005	6/12/12	1530	G	2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 058-0612-0005R	6/12/12	1500	G	2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 058-0612-0004R	6/12/12	1527	G	2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 058-0612-0005R	6/12/12	1330	G	2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 058-0612-0004R	6/12/12	1414	G	2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 058-0612-0004R	6/12/12	1412	G	2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 058-0612-0004R	6/12/12	1025	G	2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Co. Name: Pennsylvania Testonics Inc.
 Contact Person: Mark Gilgallon
 Address: 723 Main Street
Acushnet PA 18403

Phone: 570-467-1959

PO#: _____

Project Name#: Z1058 Lewis Brothers ALS Quote #: _____
 Date Required: _____
 Approved By: _____

Normal Standard TMT is 10 business days.
 Rush-Subject to ALS approval and surcharges.

Email? Y N
 Fax? Y N

Sample Description/Location: _____
 OCC Comments: _____

SAMPLED BY (Please Print): Ray Hanley/Kevin Sacura

Relinquished By (Company Name): Ray Hanley/PA Testonics

LOGGED BY (Signature): _____
 REVENUED BY (Signature): _____

Date	Time	Received By (Company Name)	Date	Time
6/15/12	0705	2	6/15/12	0705
6/15/12	0800	4	6/15/12	0800
6/15/12	1428	6	6/15/12	1428
6/15/12	1745	8	6/15/12	1745
6/15/12	1927	10	6/15/12	1927

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Page 2 of 4
 Counter: 9973122
 Tracking #:

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALS STATE-APPROVED INSTRUMENTATION LABORATORY

Ship to: 34 Dogwood Lane ■ Middletown, PA 17057 ■ 717-944-5541 ■ Fax: 717-944-1430

Co. Name: Pennsylvania Testronics, Inc.
Contact (person to): Matthew Cifalichin
Address: 723 Main Street
 Archbald PA, 15403

Phone: 570-487-1954

PO#:

Project Name#: Z7058 / Lewis Brothers ALS Quote #:

Home/Standard TAT is 10 business days. Date Required:
 Rush. Subject to ALS approval and surcharges. Approved By:

Email? Yes No
 Fax? Yes No

Sample Description/Location: CH Green Gas

Sample ID	Sample Date	Military Time	COC Comments
1 038-0612-MW 9s	6/12/12	11:55	6 600 Z
2 038-0612-MW 10s	6/12/12	13:21	6 600 Z
3 038-0612-MW 11s	6/14/12	14:25	6 600 Z
4 038-0612-MW 12s	6/15/12	12:22	6 600 Z
5 038-0612-MW 13s	6/15/12	11:17	6 600 Z
6 038-0612-MW 14s	6/15/12	11:51	6 600 Z
7 038-0612-MW 15s	6/15/12	15:55	6 600 Z
8 038-0612-MW 16s	6/15/12	11:04	6 600 Z

LOGGED BY: ALS
 REVIEWED BY: ALS

Requisition #/Company Name	Date	Time	Received By / Company Name	Date	Time
1 Roy Hanley / PA Testronics	6/15/12	09:55	2 Roy Hanley	6/15/12	07:05
2 Roy Hanley / PA Testronics	6/15/12	08:00	4 Roy Hanley	6/16/12	8:10
3 Roy Hanley / PA Testronics	6/15/12	16:28	5 Roy Hanley	6/15/12	16:28
4 Roy Hanley / PA Testronics	6/15/12	17:45	6 Roy Hanley	6/15/12	17:45
5 Roy Hanley / PA Testronics	6/15/12	19:27	10 Roy Hanley	6/15/12	19:27

Receipt Information

Received by: ALS
 Date: 6/15/12
 Time: 11:55

Correct containers? Yes No
 Correct sample volumes? Yes No
 Correct preservation? Yes No
 Headspace/Volatility? Yes No

COI Label completed/accurate? Yes No
 Received on ice? Yes No
 (if present) Seals intact? Yes No
 Custody seals present? Yes No

Container in good condition? Yes No

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Analysis

State Sample Collected In: WA UT AZ NY PA

Form: Standard CLP-like NJ-Reduced NJ-Full

Other: Prilag Lutor Composite Sampling Reimb. Equipment Other

COPIES: WHITE - ORIGINAL CANARY - CUSTOMER COPY

* G-Grab; C-Composite
 ** Matrix: A-Matrix; D-Drinking Water; E-Security; O-Oil; G-Glass; L-Liquid; S-Solid; T-Tissue; W-Water
 *** Container Type: AG-Ambic Glass; CG-Clear Glass; PL-Plastic; Container Size: 250ml, 500ml, 1L, 5gal, etc. Preservation: RC, RHC3, NACN, etc.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
 State Certifications: CT PH-0224, DE ID 11, GA 914, MA PA0102, MD 128, LA 04162, VA 421, WY EPA Region 8, WV 343

Page 3 of 4
 Counter: 997322
 Tracking #:

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**

ALL SAMPLES MUST BE COLLECTED BY THE CLIENT
 SAMPLES MUST BE STORED AS SHOWN

Ship to: 34 Dogwood Lane ■ Middletown, PA 17057 ■ Tel: 717-944-5541 ■ Fax: 717-944-1430

Co. Name: Ramsey/Lewis Technicals Inc.

Contact (person): Martin Galloway
 Address: 723 main street
 Archbald PA 15463
 Phone: 570-487-1959

Bill to (if different than report to):

PO#:

Project Name#: Z7058/Lewis Brothers ALS Quote #:

TAT: Normal Standard TAT in 10 business days. Date Required:
 Rush-Subject to ALS approval and surcharges. Approved By:

Email? Y N
 Fax? Y N
 Address: Address.com

Sample No.	Sample Description/Location	Sample Date	Military Time	COC Comments	Enter Number of Containers Per Analysis		ALS FIELD SERVICES
					Standard	30MA	
1	058-0612 - MW 17s	6/15/12	0742	6	6	0	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
2	058-0612 - MW 1d	6/15/12	0715	6	6	0	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
3	058-0612 - MW 2d	6/15/12	0714	6	6	0	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
4	058-0612 - MW 6d	6/15/12	0716	6	6	0	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
5	058-0612 - MW 7d	6/15/12	1500	6	6	0	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
6	058-0612 - MW 8d	6/15/12	0804	6	6	0	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
7	058-0612 - MW 9d	6/15/12	0917	6	6	0	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
8	058-0612 - MW 10d	6/15/12	1342	6	6	0	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
SAMPLED BY (Please Print): <u>Roy Hanley/Kevin Cucara</u> LOGGED BY (signature): <u>[Signature]</u> REVIEWED BY (signature): <u>[Signature]</u>							
1	Ray Hanley / PA Technicals	6/15/12	0705	2	6/15/12	0705	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
2	Ray Hanley / PA Technicals	6/15/12	0800	4	6/15/12	0800	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
3	Ray Hanley / PA Technicals	6/15/12	1022	6	6/15/12	1022	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
4	Ray Hanley / PA Technicals	6/15/12	1745	8	6/15/12	1745	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter
5	Ray Hanley / PA Technicals	6/15/12	1927	10	6/15/12	1927	<input type="checkbox"/> Standard <input type="checkbox"/> COP-like <input type="checkbox"/> NI-Reduced <input type="checkbox"/> NI-Full <input type="checkbox"/> If you know type, enter

1000 Criteria Required?
 *G-Gas; C-Composite
 **Water: Air, Air-Drying, Gas; G-Composite; Drip; C-Other; Liquid; E-Storage; SP-Salt; WP-W/ps; WW-Water/water
 ***Container Type: AG-Amber Glass; CG-Glass; Glass; PL-Plastic; Container Size: 250ml, 500ml, 1L, 5oz, etc. Preservation: RCL, HNO3, NaOH, etc.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Page 4 of 4
 Courier: 9973122
 Tracking #:

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SAMPLES MUST BE CONTAINED BY THE CLIENT
 IN ACCORDANCE WITH THE FOLLOWING INSTRUCTIONS

ALS Environmental
 Ship to: 34 Dogwood Lane ■ Middletown, PA 17057 ■ 717-944-5541 ■ Fax: 717-944-1430

Co. Name: Pennsylvania Fabrications Inc.
 Contact (person): Martin G. Galatin
 Address: 723 Main Street
 Archbald PA 18403
 Phone: 570-487-1959

Bill to (person can report to):
 PO#: _____

Project Name#: Z7058/Lewis Brothers ALS Quote #:
 TAT: (Normal Standard TAT) is 10 business days. Date Required: _____
 Rush-Subject to ALS approval and surcharges. Approved By: _____

Email? Yes No
 Fax? Yes No

Sample Description/Location: _____
 (See it, list it, repeat on the lab report)

COC Comments: _____

Sample No.	Sample Date	Military Time	Enter Number of Containers Per Analysis
1 038-0612-19011d	6.13.12	1900	6
2 038-0612-19012d	6.15.12	1924	6
3 038-0612-19013d	6.15.12	1957	6
4 038-0612-19014	6.12.12	1940	6
5 038-0612-19015	6.15.12	1948	6
6 038-0612-19016	6.14.12	1935	6
7 038-0612-19017	6.12.12	1910	6
8			

LOGGED BY (signature): _____
 RECEIVED BY (signature): _____

Requisitioned By / Company Name	Date	Time	Received By / Company Name	Date	Time
Ray Hanley / Kevin Scurie	6.15.12	0905	Ray Hanley	6.15.12	0705
1 Amy Remy / PA Testimonials	6.15.12	0800	Amy Remy	6.15.12	0800
3 Paul Collins	6.15.12	1127	Paul Collins	6.15.12	1627
5 Paul Collins	6.15.12	1745	Paul Collins	6.15.12	1745
7 Paul Collins	6.15.12	1927	Paul Collins	6.15.12	1927
9					

Container Type: ALS Amber Glass, CG-200 Glass, PL-Ribbed. Container Size: 250ml, 500ml, 1L, 2L, etc. Preservative: HCl, HNO3, HAcOH, etc.

Coilset: WHITE - ORIGINAL CANARY - CUSTOMER COPY

ALS FIELD SERVICES:
 Pickup
 Labor
 Composite Sampling
 Rental Equipment
 Other

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Groundwater Sampling Analytical Data Sheets

August 9, 2012

August 17, 2012

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name: **27058**Workorder: **9982360**

Purchase Order:

Workorder ID: **Lewis Bros/27058**

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Friday, August 10, 2012.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticalab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 9982360 Lewis Bros/27058

Discard Date: 08/31/2012

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9982360001	058-0809-MW12d	Water	8/9/12 09:02	8/10/12 09:43	Customer
9982360002	058-0809-FB1	Water	8/9/12 09:15	8/10/12 09:43	Customer
9982360003	058-0809-Trip Blank	Water	8/9/12 07:30	8/10/12 09:43	Customer

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 9982360 Lewis Bros/27058

Lab ID: 9982360001

Date Collected: 8/9/2012 09:02

Matrix: Water

Sample ID: 058-0809-MW12d

Date Received: 8/10/2012 09:43

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:46	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:46	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:46	DD	A
Methyl t-Butyl Ether	4.4		ug/L	1.0	SW846 8260B		8/16/12 07:46	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/16/12 07:46	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:46	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/16/12 07:46	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:46	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 07:46	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.9		%	62-133	SW846 8260B		8/16/12 07:46	DD	A
4-Bromofluorobenzene (S)	96.5		%	79-114	SW846 8260B		8/16/12 07:46	DD	A
Dibromofluoromethane (S)	90.2		%	78-116	SW846 8260B		8/16/12 07:46	DD	A
Toluene-d8 (S)	96.6		%	76-127	SW846 8260B		8/16/12 07:46	DD	A

Sample Comments:


Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9982360 Lewis Bros/27058

Lab ID: **9982360002**
Sample ID: **058-0809-FB1**

Date Collected: 8/9/2012 09:15
Date Received: 8/10/2012 09:43

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:08	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:08	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:08	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/16/12 02:08	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/16/12 02:08	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:08	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/16/12 02:08	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:08	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:08	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	91.6		%	62-133	SW846 8260B		8/16/12 02:08	DD	A
4-Bromofluorobenzene (S)	93.9		%	79-114	SW846 8260B		8/16/12 02:08	DD	A
Dibromofluoromethane (S)	88.3		%	78-116	SW846 8260B		8/16/12 02:08	DD	A
Toluene-d8 (S)	94		%	76-127	SW846 8260B		8/16/12 02:08	DD	A

Sample Comments:

Anna G Milliken
Technical Manager

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 9982360 Lewis Bros/27058

Lab ID: 9982360003

Date Collected: 8/9/2012 07:30

Matrix: Water

Sample ID: 058-0809-Trip Blank

Date Received: 8/10/2012 09:43

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:30	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:30	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:30	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		8/16/12 02:30	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		8/16/12 02:30	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:30	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		8/16/12 02:30	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:30	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		8/16/12 02:30	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	93.2		%	62-133	SW846 8260B		8/16/12 02:30	DD	A
4-Bromofluorobenzene (S)	94.4		%	79-114	SW846 8260B		8/16/12 02:30	DD	A
Dibromofluoromethane (S)	87.3		%	78-116	SW846 8260B		8/16/12 02:30	DD	A
Toluene-d8 (S)	96.4		%	76-127	SW846 8260B		8/16/12 02:30	DD	A

Sample Comments:

 Anna G Milliken
 Technical Manager

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS
ALL SAMPLES MUST BE RECEIVED BY THE CUSTOMER SUPER INSTRUCTIONS FOLLOW

ALS Environmental
 Ship to: 34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430

Co. Name: PENNSYLVANIA TETONICS, LLC
Contact (person): MARGIE GILGALLON Phone: 570-487-1859
Address: 723 MAIN STREET
 ABERGLEN PA 18463

Bill to (if different than Reporting): PO#:

Project Name#: Lewis Bros / 27058 **ALS Quote #:**

(No mail-Standard TAT in 10 business days.
 Result Subject to ALS approval and surcharges.
Enail? penntonics@charter.com
Fax?

Pages 1 of 1
 Cooler: _____
 Trucking #: _____

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Analysis	Container Type	Container Size	Preservative	ANALYSES/METHOD REQUESTED
1	CG	40L	HCL	Water DO Control
2	CG	40L	HCL	Water DO Control
3	CG	40L	HCL	Water DO Control
4				
5				
6				
7				
8				
9				

ALS FIELD SERVICES

Correct containers?	<input checked="" type="checkbox"/>
Correct sample volume?	<input checked="" type="checkbox"/>
Correct preservation?	<input checked="" type="checkbox"/>
Headspace/Volume?	<input checked="" type="checkbox"/>
Correctly capped/sealed/checked?	<input checked="" type="checkbox"/>
Container in good condition?	<input checked="" type="checkbox"/>
(If present) Seals Intact?	<input checked="" type="checkbox"/>
Received on Ice?	<input checked="" type="checkbox"/>
CO2/Leak complete/rechecked?	<input checked="" type="checkbox"/>
Other:	

DATA DERIVABLES

Standard	<input checked="" type="checkbox"/>
CUP-able	<input type="checkbox"/>
NU-Reduced	<input type="checkbox"/>
NU-Fill	<input type="checkbox"/>
Other	<input type="checkbox"/>

SUMMARY

State Sample Collected By	MO	NU	XY	PA
Formed By	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Formed Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formed No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLED BY (Please Print): K. COSTA
RECEIVED BY (Company Name): Lewis Bros
DATE: 8/17/12
TIME: 0710
DATE: 8/17/12
TIME: 0710

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife · United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Groundwater Sampling Analytical Data Sheets

October 2, 3 & 4, 2013

October 17, 2013

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name: 27058 Lewis Brothers Garage	Workorder: 1052013
Purchase Order:	Workorder ID: 27058/Lewis Brothers Garage

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Monday, October 07, 2013.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Debra Musser (Project Coordinator) at (717) 944-5541.


Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS York: 978 Loucks Mill Road, York, PA 17402 717-505-5280

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 1052013 27058/Lewis Brothers Garage

Discard Date: 10/31/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1052013001	058-1002-MW1s	Water	10/2/13 14:44	10/7/13 23:50	Customer
1052013002	058-1002-MW2s	Water	10/2/13 15:33	10/7/13 23:50	Customer
1052013003	058-1002-MW3s	Water	10/2/13 15:58	10/7/13 23:50	Customer
1052013004	058-1002-MW4s	Water	10/2/13 15:36	10/7/13 23:50	Customer
1052013005	058-1002-MW5s	Water	10/2/13 14:50	10/7/13 23:50	Customer
1052013006	058-1002-MW6s	Water	10/2/13 14:35	10/7/13 23:50	Customer
1052013007	058-1002-MW7s	Water	10/2/13 08:43	10/7/13 23:50	Customer
1052013008	058-1002-MW8s	Water	10/3/13 10:19	10/7/13 23:50	Customer
1052013009	058-1002-MW9s	Water	10/3/13 09:24	10/7/13 23:50	Customer
1052013010	058-1002-MW10s	Water	10/3/13 14:05	10/7/13 23:50	Customer
1052013011	058-1002-MW11s	Water	10/3/13 14:45	10/7/13 23:50	Customer
1052013012	058-1002-MW12s	Water	10/3/13 13:20	10/7/13 23:50	Customer
1052013013	058-1002-MW13s	Water	10/2/13 12:54	10/7/13 23:50	Customer
1052013014	058-1002-MW14s	Water	10/3/13 13:04	10/7/13 23:50	Customer
1052013015	058-1002-MW15s	Water	10/2/13 12:29	10/7/13 23:50	Customer
1052013016	058-1002-MW16s	Water	10/2/13 12:47	10/7/13 23:50	Customer
1052013017	058-1002-MW17s	Water	10/3/13 11:45	10/7/13 23:50	Customer
1052013018	058-1002-MW1d	Water	10/4/13 08:57	10/7/13 23:50	Customer
1052013019	058-1002-MW2d	Water	10/4/13 09:46	10/7/13 23:50	Customer
1052013020	058-1002-MW6d	Water	10/4/13 09:13	10/7/13 23:50	Customer
1052013021	058-1002-MW7d	Water	10/4/13 09:30	10/7/13 23:50	Customer
1052013022	058-1002-MW8d	Water	10/4/13 13:52	10/7/13 23:50	Customer
1052013023	058-1002-MW9d	Water	10/4/13 14:38	10/7/13 23:50	Customer
1052013024	058-1002-MW10d	Water	10/4/13 12:15	10/7/13 23:50	Customer
1052013025	058-1002-MW11d	Water	10/4/13 13:02	10/7/13 23:50	Customer
1052013026	058-1002-MW12d	Water	10/4/13 16:27	10/7/13 23:50	Customer
1052013027	058-1002-MW13d	Water	10/4/13 15:23	10/7/13 23:50	Customer
1052013028	058-1002-FB1	Water	10/2/13 16:05	10/7/13 23:50	Customer
1052013029	058-1002-FB2	Water	10/3/13 15:50	10/7/13 23:50	Customer
1052013030	058-1002-FB3	Water	10/4/13 16:40	10/7/13 23:50	Customer
1052013031	058-1002-OW4	Water	10/2/13 14:13	10/7/13 23:50	Customer
1052013032	058-1002-Trip Blank GW	Water	10/7/13 23:50	10/7/13 23:50	Customer

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 1052013 27058/Lewis Brothers Garage

Discard Date: 10/31/2013

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
--------	-----------	--------	----------------	---------------	--------------

Workorder Comments:
Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS


Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013001**
Sample ID: **058-1002-MW1s**

Date Collected: 10/2/2013 14:44
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 01:07	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 01:07	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 01:07	GLQ	A
Methyl t-Butyl Ether	5.0		ug/L	1.0	SW846 8260B		10/13/13 01:07	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 01:07	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 01:07	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 01:07	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 01:07	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 01:07	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.9		%	62-133	SW846 8260B		10/13/13 01:07	GLQ	A
4-Bromofluorobenzene (S)	92.4		%	79-114	SW846 8260B		10/13/13 01:07	GLQ	A
Dibromofluoromethane (S)	93.2		%	78-116	SW846 8260B		10/13/13 01:07	GLQ	A
Toluene-d8 (S)	83.6		%	76-127	SW846 8260B		10/13/13 01:07	GLQ	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013002**
Sample ID: **058-1002-MW2s**

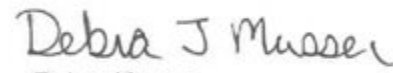
Date Collected: 10/2/2013 15:33
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	1930		ug/L	50.0	SW846 8260B		10/13/13 01:29	GLQ	A
Ethylbenzene	1570		ug/L	50.0	SW846 8260B		10/13/13 01:29	GLQ	A
Isopropylbenzene	138		ug/L	50.0	SW846 8260B		10/13/13 01:29	GLQ	A
Methyl t-Butyl Ether	453		ug/L	50.0	SW846 8260B		10/13/13 01:29	GLQ	A
Naphthalene	266		ug/L	100	SW846 8260B		10/13/13 01:29	GLQ	A
Toluene	3500		ug/L	50.0	SW846 8260B		10/13/13 01:29	GLQ	A
Total Xylenes	6230		ug/L	150	SW846 8260B		10/13/13 01:29	GLQ	A
1,2,4-Trimethylbenzene	2080		ug/L	50.0	SW846 8260B		10/13/13 01:29	GLQ	A
1,3,5-Trimethylbenzene	568		ug/L	50.0	SW846 8260B		10/13/13 01:29	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.1		%	62-133	SW846 8260B		10/13/13 01:29	GLQ	A
4-Bromofluorobenzene (S)	91.9		%	79-114	SW846 8260B		10/13/13 01:29	GLQ	A
Dibromofluoromethane (S)	92.7		%	78-116	SW846 8260B		10/13/13 01:29	GLQ	A
Toluene-d8 (S)	85.3		%	76-127	SW846 8260B		10/13/13 01:29	GLQ	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013003**
 Sample ID: **058-1002-MW3s**

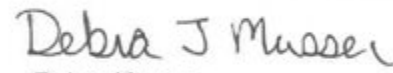
 Date Collected: 10/2/2013 15:58
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	7740		ug/L	250	SW846 8260B		10/13/13 01:51	GLQ	A
Ethylbenzene	5800		ug/L	250	SW846 8260B		10/13/13 01:51	GLQ	A
Isopropylbenzene	893		ug/L	250	SW846 8260B		10/13/13 01:51	GLQ	A
Methyl t-Butyl Ether	1930		ug/L	250	SW846 8260B		10/13/13 01:51	GLQ	A
Naphthalene	2540		ug/L	500	SW846 8260B		10/13/13 01:51	GLQ	A
Toluene	24400		ug/L	250	SW846 8260B		10/13/13 01:51	GLQ	A
Total Xylenes	37500		ug/L	750	SW846 8260B		10/13/13 01:51	GLQ	A
1,2,4-Trimethylbenzene	17600		ug/L	250	SW846 8260B		10/13/13 01:51	GLQ	A
1,3,5-Trimethylbenzene	4700		ug/L	250	SW846 8260B		10/13/13 01:51	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.2		%	62-133	SW846 8260B		10/13/13 01:51	GLQ	A
4-Bromofluorobenzene (S)	92.2		%	79-114	SW846 8260B		10/13/13 01:51	GLQ	A
Dibromofluoromethane (S)	90.3		%	78-116	SW846 8260B		10/13/13 01:51	GLQ	A
Toluene-d8 (S)	83.2		%	76-127	SW846 8260B		10/13/13 01:51	GLQ	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013004**
 Sample ID: **058-1002-MW4s**


 Date Collected: 10/2/2013 15:36
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	56.5		ug/L	5.0	SW846 8260B		10/13/13 02:14	GLQ	A
Ethylbenzene	158		ug/L	5.0	SW846 8260B		10/13/13 02:14	GLQ	A
Isopropylbenzene	24.0		ug/L	5.0	SW846 8260B		10/13/13 02:14	GLQ	A
Methyl t-Butyl Ether	1100		ug/L	25.0	SW846 8260B		10/15/13 03:53	GLQ	B
Naphthalene	17.9		ug/L	10.0	SW846 8260B		10/13/13 02:14	GLQ	A
Toluene	16.8		ug/L	5.0	SW846 8260B		10/13/13 02:14	GLQ	A
Total Xylenes	106		ug/L	15.0	SW846 8260B		10/13/13 02:14	GLQ	A
1,2,4-Trimethylbenzene	117		ug/L	5.0	SW846 8260B		10/13/13 02:14	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B		10/13/13 02:14	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.7		%	62-133	SW846 8260B		10/13/13 02:14	GLQ	A
4-Bromofluorobenzene (S)	95.7		%	79-114	SW846 8260B		10/13/13 02:14	GLQ	A
Dibromofluoromethane (S)	90.4		%	78-116	SW846 8260B		10/13/13 02:14	GLQ	A
Toluene-d8 (S)	85.8		%	76-127	SW846 8260B		10/13/13 02:14	GLQ	A
1,2-Dichloroethane-d4 (S)	86.8		%	62-133	SW846 8260B		10/15/13 03:53	GLQ	B
4-Bromofluorobenzene (S)	88.2		%	79-114	SW846 8260B		10/15/13 03:53	GLQ	B
Dibromofluoromethane (S)	82		%	78-116	SW846 8260B		10/15/13 03:53	GLQ	B
Toluene-d8 (S)	79.5		%	76-127	SW846 8260B		10/15/13 03:53	GLQ	B

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS


Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013005**
 Sample ID: **058-1002-MW5s**

 Date Collected: 10/2/2013 14:50
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:36	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:36	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:36	GLQ	A
Methyl t-Butyl Ether	6.7		ug/L	1.0	SW846 8260B		10/13/13 02:36	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 02:36	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:36	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 02:36	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:36	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:36	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.9		%	62-133	SW846 8260B		10/13/13 02:36	GLQ	A
4-Bromofluorobenzene (S)	97.2		%	79-114	SW846 8260B		10/13/13 02:36	GLQ	A
Dibromofluoromethane (S)	95.5		%	78-116	SW846 8260B		10/13/13 02:36	GLQ	A
Toluene-d8 (S)	86.9		%	76-127	SW846 8260B		10/13/13 02:36	GLQ	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS


Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013006**
Sample ID: **058-1002-MW6s**

Date Collected: 10/2/2013 14:35
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:59	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:59	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:59	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 02:59	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 02:59	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:59	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 02:59	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:59	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 02:59	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.7		%	62-133	SW846 8260B		10/13/13 02:59	GLQ	A
4-Bromofluorobenzene (S)	94.9		%	79-114	SW846 8260B		10/13/13 02:59	GLQ	A
Dibromofluoromethane (S)	92.8		%	78-116	SW846 8260B		10/13/13 02:59	GLQ	A
Toluene-d8 (S)	85.8		%	76-127	SW846 8260B		10/13/13 02:59	GLQ	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

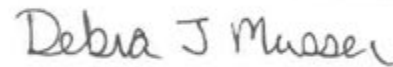
Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013007**
Sample ID: **058-1002-MW7s**

Date Collected: 10/2/2013 08:43
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:22	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:22	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:22	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 03:22	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 03:22	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:22	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 03:22	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:22	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:22	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.8		%	62-133	SW846 8260B		10/13/13 03:22	GLQ	A
4-Bromofluorobenzene (S)	93.2		%	79-114	SW846 8260B		10/13/13 03:22	GLQ	A
Dibromofluoromethane (S)	92.4		%	78-116	SW846 8260B		10/13/13 03:22	GLQ	A
Toluene-d8 (S)	82.9		%	76-127	SW846 8260B		10/13/13 03:22	GLQ	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

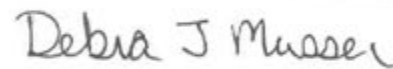
Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013008**
 Sample ID: **058-1002-MW8s**

 Date Collected: 10/3/2013 10:19
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 14:41	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 14:41	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 14:41	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 14:41	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 14:41	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 14:41	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 14:41	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 14:41	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 14:41	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		10/13/13 14:41	CPK	A
4-Bromofluorobenzene (S)	93.6		%	79-114	SW846 8260B		10/13/13 14:41	CPK	A
Dibromofluoromethane (S)	101		%	78-116	SW846 8260B		10/13/13 14:41	CPK	A
Toluene-d8 (S)	82.7		%	76-127	SW846 8260B		10/13/13 14:41	CPK	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

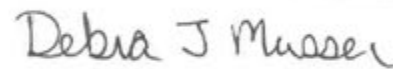
 Lab ID: **1052013009**
 Sample ID: **058-1002-MW9s**

 Date Collected: 10/3/2013 09:24
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:04	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:04	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:04	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 15:04	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 15:04	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:04	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 15:04	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:04	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:04	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		10/13/13 15:04	CPK	A
4-Bromofluorobenzene (S)	92.6		%	79-114	SW846 8260B		10/13/13 15:04	CPK	A
Dibromofluoromethane (S)	103		%	78-116	SW846 8260B		10/13/13 15:04	CPK	A
Toluene-d8 (S)	83.8		%	76-127	SW846 8260B		10/13/13 15:04	CPK	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013010**


Date Collected: 10/3/2013 14:05

Matrix: Water

Sample ID: **058-1002-MW10s**

Date Received: 10/7/2013 23:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	14.5		ug/L	1.0	SW846 8260B		10/13/13 15:26	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:26	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:26	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 15:26	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 15:26	CPK	A
Toluene	5.1		ug/L	1.0	SW846 8260B		10/13/13 15:26	CPK	A
Total Xylenes	8.0		ug/L	3.0	SW846 8260B		10/13/13 15:26	CPK	A
1,2,4-Trimethylbenzene	1.4		ug/L	1.0	SW846 8260B		10/13/13 15:26	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:26	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		10/13/13 15:26	CPK	A
4-Bromofluorobenzene (S)	91.8		%	79-114	SW846 8260B		10/13/13 15:26	CPK	A
Dibromofluoromethane (S)	97.2		%	78-116	SW846 8260B		10/13/13 15:26	CPK	A
Toluene-d8 (S)	83.2		%	76-127	SW846 8260B		10/13/13 15:26	CPK	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013011**

Date Collected: 10/3/2013 14:45

Matrix: Water

Sample ID: **058-1002-MW11s**

Date Received: 10/7/2013 23:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	306		ug/L	5.0	SW846 8260B		10/13/13 19:09	CPK	A
Ethylbenzene	563		ug/L	5.0	SW846 8260B		10/13/13 19:09	CPK	A
Isopropylbenzene	44.9		ug/L	5.0	SW846 8260B		10/13/13 19:09	CPK	A
Methyl t-Butyl Ether	80.9		ug/L	5.0	SW846 8260B		10/13/13 19:09	CPK	A
Naphthalene	64.1		ug/L	10.0	SW846 8260B		10/13/13 19:09	CPK	A
Toluene	139		ug/L	5.0	SW846 8260B		10/13/13 19:09	CPK	A
Total Xylenes	1470		ug/L	15.0	SW846 8260B		10/13/13 19:09	CPK	A
1,2,4-Trimethylbenzene	509		ug/L	5.0	SW846 8260B		10/13/13 19:09	CPK	A
1,3,5-Trimethylbenzene	150		ug/L	5.0	SW846 8260B		10/13/13 19:09	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		10/13/13 19:09	CPK	A
4-Bromofluorobenzene (S)	89.9		%	79-114	SW846 8260B		10/13/13 19:09	CPK	A
Dibromofluoromethane (S)	96.5		%	78-116	SW846 8260B		10/13/13 19:09	CPK	A
Toluene-d8 (S)	83.4		%	76-127	SW846 8260B		10/13/13 19:09	CPK	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.



Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

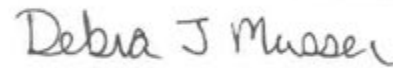
Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013012**
Sample ID: **058-1002-MW12s**

Date Collected: 10/3/2013 13:20
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	133		ug/L	1.0	SW846 8260B		10/16/13 07:19	DD	A
Ethylbenzene	22.3		ug/L	1.0	SW846 8260B		10/16/13 07:19	DD	A
Isopropylbenzene	3.9		ug/L	1.0	SW846 8260B		10/16/13 07:19	DD	A
Methyl t-Butyl Ether	33.5		ug/L	1.0	SW846 8260B		10/16/13 07:19	DD	A
Naphthalene	5.4		ug/L	2.0	SW846 8260B		10/16/13 07:19	DD	A
Toluene	8.1		ug/L	1.0	SW846 8260B		10/16/13 07:19	DD	A
Total Xylenes	27.9		ug/L	3.0	SW846 8260B		10/16/13 07:19	DD	A
1,2,4-Trimethylbenzene	3.9		ug/L	1.0	SW846 8260B		10/16/13 07:19	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/13 07:19	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	89.8		%	62-133	SW846 8260B		10/16/13 07:19	DD	A
4-Bromofluorobenzene (S)	95.9		%	79-114	SW846 8260B		10/16/13 07:19	DD	A
Dibromofluoromethane (S)	84.6		%	78-116	SW846 8260B		10/16/13 07:19	DD	A
Toluene-d8 (S)	97.8		%	76-127	SW846 8260B		10/16/13 07:19	DD	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

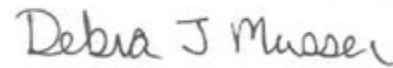
Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013013**
Sample ID: **058-1002-MW13s**

Date Collected: 10/2/2013 12:54
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:45	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:45	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:45	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 03:45	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 03:45	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:45	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 03:45	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:45	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 03:45	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.2		%	62-133	SW846 8260B		10/13/13 03:45	GLQ	A
4-Bromofluorobenzene (S)	93.6		%	79-114	SW846 8260B		10/13/13 03:45	GLQ	A
Dibromofluoromethane (S)	92.6		%	78-116	SW846 8260B		10/13/13 03:45	GLQ	A
Toluene-d8 (S)	85.3		%	76-127	SW846 8260B		10/13/13 03:45	GLQ	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: 1052013014

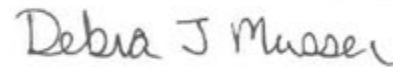
Date Collected: 10/3/2013 13:04

Matrix: Water

Sample ID: 058-1002-MW14s

Date Received: 10/7/2013 23:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:48	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:48	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:48	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 15:48	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 15:48	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:48	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 15:48	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:48	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 15:48	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		10/13/13 15:48	CPK	A
4-Bromofluorobenzene (S)	91.7		%	79-114	SW846 8260B		10/13/13 15:48	CPK	A
Dibromofluoromethane (S)	100		%	78-116	SW846 8260B		10/13/13 15:48	CPK	A
Toluene-d8 (S)	83.6		%	76-127	SW846 8260B		10/13/13 15:48	CPK	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

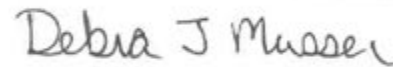
 Lab ID: **1052013015**
 Sample ID: **058-1002-MW15s**

 Date Collected: 10/2/2013 12:29
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:07	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:07	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:07	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 04:07	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 04:07	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:07	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 04:07	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:07	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:07	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		10/13/13 04:07	GLQ	A
4-Bromofluorobenzene (S)	93.7		%	79-114	SW846 8260B		10/13/13 04:07	GLQ	A
Dibromofluoromethane (S)	96.1		%	78-116	SW846 8260B		10/13/13 04:07	GLQ	A
Toluene-d8 (S)	84.9		%	76-127	SW846 8260B		10/13/13 04:07	GLQ	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

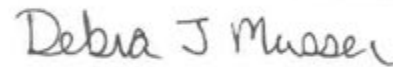
Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013016**
Sample ID: **058-1002-MW16s**

Date Collected: 10/2/2013 12:47
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:30	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:30	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:30	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 04:30	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 04:30	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:30	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 04:30	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:30	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 04:30	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		10/13/13 04:30	GLQ	A
4-Bromofluorobenzene (S)	95.2		%	79-114	SW846 8260B		10/13/13 04:30	GLQ	A
Dibromofluoromethane (S)	94.8		%	78-116	SW846 8260B		10/13/13 04:30	GLQ	A
Toluene-d8 (S)	86		%	76-127	SW846 8260B		10/13/13 04:30	GLQ	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: 1052013017


Date Collected: 10/3/2013 11:45

Matrix: Water

Sample ID: 058-1002-MW17s

Date Received: 10/7/2013 23:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:11	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:11	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:11	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 16:11	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 16:11	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:11	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 16:11	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:11	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:11	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		10/13/13 16:11	CPK	A
4-Bromofluorobenzene (S)	93.3		%	79-114	SW846 8260B		10/13/13 16:11	CPK	A
Dibromofluoromethane (S)	98.2		%	78-116	SW846 8260B		10/13/13 16:11	CPK	A
Toluene-d8 (S)	82.3		%	76-127	SW846 8260B		10/13/13 16:11	CPK	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

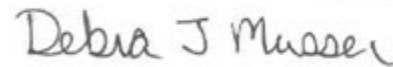
 Lab ID: **1052013018**
 Sample ID: **058-1002-MW1d**

 Date Collected: 10/4/2013 08:57
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:33	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:33	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:33	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 16:33	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 16:33	CPK	A
Toluene	1.0		ug/L	1.0	SW846 8260B		10/13/13 16:33	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 16:33	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:33	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:33	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62-133	SW846 8260B		10/13/13 16:33	CPK	A
4-Bromofluorobenzene (S)	96.1		%	79-114	SW846 8260B		10/13/13 16:33	CPK	A
Dibromofluoromethane (S)	101		%	78-116	SW846 8260B		10/13/13 16:33	CPK	A
Toluene-d8 (S)	83.9		%	76-127	SW846 8260B		10/13/13 16:33	CPK	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

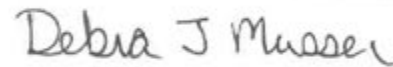
Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013019**
 Sample ID: **058-1002-MW2d**

 Date Collected: 10/4/2013 09:46
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	10.9		ug/L	1.0	SW846 8260B		10/16/13 18:57	TMP	B
Ethylbenzene	47.5		ug/L	1.0	SW846 8260B		10/16/13 18:57	TMP	B
Isopropylbenzene	6.8		ug/L	1.0	SW846 8260B		10/16/13 18:57	TMP	B
Methyl t-Butyl Ether	5.9		ug/L	1.0	SW846 8260B		10/16/13 18:57	TMP	B
Naphthalene	5.9		ug/L	2.0	SW846 8260B		10/16/13 18:57	TMP	B
Toluene	5.1		ug/L	1.0	SW846 8260B		10/16/13 18:57	TMP	B
Total Xylenes	27.1		ug/L	3.0	SW846 8260B		10/16/13 18:57	TMP	B
1,2,4-Trimethylbenzene	12.0		ug/L	1.0	SW846 8260B		10/16/13 18:57	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/16/13 18:57	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.5		%	62-133	SW846 8260B		10/16/13 18:57	TMP	B
4-Bromofluorobenzene (S)	97.2		%	79-114	SW846 8260B		10/16/13 18:57	TMP	B
Dibromofluoromethane (S)	87.3		%	78-116	SW846 8260B		10/16/13 18:57	TMP	B
Toluene-d8 (S)	99.6		%	76-127	SW846 8260B		10/16/13 18:57	TMP	B

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS


Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013020**
 Sample ID: **058-1002-MW6d**

 Date Collected: 10/4/2013 09:13
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:55	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:55	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:55	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 16:55	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 16:55	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:55	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 16:55	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:55	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 16:55	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62-133	SW846 8260B		10/13/13 16:55	CPK	A
4-Bromofluorobenzene (S)	93.6		%	79-114	SW846 8260B		10/13/13 16:55	CPK	A
Dibromofluoromethane (S)	99.7		%	78-116	SW846 8260B		10/13/13 16:55	CPK	A
Toluene-d8 (S)	82.9		%	76-127	SW846 8260B		10/13/13 16:55	CPK	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS


Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013021**
Sample ID: **058-1002-MW7d**

Date Collected: 10/4/2013 09:30
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:17	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:17	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:17	CPK	A
Methyl t-Butyl Ether	2.6		ug/L	1.0	SW846 8260B		10/13/13 17:17	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 17:17	CPK	A
Toluene	4.9		ug/L	1.0	SW846 8260B		10/13/13 17:17	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 17:17	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:17	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:17	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62-133	SW846 8260B		10/13/13 17:17	CPK	A
4-Bromofluorobenzene (S)	92.9		%	79-114	SW846 8260B		10/13/13 17:17	CPK	A
Dibromofluoromethane (S)	99.7		%	78-116	SW846 8260B		10/13/13 17:17	CPK	A
Toluene-d8 (S)	83.2		%	76-127	SW846 8260B		10/13/13 17:17	CPK	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

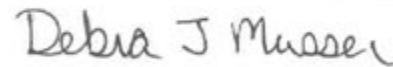
Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013022**
Sample ID: **058-1002-MW8d**

Date Collected: 10/4/2013 13:52
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:40	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:40	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:40	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 17:40	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 17:40	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:40	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 17:40	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:40	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 17:40	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		10/13/13 17:40	CPK	A
4-Bromofluorobenzene (S)	94.7		%	79-114	SW846 8260B		10/13/13 17:40	CPK	A
Dibromofluoromethane (S)	102		%	78-116	SW846 8260B		10/13/13 17:40	CPK	A
Toluene-d8 (S)	83.2		%	76-127	SW846 8260B		10/13/13 17:40	CPK	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

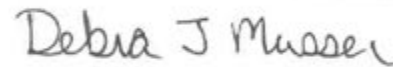
Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013023**
 Sample ID: **058-1002-MW9d**

 Date Collected: 10/4/2013 14:38
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:02	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:02	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:02	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 18:02	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 18:02	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:02	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 18:02	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:02	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:02	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		10/13/13 18:02	CPK	A
4-Bromofluorobenzene (S)	95		%	79-114	SW846 8260B		10/13/13 18:02	CPK	A
Dibromofluoromethane (S)	98.4		%	78-116	SW846 8260B		10/13/13 18:02	CPK	A
Toluene-d8 (S)	81		%	76-127	SW846 8260B		10/13/13 18:02	CPK	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

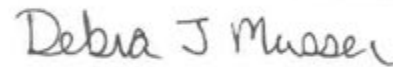
Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013024**
 Sample ID: **058-1002-MW10d**

 Date Collected: 10/4/2013 12:15
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:24	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:24	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:24	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 18:24	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 18:24	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:24	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 18:24	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:24	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:24	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	112		%	62-133	SW846 8260B		10/13/13 18:24	CPK	A
4-Bromofluorobenzene (S)	93.3		%	79-114	SW846 8260B		10/13/13 18:24	CPK	A
Dibromofluoromethane (S)	102		%	78-116	SW846 8260B		10/13/13 18:24	CPK	A
Toluene-d8 (S)	83.5		%	76-127	SW846 8260B		10/13/13 18:24	CPK	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: 1052013025

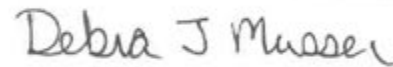
Date Collected: 10/4/2013 13:02

Matrix: Water

Sample ID: 058-1002-MW11d

Date Received: 10/7/2013 23:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/14/13 16:59	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 16:59	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 16:59	TMP	A
Methyl t-Butyl Ether	ND	1	ug/L	1.0	SW846 8260B		10/14/13 16:59	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/14/13 16:59	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/14/13 16:59	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/14/13 16:59	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 16:59	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 16:59	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.2		%	62-133	SW846 8260B		10/14/13 16:59	TMP	A
4-Bromofluorobenzene (S)	96.7		%	79-114	SW846 8260B		10/14/13 16:59	TMP	A
Dibromofluoromethane (S)	83.7		%	78-116	SW846 8260B		10/14/13 16:59	TMP	A
Toluene-d8 (S)	96.2		%	76-127	SW846 8260B		10/14/13 16:59	TMP	A

Sample Comments:


Debra Musser

Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS


Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013026**
 Sample ID: **058-1002-MW12d**

 Date Collected: 10/4/2013 16:27
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:46	CPK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:46	CPK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:46	CPK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/13 18:46	CPK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/13 18:46	CPK	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:46	CPK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/13 18:46	CPK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:46	CPK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/13 18:46	CPK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	113		%	62-133	SW846 8260B		10/13/13 18:46	CPK	A
4-Bromofluorobenzene (S)	94.1		%	79-114	SW846 8260B		10/13/13 18:46	CPK	A
Dibromofluoromethane (S)	101		%	78-116	SW846 8260B		10/13/13 18:46	CPK	A
Toluene-d8 (S)	82.8		%	76-127	SW846 8260B		10/13/13 18:46	CPK	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS


Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013027**
 Sample ID: **058-1002-MW13d**

 Date Collected: 10/4/2013 15:23
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/14/13 17:16	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 17:16	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 17:16	TMP	A
Methyl t-Butyl Ether	ND	1	ug/L	1.0	SW846 8260B		10/14/13 17:16	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/14/13 17:16	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/14/13 17:16	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/14/13 17:16	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 17:16	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 17:16	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.3		%	62-133	SW846 8260B		10/14/13 17:16	TMP	A
4-Bromofluorobenzene (S)	99.9		%	79-114	SW846 8260B		10/14/13 17:16	TMP	A
Dibromofluoromethane (S)	83.7		%	78-116	SW846 8260B		10/14/13 17:16	TMP	A
Toluene-d8 (S)	95.2		%	76-127	SW846 8260B		10/14/13 17:16	TMP	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

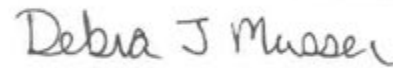
Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013028**
 Sample ID: **058-1002-FB1**

 Date Collected: 10/2/2013 16:05
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/13 23:37	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/13 23:37	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/13 23:37	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/13 23:37	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/13 23:37	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/13 23:37	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/13 23:37	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/13 23:37	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/13 23:37	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.2		%	62-133	SW846 8260B		10/12/13 23:37	GLQ	A
4-Bromofluorobenzene (S)	91.9		%	79-114	SW846 8260B		10/12/13 23:37	GLQ	A
Dibromofluoromethane (S)	90.8		%	78-116	SW846 8260B		10/12/13 23:37	GLQ	A
Toluene-d8 (S)	84.8		%	76-127	SW846 8260B		10/12/13 23:37	GLQ	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

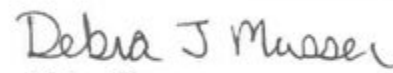
Workorder: 1052013 27058/Lewis Brothers Garage

 Lab ID: **1052013029**
 Sample ID: **058-1002-FB2**

 Date Collected: 10/3/2013 15:50
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/14/13 00:22	DD	A
Ethylbenzene	ND	2,3	ug/L	1.0	SW846 8260B		10/14/13 00:22	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 00:22	DD	A
Methyl t-Butyl Ether	ND	4,5	ug/L	1.0	SW846 8260B		10/14/13 00:22	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/14/13 00:22	DD	A
Toluene	ND	6,7	ug/L	1.0	SW846 8260B		10/14/13 00:22	DD	A
Total Xylenes	ND	8,9	ug/L	3.0	SW846 8260B		10/14/13 00:22	DD	A
1,2,4-Trimethylbenzene	ND	10,1	ug/L	1.0	SW846 8260B		10/14/13 00:22	DD	A
		1							
1,3,5-Trimethylbenzene	ND	12,1	ug/L	1.0	SW846 8260B		10/14/13 00:22	DD	A
		3							
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86.2		%	62-133	SW846 8260B		10/14/13 00:22	DD	A
4-Bromofluorobenzene (S)	99.5		%	79-114	SW846 8260B		10/14/13 00:22	DD	A
Dibromofluoromethane (S)	89.4		%	78-116	SW846 8260B		10/14/13 00:22	DD	A
Toluene-d8 (S)	94.9		%	76-127	SW846 8260B		10/14/13 00:22	DD	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

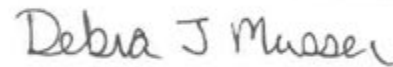
Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013030**
Sample ID: **058-1002-FB3**

Date Collected: 10/4/2013 16:40
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/14/13 15:00	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 15:00	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 15:00	TMP	A
Methyl t-Butyl Ether	ND	1	ug/L	1.0	SW846 8260B		10/14/13 15:00	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/14/13 15:00	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/14/13 15:00	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/14/13 15:00	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 15:00	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 15:00	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.6		%	62-133	SW846 8260B		10/14/13 15:00	TMP	A
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B		10/14/13 15:00	TMP	A
Dibromofluoromethane (S)	85.4		%	78-116	SW846 8260B		10/14/13 15:00	TMP	A
Toluene-d8 (S)	95.8		%	76-127	SW846 8260B		10/14/13 15:00	TMP	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1052013 27058/Lewis Brothers Garage

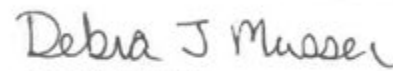
 Lab ID: **1052013031**
 Sample ID: **058-1002-OW4**

 Date Collected: 10/2/2013 14:13
 Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/15/13 04:15	GLQ	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/15/13 04:15	GLQ	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/15/13 04:15	GLQ	B
Methyl t-Butyl Ether	310		ug/L	5.0	SW846 8260B		10/13/13 04:52	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/15/13 04:15	GLQ	B
Toluene	ND		ug/L	1.0	SW846 8260B		10/15/13 04:15	GLQ	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/15/13 04:15	GLQ	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/15/13 04:15	GLQ	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/15/13 04:15	GLQ	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		10/13/13 04:52	GLQ	A
4-Bromofluorobenzene (S)	92.8		%	79-114	SW846 8260B		10/13/13 04:52	GLQ	A
Dibromofluoromethane (S)	95.3		%	78-116	SW846 8260B		10/13/13 04:52	GLQ	A
Toluene-d8 (S)	83.2		%	76-127	SW846 8260B		10/13/13 04:52	GLQ	A
1,2-Dichloroethane-d4 (S)	88.2		%	62-133	SW846 8260B		10/15/13 04:15	GLQ	B
4-Bromofluorobenzene (S)	90.4		%	79-114	SW846 8260B		10/15/13 04:15	GLQ	B
Dibromofluoromethane (S)	84.9		%	78-116	SW846 8260B		10/15/13 04:15	GLQ	B
Toluene-d8 (S)	78.7		%	76-127	SW846 8260B		10/15/13 04:15	GLQ	B

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

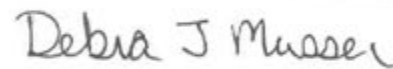
Workorder: 1052013 27058/Lewis Brothers Garage

Lab ID: **1052013032**
Sample ID: **058-1002-Trip Blank GW**

Date Collected: 10/7/2013 23:50
Date Received: 10/7/2013 23:50

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/14/13 14:43	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 14:43	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 14:43	TMP	A
Methyl t-Butyl Ether	ND	1	ug/L	1.0	SW846 8260B		10/14/13 14:43	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/14/13 14:43	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/14/13 14:43	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/14/13 14:43	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 14:43	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/14/13 14:43	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.7		%	62-133	SW846 8260B		10/14/13 14:43	TMP	A
4-Bromofluorobenzene (S)	99.2		%	79-114	SW846 8260B		10/14/13 14:43	TMP	A
Dibromofluoromethane (S)	83.1		%	78-116	SW846 8260B		10/14/13 14:43	TMP	A
Toluene-d8 (S)	97.5		%	76-127	SW846 8260B		10/14/13 14:43	TMP	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS QUALIFIERS/FLAGS

Workorder: 1052013 27058/Lewis Brothers Garage

PARAMETER QUALIFIERS/FLAGS

- [1] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 116 and the control limits were 69 to 115.
- [2] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 8.33 and the control limits were 80 to 124.
- [3] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 25.3 and the control limits were 80 to 124.
- [4] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 33.4 and the control limits were 69 to 115.
- [5] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 28.6 and the control limits were 69 to 115.
- [6] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Toluene. The % Recovery was reported as -129 and the control limits were 80 to 125.
- [7] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Toluene. The % Recovery was reported as -65.9 and the control limits were 80 to 125.
- [8] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Total Xylenes. The % Recovery was reported as -797 and the control limits were 79 to 125.
- [9] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Total Xylenes. The % Recovery was reported as -781 and the control limits were 79 to 125.
- [10] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The % Recovery was reported as -172 and the control limits were 76 to 125.
- [11] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The % Recovery was reported as -196 and the control limits were 76 to 125.
- [12] The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,3,5-Trimethylbenzene. The % Recovery was reported as 42.5 and the control limits were 76 to 125.
- [13] The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte 1,3,5-Trimethylbenzene. The % Recovery was reported as 39.4 and the control limits were 76 to 125.

ALS Environmental Laboratory Locations Across North AmericaCanada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



COC #: **ALS QL**

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**

**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
 SAMPLER. INSTRUCTIONS ON THE BACK.**

34 Dogwood Lane
 Middletown, PA 17057
 P. 717-944-5541
 F. 717-944-1430

Client Name: Pennsylvania Testonics, Inc.
 Address: 723 Main Street
 Archbald, PA 18403
 Contact: Marlin Giggilon
 Phone#: (670) 467-1959
 Project Name#: 27050 i Lewis Brothers Garage
 Bill To:

Recept info margin (to be completed by receiving Lab)
 Cooler Temp: _____ Therm ID: **Z15**
 No. of Coolers: _____
 Custody Seals Present? _____
 (if present) Seals Intact? _____
 Received on lot? _____
 COC Labels Complete/Accurate? _____
 Cont. in Good Cond.? _____
 Correct Containers? _____
 Correct Sample Volumes? _____
 Correct Preservation? _____
 Headspace/Voliles? _____
 Courier/Tracking #: _____

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	Matrix	Enter Number of Containers Per Sample or Field Results Below	Sample/COC Comments
1 058-1002-MW1s	10.2.13	1444	G GW	2	
2 058-1002-MW2s	10.2.13	1533	G GW	2	
3 058-1002-MW3s	10.2.13	1558	G GW	2	
4 058-1002-MW4s	10.3.13	1536	G GW	2	
5 058-1002-MW5s	10.2.13	1450	G GW	2	
6 058-1002-MW6s	10.2.13	1435	G GW	2	
7 058-1002-MW7s	10.2.13	0843	G GW	2	
8 058-1002-MW8s	10.3.13	1019	G GW	2	
9 058-1002-MW8s	10.3.13	0924	G GW	2	
10 058-1002-MW10s	10.3.13	1405	G GW	2	

ALS Field Services: _____ Pickup _____ Labor _____
 Composite Sampling _____ Rental Equipment _____
 Other: _____

Deliverables: Standard CLP-like USACE

Special Processing: USACE Navy NY NJ PA NC

Reportable to PADEP? Yes No PWSD # _____

EDDS: Form: Type: _____

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
SAMPLER. INSTRUCTIONS ON THE BACK.**

COC #: **013**

ALS Quote #: _____

2 of 4

Client Name: Pennsylvania Technics, Inc.
 Address: 723 Main Street, Archbald, PA 15403
 Contact: Martin Giggallon
 Phone#: (570) 487-1959
 Project Name#: 27058 / Lewis Brothers Garage
 Bill To: _____

TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Date Required: _____ Approved By: _____
 Email? Y N pfectronics@hotmail.com
 Fax? Y N

Sample Description/Location <small>(as it will appear on the lab report)</small>	Sample Date	Time	Matrix	Container Type	Volume	Preservative	ANALYSES/METHOD REQUESTED		Enter Number of Containers Per Sample or Field Results Below.	Sample/COC Comments
							CG	HCL		
1 068-1002-MW11s	10.3.13	1445	GW	40 ml					2	
2 068-1002-MW12s	10.3.13	1320	GW	40 ml					2	
3 068-1002-MW13s	10.2.13	1254	GW	40 ml					2	
4 068-1002-MW14s	10.3.13	1304	GW	40 ml					2	
5 068-1002-MW15s	10.2.13	1229	GW	40 ml					2	
6 068-1002-MW16s	10.2.13	1247	GW	40 ml					2	
7 068-1002-MW17s	10.3.13	1145	GW	40 ml					2	
8 068-1002-MW1d	10.4.13	0857	GW	40 ml					2	
9 068-1002-MW2d	10.4.13	0946	GW	40 ml					2	
10 068-1002-MW6d	10.4.13	0913	GW	40 ml					2	

Project Comments: _____

LOGGED BY/Signature: *[Signature]* Date: 10/18/13

REMOVED BY/Signature: _____ Date: _____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<i>[Signature]</i> / PA Technics	10.7.13	3:17	<i>[Signature]</i>	10.7.13	3:10
<i>[Signature]</i> / PA Technics	10.7.13	23:58	<i>[Signature]</i>	10.7.13	22:00
<i>[Signature]</i> / PA Technics	10.7.13	23:58	<i>[Signature]</i>	10.7.13	23:50

Receipt Information (Completed by Receiving Lab)
 Cooler Temp: _____ Therm ID: **205**
 No. of Coolers: _____
 Custody Seals Present? Y N
 (If present) Seals Intact? Y N
 COC Labels Complete/Accurate? Y N
 Cont. In Good Cond.? Y N
 Correct Containers? Y N
 Correct Sample Volume? Y N
 Correct Preservation? Y N
 Headspace/Volatiles? Y N
 Courier/Tracking #: _____
 Sample/COC Comments: _____

ALS Field Services: Pickup Labor Rental Equipment
 Composite Sampling Other: _____

Special Processing: USACE Navy
 State Samples Collected In: NY NJ PA NC
 Reportable to PADEP? Yes No
 PWSID #: _____
 EDDS: Format Type: _____

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ALS logo word...

34 Dogwood Lane
Middletown, PA 17057
P: 717-944-5541
F: 717-944-1430

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

**ALL SHADDED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.**

COC #: **013** of **3**

ALS Quote #: **DB**

Client Name: Pennsylvania Technologies, Inc.
Address: 723 Main Street
Archbaird, PA 16403

Contact: Martin Gilegalon
Phone#: (570) 487-1959
Project Name#: 27068 / Lewis Brothers Garage
Bill To:

TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.

Date Required: _____ Approved By: _____
 Email? Y N palectronics@hotmail.com
 Fax? Y No:

Sample Description/Location <small>(as it will appear on the report)</small>	Sample Date	Time	Matrix	Enter Number of Containers Per Sample or Field Results Below.	Sample/COC Comments
1 058-1002-MW7d	10-4-13	0930	GW	2	
2 058-1002-MW8d	10-4-13	1352	GW	2	
3 058-1002-MW9d	10-4-13	1438	GW	2	
4 058-1002-MW10d	10-4-13	1215	GW	2	
5 058-1002-MW11d	10-4-13	1302	GW	2	
6 058-1002-MW12d	10-4-13	1627	GW	2	
7 058-1002-MW13d	10-4-13	1523	GW	2	
8 058-1002-FB1	10-2-13	1605	G DI	2	
9 058-1002-FB2	10-3-13	1550	G DI	2	
10 058-1002-FB3	10-4-13	1640	G DI	2	

Unleaded Gasoline

ALS Field Services: Pickup Labor
 Composite Sampling Rental Equipment
 Other:

Receipt Information (Completed by Receiving Lab):
Cooler Temp: **1** Therm ID: **Z15**
No. of Coolers: _____ Y N

Custody Seals Present?
 (if present) Seals Intact?
 Received on Ice?
 COC Labels Complete/Accurate?
 Cont. in Good Cond.?
 Correct Containers?
 Correct Sample Volumes?
 Correct Preservation?
 Headspace/Volatiles?

Courier Tracking #: _____

ANALYSES METHOD REQUESTED

Enter Number of Containers Per Sample or Field Results Below.

LOGGED BY (Signature): *[Signature]* # 10/8 # 600

REVIEWED BY (Signature): *[Signature]* # 10/8 # 600

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 <i>[Signature]</i> IPA-Testaments	10-7-13	13:00	2 <i>[Signature]</i> Blomberg	10-7	3:00
3 <i>[Signature]</i> AP	10-7	2:00	4 <i>[Signature]</i> AP	10-7	2:00
5 <i>[Signature]</i> AP	10-7	2:30	8 <i>[Signature]</i> SHS	10-7	2:30
7 <i>[Signature]</i> AP	10-7	2:30			
9 <i>[Signature]</i> AP	10-7	2:30			

Project Comments:

Special Processing

USACE Navy NY
 CLP-like USACE NJ
 Reportable to PADEP? Yes No

Sample Disposal: Lab Special

State Samples Collected In

USACE Navy NY
 CLP-like USACE NJ
 Reportable to PADEP? Yes No

Sample Disposal: Lab Special

Deliverables

Standard CLP-like USACE

Reportable to PADEP? Yes No

PWSD # _____

EDDS: Format Type: _____

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

34 Dogwood Lane
Middletown, PA 17057
P: 717-944-5541
F: 717-944-1430

ALS logo word...

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
SAMPLER. INSTRUCTIONS ON THE BACK.**

COC #: **013**

ALS Quote #:

4 of 4

Client Name: Pennsylvania Telectronics, Inc.
Address: 723 Main Street
 Archbold, PA 18403
Contact: Martin Gligel
Phone: (670) 487-1909
Project Name: 27068 / Lewis Brothers Garage
Bill To:

TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
Date Required: _____ **Approved By:** _____
Email: Y N patelectronics@hotmail.com
Fax: Y N

Receipt Information (Completed by Receiving Lab)

Cooler Temp: _____ Therm ID: _____ Y N Initial

No. of Coolers: _____

Custody Seals Present? (if present) Seals Intact? _____

Receives on Ice? _____

COC Labels Complete/Accurate? _____

Cont. in Good Cond? _____

Correct Containers? _____

Correct Sample Volumes? _____

Correct Preservation? _____

Headspaces/Air/Lies? _____

Courier Tracking #: _____

Sample/COC Comments

Sample #	Sample Description/Location <small>(let it all appear on the lab report)</small>	Sample Date	Time	Matrix	Enter Number of Containers Per Sample on Field Results Below.		Special Processing	State Samples Collected In
					Standard	Deliverables		
1	OSB-1002-004	10.2.13	1413	GWA	2		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> CUP-like <input type="checkbox"/> USACE	<input type="checkbox"/> NY <input type="checkbox"/> NJ <input checked="" type="checkbox"/> PA <input type="checkbox"/> NC
2								
3								
4	OSB-1002-Trip Blanksw (Lab Prepared)						<input type="checkbox"/> USACE <input type="checkbox"/> Navy <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Lab <input type="checkbox"/> Special
5								
6								
7								
8								
9								
10								

Project Comments:

LOGGED BY (signature): *[Signature]* Date: 10.18.13 Time: 1600

REVIEWED BY (signature): *[Signature]* Date: 10.17.13 Time: 301

Relinquished By / Company Name: *[Signature]* Date: 10.17.13 Time: 2358

Relinquished By / Company Name: *[Signature]* Date: 10.17.13 Time: 1350

ALS Field Services: Pickup Labor Rental Equipment
 Composite Sampling Other

Reportable to PADEP? Yes No
 PWSID # _____

EDDS: Format Type _____

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Groundwater Sampling Analytical Data Sheets

February 3, 4, 5 & 6, 2014

February 19, 2014

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name: 27058 Lewis Brothers Garage	Workorder: 1070643
Purchase Order:	Workorder ID: Lewis Brothers Garage/27058

Dear Mr. Gilgallon,

Enclosed are the analytical results for samples received by the laboratory on Friday, February 07, 2014.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.


If you have any questions regarding this certificate of analysis, please contact Debra Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 1070643 Lewis Brothers Garage/27058

Discard Date: 03/05/2014

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1070643001	058-0122-MW2s	Water	2/6/14 15:46	2/7/14 09:45	Customer
1070643002	058-0122-MW3s	Water	2/6/14 15:23	2/7/14 09:45	Customer
1070643003	058-0122-MW4s	Water	2/6/14 14:52	2/7/14 09:45	Customer
1070643004	058-0122-MW5s	Water	2/3/14 12:03	2/7/14 09:45	Customer
1070643005	058-0122-MW6s	Water	2/3/14 13:35	2/7/14 09:45	Customer
1070643006	058-0122-MW7s	Water	2/6/14 13:03	2/7/14 09:45	Customer
1070643007	058-0122-MW8s	Water	2/6/14 11:45	2/7/14 09:45	Customer
1070643008	058-0122-MW9s	Water	2/6/14 10:32	2/7/14 09:45	Customer
1070643009	058-0122-MW10s	Water	2/4/14 12:01	2/7/14 09:45	Customer
1070643010	058-0122-MW11s	Water	2/6/14 14:00	2/7/14 09:45	Customer
1070643011	058-0122-MW12s	Water	2/3/14 10:25	2/7/14 09:45	Customer
1070643012	058-0122-MW13s	Water	2/3/14 10:33	2/7/14 09:45	Customer
1070643013	058-0122-MW14s	Water	2/6/14 09:43	2/7/14 09:45	Customer
1070643014	058-0122-MW15s	Water	2/3/14 09:00	2/7/14 09:45	Customer
1070643015	058-0122-MW17s	Water	2/6/14 08:44	2/7/14 09:45	Customer
1070643016	058-0122-FB1	Water	2/3/14 14:45	2/7/14 09:45	Customer
1070643017	058-0122-FB2	Water	2/4/14 14:42	2/7/14 09:45	Customer
1070643018	058-0122-FB3	Water	2/6/14 16:00	2/7/14 09:45	Customer
1070643019	058-0122-MW2d	Water	2/5/14 11:20	2/7/14 09:45	Customer
1070643020	058-0122-MW6d	Water	2/5/14 10:45	2/7/14 09:45	Customer
1070643021	058-0122-MW7d	Water	2/5/14 11:00	2/7/14 09:45	Customer
1070643022	058-0122-MW8d	Water	2/4/14 09:57	2/7/14 09:45	Customer
1070643023	058-0122-MW9d	Water	2/4/14 08:47	2/7/14 09:45	Customer
1070643024	058-0122-MW10d	Water	2/4/14 12:41	2/7/14 09:45	Customer
1070643025	058-0122-MW11d	Water	2/4/14 13:46	2/7/14 09:45	Customer
1070643026	058-0122-MW12d	Water	2/4/14 14:37	2/7/14 09:45	Customer
1070643027	058-0122-MW13d	Water	2/4/14 11:02	2/7/14 09:45	Customer
1070643028	058-0122-OW4	Water	2/3/14 13:12	2/7/14 09:45	Customer
1070643029	058-0122-Trip Blank	Water	2/7/14 09:45	2/7/14 09:45	Customer
1070643030	058-0122-MW1D	Water	2/5/14 10:30	2/7/14 09:45	Customer

Workorder Comments:

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 1070643 Lewis Brothers Garage/27058

Discard Date: 03/05/2014

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
--------	-----------	--------	----------------	---------------	--------------

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643001**
Sample ID: **058-0122-MW2s**

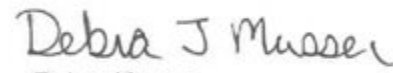
Date Collected: 2/6/2014 15:46
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	2030		ug/L	50.0	SW846 8260B		2/12/14 15:30	TMP	A
Ethylbenzene	2140		ug/L	50.0	SW846 8260B		2/12/14 15:30	TMP	A
Isopropylbenzene	189		ug/L	50.0	SW846 8260B		2/12/14 15:30	TMP	A
Methyl t-Butyl Ether	405		ug/L	50.0	SW846 8260B		2/12/14 15:30	TMP	A
Naphthalene	479		ug/L	100	SW846 8260B		2/12/14 15:30	TMP	A
Toluene	3790		ug/L	50.0	SW846 8260B		2/12/14 15:30	TMP	A
Total Xylenes	9020		ug/L	150	SW846 8260B		2/12/14 15:30	TMP	A
1,2,4-Trimethylbenzene	2910		ug/L	50.0	SW846 8260B		2/12/14 15:30	TMP	A
1,3,5-Trimethylbenzene	734		ug/L	50.0	SW846 8260B		2/12/14 15:30	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	121		%	62-133	SW846 8260B		2/12/14 15:30	TMP	A
4-Bromofluorobenzene (S)	108		%	79-114	SW846 8260B		2/12/14 15:30	TMP	A
Dibromofluoromethane (S)	108		%	78-116	SW846 8260B		2/12/14 15:30	TMP	A
Toluene-d8 (S)	120		%	76-127	SW846 8260B		2/12/14 15:30	TMP	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643002**
Sample ID: **058-0122-MW3s**


Date Collected: 2/6/2014 15:23
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	9800		ug/L	250	SW846 8260B		2/12/14 15:52	TMP	A
Ethylbenzene	12500		ug/L	250	SW846 8260B		2/12/14 15:52	TMP	A
Isopropylbenzene	2260		ug/L	250	SW846 8260B		2/12/14 15:52	TMP	A
Methyl t-Butyl Ether	1110		ug/L	250	SW846 8260B		2/12/14 15:52	TMP	A
Naphthalene	9460		ug/L	500	SW846 8260B		2/12/14 15:52	TMP	A
Toluene	43900		ug/L	250	SW846 8260B		2/12/14 15:52	TMP	A
Total Xylenes	88900		ug/L	750	SW846 8260B		2/12/14 15:52	TMP	A
1,2,4-Trimethylbenzene	2740		ug/L	1000	SW846 8260B		2/14/14 16:11	JPA	A
1,3,5-Trimethylbenzene	13000		ug/L	250	SW846 8260B		2/12/14 15:52	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	124		%	62-133	SW846 8260B		2/12/14 15:52	TMP	A
4-Bromofluorobenzene (S)	105		%	79-114	SW846 8260B		2/12/14 15:52	TMP	A
Dibromofluoromethane (S)	104		%	78-116	SW846 8260B		2/12/14 15:52	TMP	A
Toluene-d8 (S)	120		%	76-127	SW846 8260B		2/12/14 15:52	TMP	A
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B		2/14/14 16:11	JPA	A
4-Bromofluorobenzene (S)	95.6		%	79-114	SW846 8260B		2/14/14 16:11	JPA	A
Dibromofluoromethane (S)	89.7		%	78-116	SW846 8260B		2/14/14 16:11	JPA	A
Toluene-d8 (S)	92.5		%	76-127	SW846 8260B		2/14/14 16:11	JPA	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.



Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643003**
 Sample ID: **058-0122-MW4s**

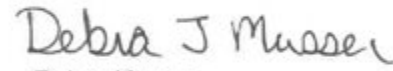
 Date Collected: 2/6/2014 14:52
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	51.2		ug/L	25.0	SW846 8260B		2/12/14 16:14	TMP	A
Ethylbenzene	266		ug/L	25.0	SW846 8260B		2/12/14 16:14	TMP	A
Isopropylbenzene	39.9		ug/L	25.0	SW846 8260B		2/12/14 16:14	TMP	A
Methyl t-Butyl Ether	1100		ug/L	25.0	SW846 8260B		2/12/14 16:14	TMP	A
Naphthalene	ND		ug/L	50.0	SW846 8260B		2/12/14 16:14	TMP	A
Toluene	27.7		ug/L	25.0	SW846 8260B		2/12/14 16:14	TMP	A
Total Xylenes	241		ug/L	75.0	SW846 8260B		2/12/14 16:14	TMP	A
1,2,4-Trimethylbenzene	209		ug/L	25.0	SW846 8260B		2/12/14 16:14	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	25.0	SW846 8260B		2/12/14 16:14	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	122		%	62-133	SW846 8260B		2/12/14 16:14	TMP	A
4-Bromofluorobenzene (S)	108		%	79-114	SW846 8260B		2/12/14 16:14	TMP	A
Dibromofluoromethane (S)	107		%	78-116	SW846 8260B		2/12/14 16:14	TMP	A
Toluene-d8 (S)	119		%	76-127	SW846 8260B		2/12/14 16:14	TMP	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.



 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

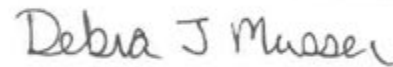
Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643004**
Sample ID: **058-0122-MW5s**

Date Collected: 2/3/2014 12:03
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/11/14 18:37	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 18:37	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 18:37	CJG	A
Methyl t-Butyl Ether	7.7		ug/L	1.0	SW846 8260B		2/11/14 18:37	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/11/14 18:37	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/11/14 18:37	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/11/14 18:37	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 18:37	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 18:37	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.5		%	62-133	SW846 8260B		2/11/14 18:37	CJG	A
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B		2/11/14 18:37	CJG	A
Dibromofluoromethane (S)	82.6		%	78-116	SW846 8260B		2/11/14 18:37	CJG	A
Toluene-d8 (S)	93		%	76-127	SW846 8260B		2/11/14 18:37	CJG	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

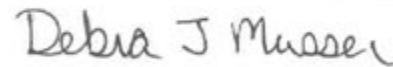
Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643005**
Sample ID: **058-0122-MW6s**

Date Collected: 2/3/2014 13:35
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:28	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:28	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:28	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/11/14 19:28	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/11/14 19:28	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:28	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/11/14 19:28	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:28	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:28	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B		2/11/14 19:28	CJG	A
4-Bromofluorobenzene (S)	99.5		%	79-114	SW846 8260B		2/11/14 19:28	CJG	A
Dibromofluoromethane (S)	82.5		%	78-116	SW846 8260B		2/11/14 19:28	CJG	A
Toluene-d8 (S)	92.1		%	76-127	SW846 8260B		2/11/14 19:28	CJG	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

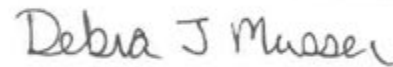
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643006**
 Sample ID: **058-0122-MW7s**

 Date Collected: 2/6/2014 13:03
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:36	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:36	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:36	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 16:36	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/12/14 16:36	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:36	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 16:36	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:36	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:36	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	121		%	62-133	SW846 8260B		2/12/14 16:36	TMP	A
4-Bromofluorobenzene (S)	105		%	79-114	SW846 8260B		2/12/14 16:36	TMP	A
Dibromofluoromethane (S)	106		%	78-116	SW846 8260B		2/12/14 16:36	TMP	A
Toluene-d8 (S)	119		%	76-127	SW846 8260B		2/12/14 16:36	TMP	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

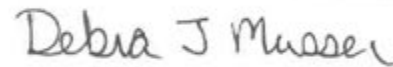
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643007**
 Sample ID: **058-0122-MW8s**

 Date Collected: 2/6/2014 11:45
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:57	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:57	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:57	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 16:57	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/12/14 16:57	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:57	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 16:57	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:57	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 16:57	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	123		%	62-133	SW846 8260B		2/12/14 16:57	TMP	A
4-Bromofluorobenzene (S)	109		%	79-114	SW846 8260B		2/12/14 16:57	TMP	A
Dibromofluoromethane (S)	106		%	78-116	SW846 8260B		2/12/14 16:57	TMP	A
Toluene-d8 (S)	119		%	76-127	SW846 8260B		2/12/14 16:57	TMP	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

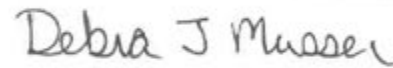
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643008**
 Sample ID: **058-0122-MW9s**

 Date Collected: 2/6/2014 10:32
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:19	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:19	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:19	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 17:19	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/12/14 17:19	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:19	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 17:19	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:19	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:19	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	122		%	62-133	SW846 8260B		2/12/14 17:19	TMP	A
4-Bromofluorobenzene (S)	105		%	79-114	SW846 8260B		2/12/14 17:19	TMP	A
Dibromofluoromethane (S)	104		%	78-116	SW846 8260B		2/12/14 17:19	TMP	A
Toluene-d8 (S)	119		%	76-127	SW846 8260B		2/12/14 17:19	TMP	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: 1070643009

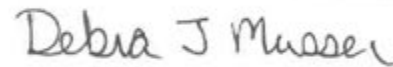
Date Collected: 2/4/2014 12:01

Matrix: Water

Sample ID: 058-0122-MW10s

Date Received: 2/7/2014 09:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:16	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:16	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:16	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 13:16	JPA	A
Naphthalene	ND	2	ug/L	2.0	SW846 8260B		2/12/14 13:16	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:16	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 13:16	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:16	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:16	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		2/12/14 13:16	JPA	A
4-Bromofluorobenzene (S)	95.5		%	79-114	SW846 8260B		2/12/14 13:16	JPA	A
Dibromofluoromethane (S)	84.2		%	78-116	SW846 8260B		2/12/14 13:16	JPA	A
Toluene-d8 (S)	91.4		%	76-127	SW846 8260B		2/12/14 13:16	JPA	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: 1070643010

Date Collected: 2/6/2014 14:00

Matrix: Water

Sample ID: 058-0122-MW11s

Date Received: 2/7/2014 09:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	479		ug/L	5.0	SW846 8260B		2/12/14 17:41	TMP	A
Ethylbenzene	812		ug/L	5.0	SW846 8260B		2/12/14 17:41	TMP	A
Isopropylbenzene	69.4		ug/L	5.0	SW846 8260B		2/12/14 17:41	TMP	A
Methyl t-Butyl Ether	98.2		ug/L	5.0	SW846 8260B		2/12/14 17:41	TMP	A
Naphthalene	117		ug/L	10.0	SW846 8260B		2/12/14 17:41	TMP	A
Toluene	222		ug/L	5.0	SW846 8260B		2/12/14 17:41	TMP	A
Total Xylenes	2240		ug/L	15.0	SW846 8260B		2/12/14 17:41	TMP	A
1,2,4-Trimethylbenzene	739		ug/L	5.0	SW846 8260B		2/12/14 17:41	TMP	A
1,3,5-Trimethylbenzene	221		ug/L	5.0	SW846 8260B		2/12/14 17:41	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	124		%	62-133	SW846 8260B		2/12/14 17:41	TMP	A
4-Bromofluorobenzene (S)	107		%	79-114	SW846 8260B		2/12/14 17:41	TMP	A
Dibromofluoromethane (S)	105		%	78-116	SW846 8260B		2/12/14 17:41	TMP	A
Toluene-d8 (S)	123		%	76-127	SW846 8260B		2/12/14 17:41	TMP	A

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.



Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: 1070643011


Date Collected: 2/3/2014 10:25

Matrix: Water

Sample ID: 058-0122-MW12s

Date Received: 2/7/2014 09:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	198		ug/L	1.0	SW846 8260B		2/11/14 18:54	CJG	A
Ethylbenzene	31.7		ug/L	1.0	SW846 8260B		2/11/14 18:54	CJG	A
Isopropylbenzene	5.9		ug/L	1.0	SW846 8260B		2/11/14 18:54	CJG	A
Methyl t-Butyl Ether	51.8		ug/L	1.0	SW846 8260B		2/11/14 18:54	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/11/14 18:54	CJG	A
Toluene	10.2		ug/L	1.0	SW846 8260B		2/11/14 18:54	CJG	A
Total Xylenes	22.2		ug/L	3.0	SW846 8260B		2/11/14 18:54	CJG	A
1,2,4-Trimethylbenzene	1.2		ug/L	1.0	SW846 8260B		2/11/14 18:54	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 18:54	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95		%	62-133	SW846 8260B		2/11/14 18:54	CJG	A
4-Bromofluorobenzene (S)	96.9		%	79-114	SW846 8260B		2/11/14 18:54	CJG	A
Dibromofluoromethane (S)	78.4		%	78-116	SW846 8260B		2/11/14 18:54	CJG	A
Toluene-d8 (S)	92		%	76-127	SW846 8260B		2/11/14 18:54	CJG	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

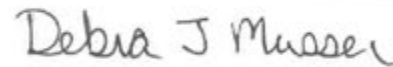
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643012**
 Sample ID: **058-0122-MW13s**

 Date Collected: 2/3/2014 10:33
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:11	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:11	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:11	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/11/14 19:11	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/11/14 19:11	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:11	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/11/14 19:11	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:11	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:11	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		2/11/14 19:11	CJG	A
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B		2/11/14 19:11	CJG	A
Dibromofluoromethane (S)	81		%	78-116	SW846 8260B		2/11/14 19:11	CJG	A
Toluene-d8 (S)	91.5		%	76-127	SW846 8260B		2/11/14 19:11	CJG	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

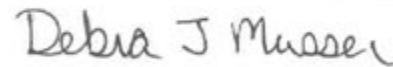
Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643013**
Sample ID: **058-0122-MW14s**

Date Collected: 2/6/2014 09:43
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:03	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:03	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:03	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 18:03	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/12/14 18:03	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:03	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 18:03	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:03	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:03	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	125		%	62-133	SW846 8260B		2/12/14 18:03	TMP	A
4-Bromofluorobenzene (S)	105		%	79-114	SW846 8260B		2/12/14 18:03	TMP	A
Dibromofluoromethane (S)	105		%	78-116	SW846 8260B		2/12/14 18:03	TMP	A
Toluene-d8 (S)	119		%	76-127	SW846 8260B		2/12/14 18:03	TMP	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

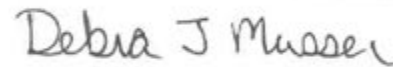
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643014**
 Sample ID: **058-0122-MW15s**

 Date Collected: 2/3/2014 09:00
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/11/14 17:28	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 17:28	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 17:28	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/11/14 17:28	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/11/14 17:28	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/11/14 17:28	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/11/14 17:28	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 17:28	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 17:28	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		2/11/14 17:28	CJG	A
4-Bromofluorobenzene (S)	98.5		%	79-114	SW846 8260B		2/11/14 17:28	CJG	A
Dibromofluoromethane (S)	81		%	78-116	SW846 8260B		2/11/14 17:28	CJG	A
Toluene-d8 (S)	90.7		%	76-127	SW846 8260B		2/11/14 17:28	CJG	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: 1070643015

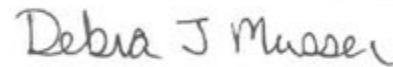
Date Collected: 2/6/2014 08:44

Matrix: Water

Sample ID: 058-0122-MW17s

Date Received: 2/7/2014 09:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:33	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:33	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:33	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/13/14 00:33	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/13/14 00:33	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:33	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/13/14 00:33	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:33	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 00:33	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		2/13/14 00:33	GLQ	A
4-Bromofluorobenzene (S)	85.5		%	79-114	SW846 8260B		2/13/14 00:33	GLQ	A
Dibromofluoromethane (S)	103		%	78-116	SW846 8260B		2/13/14 00:33	GLQ	A
Toluene-d8 (S)	93.4		%	76-127	SW846 8260B		2/13/14 00:33	GLQ	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

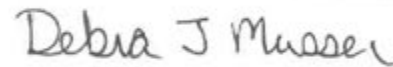
 Lab ID: **1070643016**
 Sample ID: **058-0122-FB1**

 Date Collected: 2/3/2014 14:45
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/11/14 13:46	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 13:46	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 13:46	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/11/14 13:46	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/11/14 13:46	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/11/14 13:46	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/11/14 13:46	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 13:46	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 13:46	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		2/11/14 13:46	CJG	A
4-Bromofluorobenzene (S)	95.2		%	79-114	SW846 8260B		2/11/14 13:46	CJG	A
Dibromofluoromethane (S)	80.8		%	78-116	SW846 8260B		2/11/14 13:46	CJG	A
Toluene-d8 (S)	92.1		%	76-127	SW846 8260B		2/11/14 13:46	CJG	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

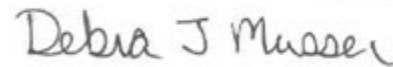
Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643017**
Sample ID: **058-0122-FB2**

Date Collected: 2/4/2014 14:42
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/18/14 14:18	JPA	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/18/14 14:18	JPA	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/18/14 14:18	JPA	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/18/14 14:18	JPA	B
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/18/14 14:18	JPA	B
Toluene	ND		ug/L	1.0	SW846 8260B		2/18/14 14:18	JPA	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/18/14 14:18	JPA	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/18/14 14:18	JPA	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/18/14 14:18	JPA	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.5		%	62-133	SW846 8260B		2/18/14 14:18	JPA	B
4-Bromofluorobenzene (S)	106		%	79-114	SW846 8260B		2/18/14 14:18	JPA	B
Dibromofluoromethane (S)	88.1		%	78-116	SW846 8260B		2/18/14 14:18	JPA	B
Toluene-d8 (S)	88.5		%	76-127	SW846 8260B		2/18/14 14:18	JPA	B

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

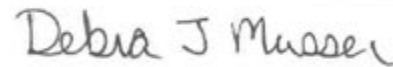
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643018**
 Sample ID: **058-0122-FB3**

 Date Collected: 2/6/2014 16:00
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/13/14 01:07	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 01:07	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 01:07	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/13/14 01:07	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/13/14 01:07	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/13/14 01:07	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/13/14 01:07	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 01:07	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/13/14 01:07	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	62-133	SW846 8260B		2/13/14 01:07	GLQ	A
4-Bromofluorobenzene (S)	85.9		%	79-114	SW846 8260B		2/13/14 01:07	GLQ	A
Dibromofluoromethane (S)	109		%	78-116	SW846 8260B		2/13/14 01:07	GLQ	A
Toluene-d8 (S)	92.6		%	76-127	SW846 8260B		2/13/14 01:07	GLQ	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

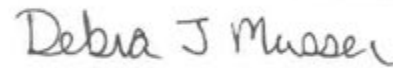
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643019**
 Sample ID: **058-0122-MW2d**

 Date Collected: 2/5/2014 11:20
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:24	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:24	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:24	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 18:24	JPA	A
Naphthalene	ND	2	ug/L	2.0	SW846 8260B		2/12/14 18:24	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:24	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 18:24	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:24	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:24	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		2/12/14 18:24	JPA	A
4-Bromofluorobenzene (S)	94.1		%	79-114	SW846 8260B		2/12/14 18:24	JPA	A
Dibromofluoromethane (S)	82.8		%	78-116	SW846 8260B		2/12/14 18:24	JPA	A
Toluene-d8 (S)	91.4		%	76-127	SW846 8260B		2/12/14 18:24	JPA	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS


Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643020**
Sample ID: **058-0122-MW6d**

Date Collected: 2/5/2014 10:45
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:50	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:50	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:50	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 17:50	JPA	A
Naphthalene	ND	2	ug/L	2.0	SW846 8260B		2/12/14 17:50	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:50	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 17:50	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:50	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:50	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B		2/12/14 17:50	JPA	A
4-Bromofluorobenzene (S)	95.9		%	79-114	SW846 8260B		2/12/14 17:50	JPA	A
Dibromofluoromethane (S)	82.8		%	78-116	SW846 8260B		2/12/14 17:50	JPA	A
Toluene-d8 (S)	91.2		%	76-127	SW846 8260B		2/12/14 17:50	JPA	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

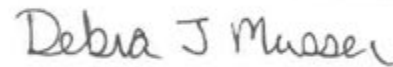
Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643021**
Sample ID: **058-0122-MW7d**

Date Collected: 2/5/2014 11:00
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:07	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:07	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:07	JPA	A
Methyl t-Butyl Ether	7.6		ug/L	1.0	SW846 8260B		2/12/14 18:07	JPA	A
Naphthalene	ND	2	ug/L	2.0	SW846 8260B		2/12/14 18:07	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:07	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 18:07	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:07	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 18:07	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.4		%	62-133	SW846 8260B		2/12/14 18:07	JPA	A
4-Bromofluorobenzene (S)	96.6		%	79-114	SW846 8260B		2/12/14 18:07	JPA	A
Dibromofluoromethane (S)	81.5		%	78-116	SW846 8260B		2/12/14 18:07	JPA	A
Toluene-d8 (S)	90.7		%	76-127	SW846 8260B		2/12/14 18:07	JPA	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643022**
Sample ID: **058-0122-MW8d**

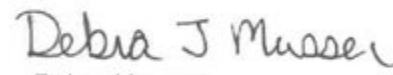
Date Collected: 2/4/2014 09:57
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 21:46	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 21:46	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 21:46	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 21:46	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/12/14 21:46	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 21:46	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 21:46	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 21:46	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 21:46	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		2/12/14 21:46	GLQ	A
4-Bromofluorobenzene (S)	81.3		%	79-114	SW846 8260B		2/12/14 21:46	GLQ	A
Dibromofluoromethane (S)	103		%	78-116	SW846 8260B		2/12/14 21:46	GLQ	A
Toluene-d8 (S)	88.9		%	76-127	SW846 8260B		2/12/14 21:46	GLQ	A

Sample Comments:

A positive residual chlorine result was detected in the preservation check for the volatile organics analysis of this sample. This may be due to the presence of residual chlorine or another oxidizing agent.



Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

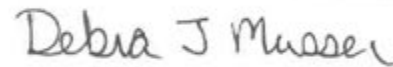
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643023**
 Sample ID: **058-0122-MW9d**

 Date Collected: 2/4/2014 08:47
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:20	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:20	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:20	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 22:20	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/12/14 22:20	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:20	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 22:20	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:20	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:20	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		2/12/14 22:20	GLQ	A
4-Bromofluorobenzene (S)	90.7		%	79-114	SW846 8260B		2/12/14 22:20	GLQ	A
Dibromofluoromethane (S)	111		%	78-116	SW846 8260B		2/12/14 22:20	GLQ	A
Toluene-d8 (S)	96.2		%	76-127	SW846 8260B		2/12/14 22:20	GLQ	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

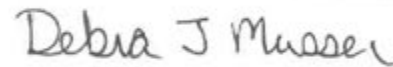
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643024**
 Sample ID: **058-0122-MW10d**

 Date Collected: 2/4/2014 12:41
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:33	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:33	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:33	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 13:33	JPA	A
Naphthalene	ND	2	ug/L	2.0	SW846 8260B		2/12/14 13:33	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:33	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 13:33	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:33	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:33	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		2/12/14 13:33	JPA	A
4-Bromofluorobenzene (S)	93.4		%	79-114	SW846 8260B		2/12/14 13:33	JPA	A
Dibromofluoromethane (S)	83		%	78-116	SW846 8260B		2/12/14 13:33	JPA	A
Toluene-d8 (S)	92.4		%	76-127	SW846 8260B		2/12/14 13:33	JPA	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: 1070643025

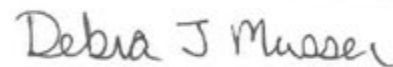
Date Collected: 2/4/2014 13:46

Matrix: Water

Sample ID: 058-0122-MW11d

Date Received: 2/7/2014 09:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:50	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:50	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:50	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 13:50	JPA	A
Naphthalene	ND	2	ug/L	2.0	SW846 8260B		2/12/14 13:50	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:50	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 13:50	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:50	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 13:50	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		2/12/14 13:50	JPA	A
4-Bromofluorobenzene (S)	96.7		%	79-114	SW846 8260B		2/12/14 13:50	JPA	A
Dibromofluoromethane (S)	84.3		%	78-116	SW846 8260B		2/12/14 13:50	JPA	A
Toluene-d8 (S)	93		%	76-127	SW846 8260B		2/12/14 13:50	JPA	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

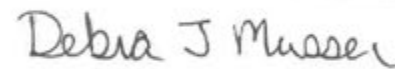
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643026**
 Sample ID: **058-0122-MW12d**

 Date Collected: 2/4/2014 14:37
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 14:07	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 14:07	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 14:07	JPA	A
Methyl t-Butyl Ether	1.4		ug/L	1.0	SW846 8260B		2/12/14 14:07	JPA	A
Naphthalene	ND	2	ug/L	2.0	SW846 8260B		2/12/14 14:07	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 14:07	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 14:07	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 14:07	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 14:07	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B		2/12/14 14:07	JPA	A
4-Bromofluorobenzene (S)	94		%	79-114	SW846 8260B		2/12/14 14:07	JPA	A
Dibromofluoromethane (S)	84		%	78-116	SW846 8260B		2/12/14 14:07	JPA	A
Toluene-d8 (S)	89.4		%	76-127	SW846 8260B		2/12/14 14:07	JPA	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

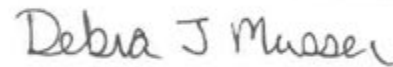
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643027**
 Sample ID: **058-0122-MW13d**

 Date Collected: 2/4/2014 11:02
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:53	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:53	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:53	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 22:53	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/12/14 22:53	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:53	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 22:53	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:53	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 22:53	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B		2/12/14 22:53	GLQ	A
4-Bromofluorobenzene (S)	88.9		%	79-114	SW846 8260B		2/12/14 22:53	GLQ	A
Dibromofluoromethane (S)	109		%	78-116	SW846 8260B		2/12/14 22:53	GLQ	A
Toluene-d8 (S)	94.1		%	76-127	SW846 8260B		2/12/14 22:53	GLQ	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

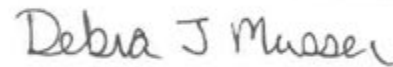
Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: **1070643028**
Sample ID: **058-0122-OW4**

Date Collected: 2/3/2014 13:12
Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:45	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:45	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:45	CJG	A
Methyl t-Butyl Ether	71.9		ug/L	1.0	SW846 8260B		2/11/14 19:45	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/11/14 19:45	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:45	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/11/14 19:45	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:45	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/11/14 19:45	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B		2/11/14 19:45	CJG	A
4-Bromofluorobenzene (S)	100		%	79-114	SW846 8260B		2/11/14 19:45	CJG	A
Dibromofluoromethane (S)	82.9		%	78-116	SW846 8260B		2/11/14 19:45	CJG	A
Toluene-d8 (S)	93		%	76-127	SW846 8260B		2/11/14 19:45	CJG	A

Sample Comments:


Debra Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 1070643 Lewis Brothers Garage/27058

Lab ID: 1070643029


Date Collected: 2/7/2014 09:45

Matrix: Water

Sample ID: 058-0122-Trip Blank

Date Received: 2/7/2014 09:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 19:31	GLQ	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 19:31	GLQ	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 19:31	GLQ	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 19:31	GLQ	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		2/12/14 19:31	GLQ	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 19:31	GLQ	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 19:31	GLQ	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 19:31	GLQ	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 19:31	GLQ	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B		2/12/14 19:31	GLQ	A
4-Bromofluorobenzene (S)	89.9		%	79-114	SW846 8260B		2/12/14 19:31	GLQ	A
Dibromofluoromethane (S)	107		%	78-116	SW846 8260B		2/12/14 19:31	GLQ	A
Toluene-d8 (S)	96		%	76-127	SW846 8260B		2/12/14 19:31	GLQ	A

Sample Comments:


 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

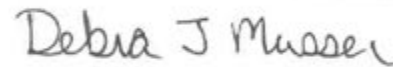
Workorder: 1070643 Lewis Brothers Garage/27058

 Lab ID: **1070643030**
 Sample ID: **058-0122-MW1D**

 Date Collected: 2/5/2014 10:30
 Date Received: 2/7/2014 09:45

Matrix: Water

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:33	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:33	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:33	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		2/12/14 17:33	JPA	A
Naphthalene	ND	2	ug/L	2.0	SW846 8260B		2/12/14 17:33	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:33	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		2/12/14 17:33	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:33	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		2/12/14 17:33	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B		2/12/14 17:33	JPA	A
4-Bromofluorobenzene (S)	94.1		%	79-114	SW846 8260B		2/12/14 17:33	JPA	A
Dibromofluoromethane (S)	82.4		%	78-116	SW846 8260B		2/12/14 17:33	JPA	A
Toluene-d8 (S)	90.7		%	76-127	SW846 8260B		2/12/14 17:33	JPA	A

Sample Comments:

 Debra Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 1070643 Lewis Brothers Garage/27058

PARAMETER QUALIFIERS\FLAGS

- [2] The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 55.8 and the control limits were 56 to 134.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHADY AREAS MUST BE COMPLETED BY THE CLIENT. ALL SAMPLER INSTRUCTIONS ON THE BACK.

34 Dogwood Lane
Middletown, PA 17057
P: 717-944-5541
F: 717-944-1430

Environmental

Client Name: Pennsylvania Testronics, Inc.
Address: 723 Main Street
Arlensburg, PA 18403

Contact: Martin Gillingham
Phone: (570) 487-1958
Project Name #: Lewis Brothers Garage / 27098

Bill To:

TAT Normal Standard TAT is 10-12 business days.
 Rush Subject to ALS approval and surcharges.

Date Required: _____ Approved By: _____
 Email? Y N patlectronics@hotmail.com
 Fax? Y N

1 of 4

/ Receiving Lab)

Cooler Temp. SC Therm ID: H-20 Initial JS

No. of Coolers: _____

Custody Seals Present? _____
 (if present) Seals Intact? _____
 Received on Ice? _____
 CCL Labels Complete/Accurate? _____
 Cont. in Good Cond.? _____
 Correct Containers? _____
 Correct Sample Volumes? _____
 Correct Preservation? _____
 Headspace Volatiles? _____

Courier Tracking #: _____

Sample/COG Comments

Enter Number of Containers Per Sample or Field Results Below.

Sample Description/Location (as it will appear on the report)	Sample Date	Time	Matrix	Containers
1 058-0122-MW2s	2/6/14	1540	G	2
2 058-0122-MW3s	2/6/14	1523	G	2
3 058-0122-MW4s	2/6/14	1452	G	2
4 058-0122-MW5s	2/3/14	1203	G	2
5 058-0122-MW6s	2/3/14	1835	G	2
6 058-0122-MW7s	2/6/14	1303	G	2
7 058-0122-MW8s	2/6/14	1445	G	2
8 058-0122-MW9s	2/6/14	1032	G	2
9 058-0122-MW10s	2/4/14	1201	G	2
10				

ALS Field Services: Labor Pickup Rental Equipment
 Composite Sampling Other: _____

Project Comments: _____

Approved By (signature): _____
 Reviewed By (signature): _____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
2 PA Testronics	2/7/14	0705	JS	2/7/14	0705
3 PA Testronics	2-7-14	0445	JS	2/7/14	0916
5					
7					
9					

Special Processing: USACE Navy NY NJ PA NC

State Samples Collected In

Reportable to PADEP? Yes No

Sample Disposal: Lab Special

PWSID # _____

EDDS: Format Type _____

* Matrix: A=Air, D=Drinking Water, G=Groundwater, O=Oil, OI=Other Liquid, SL=Sludge, SO=Soil, WP=Waste, WW=Wastewater
 * G=Grab, C=Composite

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

COC #: 1070643
 ALS Quote #: 2 of 4

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**
 ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
 SAMPLER. INSTRUCTIONS ON THE BACK.

34 Dogwood Lane
 Middletown, PA 17057
 P: 717-944-5541
 F: 717-944-1430

Client Name: Pennsylvania Technologies, Inc.
 Address: 723 Main Street
 Archbald, PA 18403
 Contact: Marina Gilligan
 Phone#: (570) 487-1959
 Project Name#: Lewis Brothers Garage / 27068
 Bill To:

Container Type: CG
 Container Size: 40 ml
 Residue: HCl

Receipt Information (Completed by Receiving Lab)
 Cooler Temp: SC Therm ID: 11215
 No. of Coolers: 2
 Custody Seals Present? Y
 (if present) Seals Intact? Y
 Received on Ice? Y
 COC Labels Complete/Accurate? Y
 Cont. in Good Cond? Y
 Correct Containers? Y
 Correct Sample Volumes? Y
 Correct Preservation? Y
 Handwritten/Initial? Y

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Sample or Field Results Below.

Sample Description/Location	Sample Date	Time	Matrix	Containers	Comments
1 058-0122-NW11s	2/10/14	1400	GW	2	
2 058-0122-NW12s	2/13/14	1025	GW	2	
3 058-0122-NW13s	2/13/14	1033	GW	2	
4 058-0122-NW14s	2/16/14	0943	GW	2	
5 058-0122-NW15s	2/19/14	0900	GW	2	
6 058-0122-NW17s	2/16/14	0854	GW	2	
7 058-0122-FB1	2/13/14	1445	DI	2	
8 058-0122-FB2	2/4/14	1942	DI	2	
9 058-0122-FB3	2/6/14	1600	DI	2	
0					

ALS Field Services: Pickup Labor
 Composite Sampling Rental Equipment
 Other:

Project Comments:

Relinquished By / Company Name: Date: 2/11/14 Time: 0705
2/11/14 Time: 0905
2/11/14 Time: 0905
2/11/14 Time: 0905

Deliverables: Standard GLP-like USACE

Special Processing: USACE Navy NY NJ PA NC

State Samples Collected In: USACE Navy NY NJ PA NC

Reportable to PADEP? Yes No

Sample Disposal: Lab Special

EDPS: Format Type:

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

34 Dogwood Lane
Middletown, PA 17057
P: 717-944-5541
F: 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

**ALL SIAO AREAS MUST BE COMPLETED BY THE CLIENT.
SAMPLER INSTRUCTIONS ON THE BACK.**

COC #: 1090643
ALS Quote #: 3 of 4

Client Name: Pennsylvania Technics, Inc. Address: 723 Main Street Archbald, PA 15403 Contact: Martin Gilgallon Phone#: (570) 487-1959 Project Name#: Lewis Brothers Garage / 27058 Bill To:	Matrix: Unleaded Gasoline - New List Container Type: CG Volume: 40 ml Preservative: MC1	Receipt Information (Completed by Receiving Lab) Cooler Temp: 45 Therm ID: 1721 No. of Coolers: 1 Custody Seals Present? (if present) Seals Intact? Y Received on Ice? N COC Labels Complete/Accurate? Y Coils in Good Cond? Y Correct Containers? Y Correct Sample Volumes? Y Correct Preservation? Y Headspace/Volatiles? Y	Initials: MG	
ANALYSE METHOD REQUESTED				
Enter Number of Containers Per Sample or Field Results Below.				
Sample Description/Location (as it will appear on the lab report)	Date	Time	Matrix	Sample/COC Comments
1 058-0122-MW1d retained test	2/5/14	1030	GW	2
2 058-0122-MW2d retained test	2/5/14	1120	GW	2
3 058-0122-MW6d	2/5/14	1045	GW	2
4 058-0122-MW7d	2/5/14	1100	GW	2
5 058-0122-MW8d	2/4/14	0957	GW	2
6 058-0122-MW9d	2/4/14	0847	GW	2
7 058-0122-MW10d	2/4/14	1241	GW	2
8 058-0122-MW11d	2/4/14	1346	GW	2
9 058-0122-MW12d	2/4/14	1457	GW	2
10 058-0122-MW13d	2/4/14	1102	GW	2

Requisitioned By/Company Name Martin Gilgallon	Date 02-07-14	Time 0705	Received By/Company Name John Williams	Date 2/7/14	Time 0705
Requisitioned By/Company Name John Williams	Date 2-7-14	Time 0945	Received By/Company Name John Williams	Date 2/7/14	Time 0945
Requisitioned By/Company Name John Williams	Date 2-7-14	Time 0945	Received By/Company Name John Williams	Date 2/7/14	Time 0945
Requisitioned By/Company Name John Williams	Date 2-7-14	Time 0945	Received By/Company Name John Williams	Date 2/7/14	Time 0945
Requisitioned By/Company Name John Williams	Date 2-7-14	Time 0945	Received By/Company Name John Williams	Date 2/7/14	Time 0945

Project Comments:	Logged By/Signature: [Signature]	Date: 2/7/14	Time: 0705	Received By/Signature: [Signature]	Date: 2/7/14	Time: 0705
-------------------	---	---------------------	-------------------	---	---------------------	-------------------

Data Deliverables	X Standard <input checked="" type="checkbox"/> GLP like <input type="checkbox"/> USACE <input type="checkbox"/>	Special Processing USACE <input type="checkbox"/> Navy <input type="checkbox"/>	State Samples Collected In <input type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input checked="" type="checkbox"/> NC <input type="checkbox"/>
Reportable to PADEP? Yes <input type="checkbox"/> No <input type="checkbox"/>	Sample Disposal Lab <input type="checkbox"/> Special <input type="checkbox"/>	PWSID #	ED06: Format Type

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

COC #: 1070643
 ALS Quote #: 4 of 4

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**
 ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
 SAMPLER. INSTRUCTIONS ON THE BACK.

34 Dogwood Lane
 Middletown, PA 17057
 P. 717-944-5541
 F. 717-944-1430

ALS Environmental

Client Name: Pennsylvania Teatronics, Inc.		Company Type: CG		Receipt Information (completed by Receiving Lab)	
Address: 723 Main Street		Company Size: 40 ml		Cooler Temp: SC Therm ID: HAZ	
Ardubald, PA 18403		Presence: KCI		No. of Coolers: Y N Initial: HAZ	
Contact: Martin Gligation		ANALYSIS METHOD REQUESTED		Custody Seals Present? (if present) Seals Intact? Received on Ice? COC Labels Complete/Accurate? Cont. in Good Cond.? Correct Containers? Correct Sample Volume? Correct Preservation? Headspace/Volatility?	
Phone: (570) 487-1938		Matrix: G		Courier Tracking #: []	
Project Name: Lewis Brothers Garage / 27058		Enter Number of Containers Per Sample or Field Results Below.		Sample/COC Comments	
Bill To:		Matrix: G		[]	
TAT: <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		Matrix: G		[]	
Date Required: Approved By:		Matrix: G		[]	
Email: Y Y patectronics@hotmail.com		Matrix: G		[]	
Fax: Y No.		Matrix: G		[]	
Sample Description/Location (as it will appear on the lab report)		Matrix: G		[]	
1 058-0122-0104	2/2/14 1312	2	GW	2	(Unleaded Gasoline - New List)
5 058-0122-Trip Blank	N/A N/A	2	DI	2	
6					
7					
8					
9					
10					
Project Comments: Trip Blank was prepared at Laboratory. (LOGGED BY SIGNATURE)		RECEIVED BY SIGNATURE: [Signature]		ALS Field Services: Composite Sampling Rental Equipment Other:	
Relinquished By / Company Name		Date		Time	
3 PA Patectronics		3/1/14		0705	
5 [Signature]		2/2/14		0705	
7					
9					
State Samples Collected In		Special Processing		Sample Disposal	
NY NJ PA NC		USACE Navy		Lab Special	
PA		USACE		Reportable to PADEP? Yes	
PA		USACE		PWSID #	
PA		USACE		EDDS: Format Type	

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

ALS Environmental Laboratory Locations Across North America

- Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Groundwater Sampling Analytical Data Sheets

June 2, 3 & 4, 2014

June 11, 2014

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name:	27058 Lewis Brothers Garage	Workorder:	2011043
Purchase Order:		Workorder ID:	27058 Lewis Brothers Garage

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, June 6, 2014.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

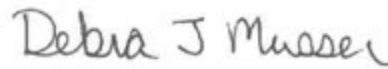
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2011043 27058 Lewis Brothers Garage

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2011043001	058-0602-MW1s	Water	6/2/2014 15:29	6/6/2014 14:45	Collected by Client
2011043002	058-0602-MW2s	Water	6/2/2014 13:08	6/6/2014 14:45	Collected by Client
2011043003	058-0602-MW3s	Water	6/2/2014 13:36	6/6/2014 14:45	Collected by Client
2011043004	058-0602-MW4s	Water	6/2/2014 15:51	6/6/2014 14:45	Collected by Client
2011043005	058-0602-MW5s	Water	6/2/2014 15:45	6/6/2014 14:45	Collected by Client
2011043006	058-0602-MW6s	Water	6/2/2014 15:09	6/6/2014 14:45	Collected by Client
2011043007	058-0602-MW7s	Water	6/4/2014 10:14	6/6/2014 14:45	Collected by Client
2011043008	058-0602-MW8s	Water	6/4/2014 09:30	6/6/2014 14:45	Collected by Client
2011043009	058-0602-MW9s	Water	6/4/2014 11:00	6/6/2014 14:45	Collected by Client
2011043010	058-0602-MW10s	Water	6/4/2014 13:27	6/6/2014 14:45	Collected by Client
2011043011	058-0602-MW11s	Water	6/4/2014 14:08	6/6/2014 14:45	Collected by Client
2011043012	058-0602-MW12s	Water	6/2/2014 14:28	6/6/2014 14:45	Collected by Client
2011043013	058-0602-MW13s	Water	6/2/2014 14:45	6/6/2014 14:45	Collected by Client
2011043014	058-0602-MW14s	Water	6/3/2014 14:42	6/6/2014 14:45	Collected by Client
2011043015	058-0602-MW15s	Water	6/2/2014 09:45	6/6/2014 14:45	Collected by Client
2011043016	058-0602-MW16s	Water	6/2/2014 14:04	6/6/2014 14:45	Collected by Client
2011043017	058-0602-MW17s	Water	6/4/2014 12:05	6/6/2014 14:45	Collected by Client
2011043018	058-0602-FB1	Water	6/2/2014 16:36	6/6/2014 14:45	Collected by Client
2011043019	058-0602-FB2	Water	6/3/2014 15:01	6/6/2014 14:45	Collected by Client
2011043020	058-0602-FB3	Water	6/4/2014 14:15	6/6/2014 14:45	Collected by Client
2011043021	058-0602-MW1d	Water	6/4/2014 07:36	6/6/2014 14:45	Collected by Client
2011043022	058-0602-MW2d	Water	6/4/2014 08:23	6/6/2014 14:45	Collected by Client
2011043023	058-0602-MW6d	Water	6/4/2014 08:03	6/6/2014 14:45	Collected by Client
2011043024	058-0602-MW7d	Water	6/4/2014 08:12	6/6/2014 14:45	Collected by Client
2011043025	058-0602-MW8d	Water	6/3/2014 08:05	6/6/2014 14:45	Collected by Client
2011043026	058-0602-MW9d	Water	6/3/2014 09:23	6/6/2014 14:45	Collected by Client
2011043027	058-0602-MW10d	Water	6/3/2014 11:50	6/6/2014 14:45	Collected by Client
2011043028	058-0602-MW11d	Water	6/3/2014 12:40	6/6/2014 14:45	Collected by Client
2011043029	058-0602-MW12d	Water	6/3/2014 13:38	6/6/2014 14:45	Collected by Client
2011043030	058-0602-MW13d	Water	6/3/2014 10:24	6/6/2014 14:45	Collected by Client
2011043031	058-0602-OW4	Water	6/2/2014 12:01	6/6/2014 14:45	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 2011043 27058 Lewis Brothers Garage

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



PROJECT SUMMARY

Workorder: 2011043 27058 Lewis Brothers Garage

Sample Comments

Lab ID: 2011043002 **Sample ID:** 058-0602-MW2s **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2011043003 **Sample ID:** 058-0602-MW3s **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2011043004 **Sample ID:** 058-0602-MW4s **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2011043011 **Sample ID:** 058-0602-MW11s **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

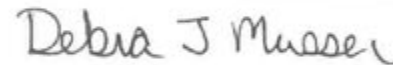
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: **2011043001**
 Sample ID: **058-0602-MW1s**

 Date Collected: 6/2/2014 15:29 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B	6/10/14 CJG	6/10/14 04:23	CJG	A



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

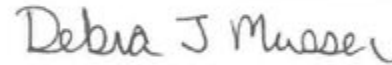
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043002
 Sample ID: 058-0602-MW2s

 Date Collected: 6/2/2014 13:08 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	1840		ug/L	50.0	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
Ethylbenzene	1580		ug/L	50.0	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
Isopropylbenzene	112		ug/L	50.0	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
Methyl t-Butyl Ether	346		ug/L	50.0	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
Naphthalene	319		ug/L	100	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
Toluene	4160		ug/L	50.0	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
Total Xylenes	8310		ug/L	150	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
1,2,4-Trimethylbenzene	2540		ug/L	50.0	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
1,3,5-Trimethylbenzene	639		ug/L	50.0	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.5		%	62 - 133	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
4-Bromofluorobenzene (S)	96.4		%	79 - 114	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
Dibromofluoromethane (S)	100		%	78 - 116	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B	6/10/14 CJG	6/10/14 05:08	CJG	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

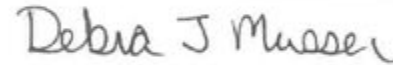
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043003
 Sample ID: 058-0602-MW3s

 Date Collected: 6/2/2014 13:36 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	6670		ug/L	100	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
Ethylbenzene	1760		ug/L	100	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
Isopropylbenzene	123		ug/L	100	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
Methyl t-Butyl Ether	894		ug/L	100	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
Naphthalene	354		ug/L	200	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
Toluene	16200		ug/L	100	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
Total Xylenes	12800		ug/L	300	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
1,2,4-Trimethylbenzene	2060		ug/L	100	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
1,3,5-Trimethylbenzene	538		ug/L	100	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.1		%	62 - 133	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
4-Bromofluorobenzene (S)	99		%	79 - 114	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
Dibromofluoromethane (S)	97.2		%	78 - 116	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A
Toluene-d8 (S)	95.8		%	76 - 127	SW846 8260B	6/10/14 CJG	6/10/14 05:31	CJG	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

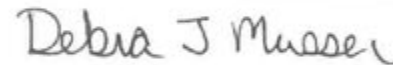
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: **2011043004**
 Sample ID: **058-0602-MW4s**

 Date Collected: 6/2/2014 15:51 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	48.3		ug/L	25.0	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
Ethylbenzene	284		ug/L	25.0	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
Isopropylbenzene	35.2		ug/L	25.0	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
Methyl t-Butyl Ether	1180		ug/L	25.0	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
Naphthalene	ND		ug/L	50.0	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
Toluene	40.1		ug/L	25.0	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
Total Xylenes	269		ug/L	75.0	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
1,2,4-Trimethylbenzene	214		ug/L	25.0	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	25.0	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
4-Bromofluorobenzene (S)	95.4		%	79 - 114	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B	6/10/14 CJG	6/10/14 04:46	CJG	A



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

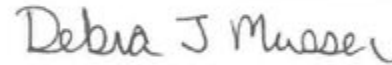
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043005
 Sample ID: 058-0602-MW5s

 Date Collected: 6/2/2014 15:45 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
Methyl t-Butyl Ether	4.9	1	ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
Dibromofluoromethane (S)	109		%	78 - 116	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A
Toluene-d8 (S)	108		%	76 - 127	SW846 8260B	6/10/14 CJG	6/10/14 02:53	CJG	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

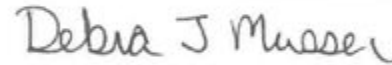
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043006
 Sample ID: 058-0602-MW6s

 Date Collected: 6/2/2014 15:09 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
4-Bromofluorobenzene (S)	107		%	79 - 114	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
Dibromofluoromethane (S)	104		%	78 - 116	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B	6/10/14 CJG	6/10/14 03:16	CJG	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

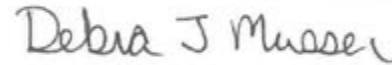
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043007
 Sample ID: 058-0602-MW7s

 Date Collected: 6/4/2014 10:14 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
Methyl t-Butyl Ether	ND	1	ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
4-Bromofluorobenzene (S)	91.2		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
Dibromofluoromethane (S)	81.8		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A
Toluene-d8 (S)	92.7		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 18:31	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

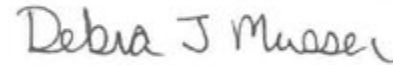
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043008
 Sample ID: 058-0602-MW8s

 Date Collected: 6/4/2014 09:30 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
4-Bromofluorobenzene (S)	91.8		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
Dibromofluoromethane (S)	83.2		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A
Toluene-d8 (S)	93.8		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 18:53	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

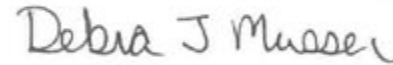
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043009
 Sample ID: 058-0602-MW9s

 Date Collected: 6/4/2014 11:00 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
4-Bromofluorobenzene (S)	91.9		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
Dibromofluoromethane (S)	82.6		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A
Toluene-d8 (S)	93.4		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 19:15	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

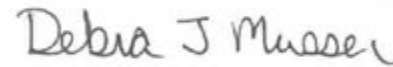
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043010
 Sample ID: 058-0602-MW10s

 Date Collected: 6/4/2014 13:27 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
4-Bromofluorobenzene (S)	91.2		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
Dibromofluoromethane (S)	81.6		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A
Toluene-d8 (S)	93.6		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 19:37	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

Lab ID: 2011043011

Date Collected: 6/4/2014 14:08 Matrix: Water

Sample ID: 058-0602-MW11s

Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	428		ug/L	5.0	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
Ethylbenzene	599		ug/L	5.0	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
Isopropylbenzene	46.9		ug/L	5.0	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
Methyl t-Butyl Ether	119		ug/L	5.0	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
Naphthalene	83.2		ug/L	10.0	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
Toluene	241		ug/L	5.0	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
Total Xylenes	1620		ug/L	15.0	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
1,2,4-Trimethylbenzene	517		ug/L	5.0	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
1,3,5-Trimethylbenzene	162		ug/L	5.0	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
4-Bromofluorobenzene (S)	93.3		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
Dibromofluoromethane (S)	80.1		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A
Toluene-d8 (S)	96.3		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 19:59	JPA	A



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

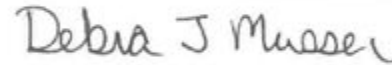
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043012
 Sample ID: 058-0602-MW12s

 Date Collected: 6/2/2014 14:28 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	147		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
Ethylbenzene	19.5		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
Isopropylbenzene	3.5		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
Methyl t-Butyl Ether	37.3		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
Toluene	9.1		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
Total Xylenes	20.8		ug/L	3.0	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
1,2,4-Trimethylbenzene	2.2		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62 - 133	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
4-Bromofluorobenzene (S)	108		%	79 - 114	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
Dibromofluoromethane (S)	99.1		%	78 - 116	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B	6/10/14 CJG	6/10/14 03:38	CJG	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

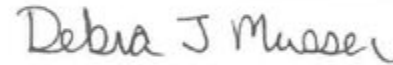
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

Lab ID: 2011043013
Sample ID: 058-0602-MW13s

Date Collected: 6/2/2014 14:45 Matrix: Water
Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
Dibromofluoromethane (S)	105		%	78 - 116	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B	6/10/14 CJG	6/10/14 04:01	CJG	A


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

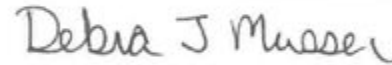
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043014
 Sample ID: 058-0602-MW14s

 Date Collected: 6/3/2014 14:42 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
4-Bromofluorobenzene (S)	93.1		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
Dibromofluoromethane (S)	81.2		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A
Toluene-d8 (S)	93.3		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 20:21	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

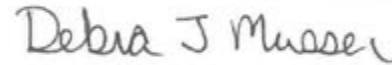
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043015
 Sample ID: 058-0602-MW15s

 Date Collected: 6/2/2014 09:45 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
Naphthalene	ND	1	ug/L	2.0	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	83.9		%	62 - 133	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
4-Bromofluorobenzene (S)	98.9		%	79 - 114	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
Dibromofluoromethane (S)	82.9		%	78 - 116	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A
Toluene-d8 (S)	95.7		%	76 - 127	SW846 8260B	6/9/14 TMP	6/9/14 20:14	TMP	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

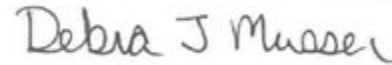
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043016
 Sample ID: 058-0602-MW16s

 Date Collected: 6/2/2014 14:04 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
Naphthalene	ND	1	ug/L	2.0	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85.3		%	62 - 133	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
4-Bromofluorobenzene (S)	98.7		%	79 - 114	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
Dibromofluoromethane (S)	84.5		%	78 - 116	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A
Toluene-d8 (S)	96.2		%	76 - 127	SW846 8260B	6/9/14 TMP	6/9/14 20:58	TMP	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

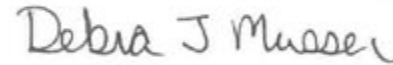
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043017
 Sample ID: 058-0602-MW17s

 Date Collected: 6/4/2014 12:05 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
4-Bromofluorobenzene (S)	93		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
Dibromofluoromethane (S)	82.6		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A
Toluene-d8 (S)	94.9		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 20:42	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

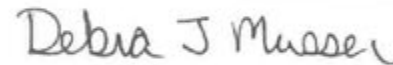
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043018
 Sample ID: 058-0602-FB1

 Date Collected: 6/2/2014 16:36 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62 - 133	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
4-Bromofluorobenzene (S)	94.5		%	79 - 114	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
Dibromofluoromethane (S)	95.3		%	78 - 116	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B	6/11/14 CJG	6/11/14 00:10	CJG	A



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

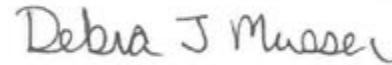
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043019
 Sample ID: 058-0602-FB2

 Date Collected: 6/3/2014 15:01 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
4-Bromofluorobenzene (S)	91.9		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
Dibromofluoromethane (S)	82.3		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A
Toluene-d8 (S)	93.9		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 14:29	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

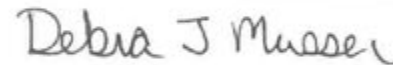
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043020
 Sample ID: 058-0602-FB3

 Date Collected: 6/4/2014 14:15 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
4-Bromofluorobenzene (S)	106		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
Dibromofluoromethane (S)	107		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A
Toluene-d8 (S)	98.6		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 14:34	JPA	A



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

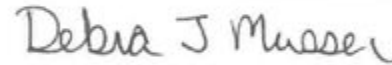
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: **2011043021**
 Sample ID: **058-0602-MW1d**

 Date Collected: 6/4/2014 07:36 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
Dibromofluoromethane (S)	103		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 16:28	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

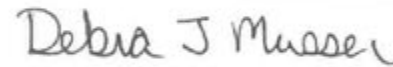
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043022
 Sample ID: 058-0602-MW2d

 Date Collected: 6/4/2014 08:23 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	7.1		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
Ethylbenzene	26.9		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
Isopropylbenzene	4.6		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
Methyl t-Butyl Ether	5.4		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
Toluene	3.4		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
Total Xylenes	9.0		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
1,2,4-Trimethylbenzene	1.3		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
4-Bromofluorobenzene (S)	102		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
Dibromofluoromethane (S)	96.4		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A
Toluene-d8 (S)	105		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 16:50	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

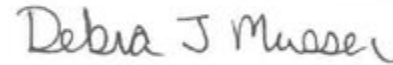
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043023
 Sample ID: 058-0602-MW6d

 Date Collected: 6/4/2014 08:03 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
4-Bromofluorobenzene (S)	106		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 17:13	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

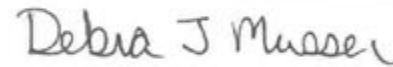
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: **2011043024**
 Sample ID: **058-0602-MW7d**

 Date Collected: 6/4/2014 08:12 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
Methyl t-Butyl Ether	4.8		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A
Toluene-d8 (S)	96.7		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 17:35	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

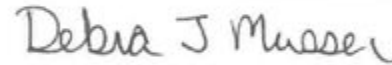
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043025
 Sample ID: 058-0602-MW8d

 Date Collected: 6/3/2014 08:05 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
Dibromofluoromethane (S)	103		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A
Toluene-d8 (S)	99.9		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 17:58	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

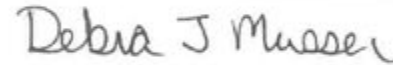
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043026
 Sample ID: 058-0602-MW9d

 Date Collected: 6/3/2014 09:23 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A
Toluene-d8 (S)	94.8		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 18:21	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

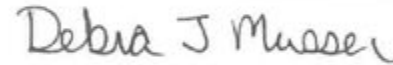
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

Lab ID: 2011043027
Sample ID: 058-0602-MW10d

Date Collected: 6/3/2014 11:50 Matrix: Water
Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
4-Bromofluorobenzene (S)	107		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
Dibromofluoromethane (S)	106		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A
Toluene-d8 (S)	96.2		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 18:44	JPA	A



Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

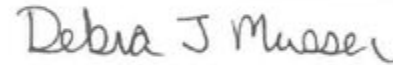
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043028
 Sample ID: 058-0602-MW11d

 Date Collected: 6/3/2014 12:40 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
4-Bromofluorobenzene (S)	97.8		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 19:06	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

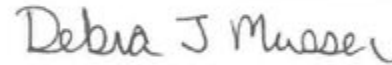
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043029
 Sample ID: 058-0602-MW12d

 Date Collected: 6/3/2014 13:38 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
Methyl t-Butyl Ether	1.7		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A
Toluene-d8 (S)	96.6		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 19:29	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

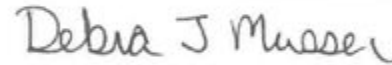
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043030
 Sample ID: 058-0602-MW13d

 Date Collected: 6/3/2014 10:24 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62 - 133	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
4-Bromofluorobenzene (S)	106		%	79 - 114	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
Dibromofluoromethane (S)	99.7		%	78 - 116	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A
Toluene-d8 (S)	98		%	76 - 127	SW846 8260B	6/10/14 JPA	6/10/14 19:52	JPA	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

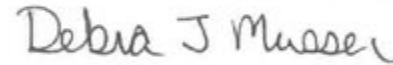
ANALYTICAL RESULTS

Workorder: 2011043 27058 Lewis Brothers Garage

 Lab ID: 2011043031
 Sample ID: 058-0602-OW4

 Date Collected: 6/2/2014 12:01 Matrix: Water
 Date Received: 6/6/2014 14:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	2.0		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
Methyl t-Butyl Ether	83.2		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
Naphthalene	ND	1	ug/L	2.0	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85		%	62 - 133	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
4-Bromofluorobenzene (S)	99.4		%	79 - 114	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
Dibromofluoromethane (S)	83.7		%	78 - 116	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A
Toluene-d8 (S)	97		%	76 - 127	SW846 8260B	6/9/14 TMP	6/9/14 20:36	TMP	A


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

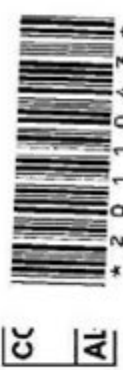
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

PARAMETER QUALIFIERS

#	Lab ID	Sample ID	Analytical Method	Analyte
1	2011043005	058-0602-MW5s	SW846 8260B	Methyl t-Butyl Ether
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 117 and the control limits were 69 to 115.				
1	2011043007	058-0602-MW7s	SW846 8260B	Methyl t-Butyl Ether
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 121 and the control limits were 69 to 115.				
1	2011043015	058-0602-MW15s	SW846 8260B	Naphthalene
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 38.8 and the control limits were 56 to 134.				
1	2011043016	058-0602-MW16s	SW846 8260B	Naphthalene
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 38.8 and the control limits were 56 to 134.				
1	2011043031	058-0602-OW4	SW846 8260B	Naphthalene
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 38.8 and the control limits were 56 to 134.				

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: Pennsylvania Tectonics, Inc.
Address: 723 Main Street
Archbald, PA 18403
Contact: Marlin Gilgallon
Phone#: (570) 487-1959
Project Name#: Lewis Brothers Garage / 27058
Bill To:

TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Date Required: _____ Approved By: _____
 Email? Y N patectonics@hotmail.com
 Fax? Y N No.:

Sample Description/Location <small>(as it will appear on the lab report)</small>	Sample Date	Time	Matrix	Containers	Per Sample or Field Results Below.
1 058-0602-MW1s	6/2/14	1529	GW	2	
2 058-0602-MW2s	6/2/14	1308	GW	2	
3 058-0602-MW3s	6/2/14	1336	GW	2	
4 058-0602-MW4s	6/2/14	1551	GW	2	
5 058-0602-MW5s	6/2/14	1545	GW	2	
6 058-0602-MW6s	6/2/14	1509	GW	2	
7 058-0602-MW7s	6/4/14	1014	GW	2	
8 058-0602-MW8s	6/4/14	0930	GW	2	
9 058-0602-MW9s	6/4/14	1100	GW	2	
10 058-0602-MW10s	6/4/14	1327	GW	2	

Container Type: CG
Container Size: 40 ml
Preservative: HCI

ANALYSES/METHOD REQUESTED

Unleaded Gasoline - New List

Enter Number of Containers Per Sample or Field Results Below.

Project Name: _____
 Date: _____
 Time: _____
 Received By / Company Name: *[Signature]*
 Date: 6/5/14 1400
 2 Fed Ex Ground
 4 Allegro Trailers MS
 6
 8
 10

Relinquished By / Company Name: *[Signature]*
 Date: 6/5/14 1400
 Time: 1400

Project Comments: _____

LOGGED BY (signature): *[Signature]* 6/6/14 1423
 REVIEWED BY (signature): _____

State Samples Collected in: NY NJ PA NC

Special Processing: USACE Navy
 Reportable to PADEP? Yes No
 PWSID #: _____
 EDDS: Format Type: _____



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2011043
ALS Quote #: _____
2 of 4

Client Name: Pennsylvania Tectonics, Inc.		Container Type	CG	Receipt Information (completed by Receiving Lab)	
Address: 723 Main Street		Container Size	40 ml	Cooler Temp: <u>6°C</u>	Therm ID: <u>FH291</u>
Archbald, PA 18403		Receivable	HCI	No. of Coolers: _____	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Initial <u>MSF</u>
Contact: Martin Gligallon		ANALYSES/METHOD REQUESTED			
Phone#: (570) 487-1959					
Project Name#: Lewis Brothers Garage / 27058		Enter Number of Containers Per Sample or Field Results Below.			
Bill To:		Unleaded Gasoline - New List		Samples/COC Comments	
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.		*Matrix		Courier/Tracking #: <u>770206934285</u>	
Date Required: _____		*G		ALS Field Services: <u> </u> Pickup <u> </u> Labor <u> </u>	
Email? <input checked="" type="checkbox"/> <u>Y</u> - <u>Y</u> patectonics@hotmail.com		*C		Composite Sampling <u> </u> Rental Equipment <u> </u>	
Fax? <input type="checkbox"/> <u> </u> No.:		*R		Other: _____	
Approved By: _____		*O		Special Processing	
Date Required: _____		*L		USACE <input type="checkbox"/>	
Date Required: _____		*D		Navy <input type="checkbox"/>	
Date Required: _____		*I		Sample Disposal	
Date Required: _____		*S		Lab <input type="checkbox"/>	
Date Required: _____		*M		Special <input type="checkbox"/>	
Date Required: _____		*W		Reportable to PADEP? Yes <input type="checkbox"/>	
Date Required: _____		*A		PWSID # _____	
Date Required: _____		*P		EDDS: Format Type _____	
Date Required: _____		*S		State Samples Collected In	
Date Required: _____		*M		NY <input type="checkbox"/>	
Date Required: _____		*A		NJ <input type="checkbox"/>	
Date Required: _____		*P		PA <input checked="" type="checkbox"/>	
Date Required: _____		*S		NC <input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M		<input type="checkbox"/>	
Date Required: _____		*A		<input type="checkbox"/>	
Date Required: _____		*P		<input type="checkbox"/>	
Date Required: _____		*S		<input type="checkbox"/>	
Date Required: _____		*M			



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2011043 3 of 4
ALS Quote #:

Client Name: Pennsylvanica Tectonics, Inc.		Container Type: CG	Receipt Information (completed by Receiving Lab)	
Address: 723 Main Street		Container Size: 40 ml	Cooler Temp: <u>6°C</u>	Therm ID: <u>JTB21</u>
Archbald, PA 18403		Preservative: HCI	No. of Coolers: <u>1</u>	Y/N Initial: <u>MB</u>
Contact: Martin Gallagher		ANALYSES/METHOD REQUESTED		
Phone#: (570) 487-1959				
Project Name/#: Lewis Brothers Garage / 27058		Enter Number of Containers Per Sample or Field Results Below.		
Bill To:		Unleaded Gasoline - New List		
TAT: <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.		Matrix: <u>G</u>		
Date Required: _____ Approved By: _____		Sampler/COC Comments: <u>770200934285</u>		
Email? <u>Y</u> <u>.Y</u> <u>patectonics@hotmail.com</u>		ALS Field Services: <u>Composite Sampling</u> <u>Pickup</u> <u>Labor</u>		
Fax? <u>Y</u> <u>No.</u>		<u>Rental Equipment</u> <u>Other:</u>		
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	
1 058-0602-MW1d		6/4/14	0736	
2 058-0602-MW2d		6/4/14	0823	
3 058-0602-MW6d		6/4/14	0803	
4 058-0602-MW7d		6/4/14	0812	
5 058-0602-MW8d		6/3/14	0805	
6 058-0602-MW9d		6/3/14	0923	
7 058-0602-MW10d		6/3/14	1150	
8 058-0602-MW11d		6/3/14	1240	
9 058-0602-MW12d		6/3/14	1338	
10 058-0602-MW13d		6/3/14	1024	
Project Comments:		LOGGED BY (signature): <u>[Signature]</u> <u>6/6/14</u>		
		REVIEWED BY (signature): <u>[Signature]</u> <u>6/6/14</u>		
Relinquished By / Company Name	Date	Time	Received By / Company Name	Date
1 <u>Tr. Pte. / PA Tectonics</u>	6/5/14	1400	2 <u>Fed Ex Grand</u>	
3 <u>[Signature]</u>			4 <u>Magnet Family ALS</u>	6-6-14 1445
5			6	
7			8	
9			10	
Data Deliverables		Special Processing		
<input checked="" type="checkbox"/> Standard		<input type="checkbox"/> USACE		
<input type="checkbox"/> CLP-like		<input type="checkbox"/> Navy		
<input type="checkbox"/> USACE		<input type="checkbox"/> State Samples Collected In		
<input type="checkbox"/>		<input type="checkbox"/> NY		
<input type="checkbox"/>		<input type="checkbox"/> NJ		
<input type="checkbox"/>		<input checked="" type="checkbox"/> PA		
<input type="checkbox"/>		<input type="checkbox"/> NC		
Reportable to PADEP?		Sample Disposal		
Yes <input type="checkbox"/>		Lab <input type="checkbox"/>		
PWSID #		Special <input type="checkbox"/>		
EDDS: Formal Type-				

* G=Grab; C=Composite **Matrix: A=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057
Rev 10/11



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2011043 4 of 4
ALS Quote #:

Client Name: Pennsylvania Tectonics, Inc.		Container Type: CG	Receipt Information (completed by Receiving Lab)	
Address: 723 Main Street		Container Size: 40 ml	Cooler Temp: <u>UCL</u> Therm ID: <u>TH291</u>	
Contact: Marin Gligallon		Preservative: HCl	No. of Coolers: <u>Y</u> <u>N</u> Initial <u>MG</u>	
Phone#: (570) 487-1959		Custody Seals Present? <input checked="" type="checkbox"/> (if present) Seals Intact? <input checked="" type="checkbox"/>		
Project Name#: Lewis Brothers Garage / 27058		Received on Ice? <input type="checkbox"/>		
Bill To:		COC Labels Complete/Accurate? <input type="checkbox"/>		
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.		Cont. in Good Cond.? <input type="checkbox"/>		
Date Required: _____ Rush-Subject to ALS approval and surcharges.		Correct Containers? <input type="checkbox"/>		
Email? <input checked="" type="checkbox"/> <u>Y</u> <u>Y</u> <u>patectonics@hotmail.com</u> Approved By: _____		Correct Sample Volumes? <input type="checkbox"/>		
Fax? <input type="checkbox"/> <u>-Y</u> No: _____		Correct Preservation? <input type="checkbox"/>		
Sample Description/Location (as it will appear on the lab report)		Headspace/Volatiles? <input type="checkbox"/>		
1 058-0602-OW4	Sample Date: <u>6/2/14</u>	Time: <u>1201</u>	Courier/Tracking #: <u>770200934285</u>	
2			Sample/COC Comments	
3				
4				
5				
6				
7				
8				
9			ALS Field Services: <u> </u> Pickup <u> </u> Labor <u> </u>	
10			<u> </u> Composite Sampling <u> </u> Rental Equipment <u> </u>	
Project Comments:		ALS Field Services: <u> </u> Pickup <u> </u> Labor <u> </u>		
		<u> </u> Composite Sampling <u> </u> Rental Equipment <u> </u>		
		<u> </u> Other: _____		
Relinquished By / Company Name		Special Processing		State Samples Collected In
<u>By Hwy / PA Tectonics</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE		<input type="checkbox"/> NY
Date: <u>6/5/14</u> Time: <u>1400</u>		Navy <input type="checkbox"/> USACE <input type="checkbox"/>		<input type="checkbox"/> NJ
Received By / Company Name		Reportable to PADEP? <input type="checkbox"/>		<input checked="" type="checkbox"/> PA
<u>Fed Ex Ground</u>		Yes <input type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/> NC
Date: <u>6-6-14</u> Time: <u>1445</u>		Sample Disposal		<input type="checkbox"/>
Received By / Company Name		Lab <input type="checkbox"/>		<input type="checkbox"/>
<u>Mighty Power by AL</u>		Special <input type="checkbox"/>		<input type="checkbox"/>
Date: _____ Time: _____		PWSID # _____		<input type="checkbox"/>
Received By / Company Name		EDDS: Format Type: _____		<input type="checkbox"/>
<u>PA Tectonics</u>		_____		<input type="checkbox"/>

LOGGED BY (signature): _____ DATE: 6/6/14 TIME: 1445
REVIEWED BY (signature): _____

* G=Grab, C=Composite **Matrix - AL=Air, DW=Drinking Water, GW=Groundwater, OL=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WYP=Waste, WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 10/11



Groundwater Sampling Analytical Data Sheets

November 21, 22, 23 & 24, 2014

December 4, 2014

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name:	Routine Sample Submission	Workorder:	2041838
Purchase Order:		Workorder ID:	Lewis Brothers Garage/27058

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, November 25, 2014.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

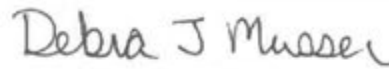
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2041838 Lewis Brothers Garage/27058

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2041838001	058-1119-MW-1s	Ground Water	11/21/2014 07:29	11/25/2014 07:20	Collected by Client
2041838002	058-1119-MW-4s	Ground Water	11/21/2014 14:40	11/25/2014 07:20	Collected by Client
2041838003	058-1119-MW-5s	Ground Water	11/21/2014 14:23	11/25/2014 07:20	Collected by Client
2041838004	058-119-MW5s-Dup	Ground Water	11/21/2014 14:23	11/25/2014 07:20	Collected by Client
2041838005	058-119-MW7s	Ground Water	11/21/2014 10:00	11/25/2014 07:20	Collected by Client
2041838006	058-119-MW8s	Ground Water	11/21/2014 08:32	11/25/2014 07:20	Collected by Client
2041838007	058-119-MW9s	Ground Water	11/21/2014 11:06	11/25/2014 07:20	Collected by Client
2041838008	058-119-MW10s	Ground Water	11/21/2014 15:03	11/25/2014 07:20	Collected by Client
2041838009	058-119-MW11s	Ground Water	11/21/2014 14:09	11/25/2014 07:20	Collected by Client
2041838010	058-119-MW12s	Ground Water	11/21/2014 14:53	11/25/2014 07:20	Collected by Client
2041838011	058-119-MW13s	Ground Water	11/21/2014 13:20	11/25/2014 07:20	Collected by Client
2041838012	058-119-MW14s	Ground Water	11/21/2014 13:09	11/25/2014 07:20	Collected by Client
2041838013	058-119-MW15s	Ground Water	11/21/2014 11:20	11/25/2014 07:20	Collected by Client
2041838014	058-119-MW16s	Ground Water	11/21/2014 13:43	11/25/2014 07:20	Collected by Client
2041838015	058-119-MW17s	Ground Water	11/21/2014 15:23	11/25/2014 07:20	Collected by Client
2041838016	058-119-OW4	Ground Water	11/21/2014 15:10	11/25/2014 07:20	Collected by Client
2041838017	058-119-FB1	Ground Water	11/21/2014 15:04	11/25/2014 07:20	Collected by Client
2041838018	058-119-FB2	Ground Water	11/21/2014 15:36	11/25/2014 07:20	Collected by Client
2041838019	058-119-FB3	Ground Water	11/21/2014 15:15	11/25/2014 07:20	Collected by Client
2041838020	058-1119-MW1d	Ground Water	11/21/2014 07:29	11/25/2014 07:20	Collected by Client
2041838021	058-1119-MW2d	Ground Water	11/21/2014 08:20	11/25/2014 07:20	Collected by Client
2041838022	058-1119-MW6d	Ground Water	11/21/2014 07:40	11/25/2014 07:20	Collected by Client
2041838023	058-1119-MW7d	Ground Water	11/21/2014 08:03	11/25/2014 07:20	Collected by Client
2041838024	058-1119-MW7d Dup	Ground Water	11/21/2014 08:03	11/25/2014 07:20	Collected by Client
2041838025	058-1119-MW8d	Ground Water	11/21/2014 09:12	11/25/2014 07:20	Collected by Client
2041838026	058-1119-MW9d	Ground Water	11/21/2014 10:19	11/25/2014 07:20	Collected by Client
2041838027	058-1119-MW9d Dup	Ground Water	11/21/2014 10:19	11/25/2014 07:20	Collected by Client
2041838028	058-1119-MW10d	Ground Water	11/21/2014 11:38	11/25/2014 07:20	Collected by Client
2041838029	058-1119-MW11d	Ground Water	11/21/2014 12:41	11/25/2014 07:20	Collected by Client
2041838030	058-1119-MW12d	Ground Water	11/21/2014 15:05	11/25/2014 07:20	Collected by Client
2041838031	058-1119-MW13d	Ground Water	11/21/2014 13:58	11/25/2014 07:20	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2041838 Lewis Brothers Garage/27058

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



PROJECT SUMMARY

Workorder: 2041838 Lewis Brothers Garage/27058

Sample Comments

Lab ID: 2041838002 **Sample ID:** 058-1119-MW-4s **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2041838008 **Sample ID:** 058-119-MW10s **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2041838031 **Sample ID:** 058-1119-MW13d **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

ALS Environmental Laboratory Locations Across North America

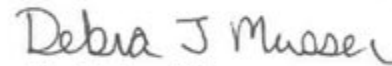
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838001** Date Collected: 11/21/2014 07:29 Matrix: Ground Water
 Sample ID: **058-1119-MW-1s** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 11:42	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 01:45	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 11:42	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 11:42	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 11:42	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 11:42	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 11:42	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 11:42	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 11:42	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 11:42	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 11:42	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	102		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 01:45	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84		%	62 - 133	SW846 8260B		12/2/14 11:42	DD	A
4-Bromofluorobenzene (S)	90.5		%	79 - 114	SW846 8260B		12/2/14 11:42	DD	A
Dibromofluoromethane (S)	82.9		%	78 - 116	SW846 8260B		12/2/14 11:42	DD	A
Toluene-d8 (S)	94.7		%	76 - 127	SW846 8260B		12/2/14 11:42	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 10:02	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

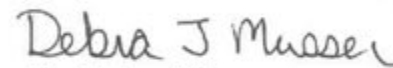
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838002 Date Collected: 11/21/2014 14:40 Matrix: Ground Water
 Sample ID: 058-1119-MW-4s Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	59.0		ug/L	5.0	SW846 8260B		12/3/14 02:50	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 16:11	KJH	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B		12/3/14 02:50	JPA	A
Ethylbenzene	151		ug/L	5.0	SW846 8260B		12/3/14 02:50	JPA	A
Isopropylbenzene	17.5		ug/L	5.0	SW846 8260B		12/3/14 02:50	JPA	A
Methyl t-Butyl Ether	576		ug/L	5.0	SW846 8260B		12/3/14 02:50	JPA	A
Naphthalene	ND		ug/L	10.0	SW846 8260B		12/3/14 02:50	JPA	A
Toluene	16.6		ug/L	5.0	SW846 8260B		12/3/14 02:50	JPA	A
Total Xylenes	47.6		ug/L	15.0	SW846 8260B		12/3/14 02:50	JPA	A
1,2,4-Trimethylbenzene	46.9		ug/L	5.0	SW846 8260B		12/3/14 02:50	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B		12/3/14 02:50	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	88.3		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 16:11	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.1		%	62 - 133	SW846 8260B		12/3/14 02:50	JPA	A
4-Bromofluorobenzene (S)	98.9		%	79 - 114	SW846 8260B		12/3/14 02:50	JPA	A
Dibromofluoromethane (S)	91		%	78 - 116	SW846 8260B		12/3/14 02:50	JPA	A
Toluene-d8 (S)	112		%	76 - 127	SW846 8260B		12/3/14 02:50	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 10:24	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

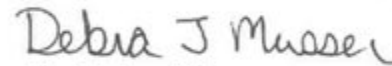
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838003 Date Collected: 11/21/2014 14:23 Matrix: Ground Water
 Sample ID: 058-1119-MW-5s Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:24	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 15:07	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 15:24	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:24	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:24	DD	A
Methyl t-Butyl Ether	1.7		ug/L	1.0	SW846 8260B		12/2/14 15:24	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 15:24	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:24	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 15:24	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:24	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:24	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	89.9		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 15:07	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.1		%	62 - 133	SW846 8260B		12/2/14 15:24	DD	A
4-Bromofluorobenzene (S)	94		%	79 - 114	SW846 8260B		12/2/14 15:24	DD	A
Dibromofluoromethane (S)	85.1		%	78 - 116	SW846 8260B		12/2/14 15:24	DD	A
Toluene-d8 (S)	92.6		%	76 - 127	SW846 8260B		12/2/14 15:24	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 10:28	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

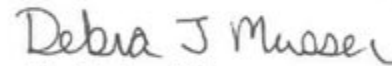
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838004 Date Collected: 11/21/2014 14:23 Matrix: Ground Water
 Sample ID: 058-119-MW5s-Dup Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:47	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 15:28	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 15:47	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:47	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:47	DD	A
Methyl t-Butyl Ether	2.0		ug/L	1.0	SW846 8260B		12/2/14 15:47	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 15:47	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:47	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 15:47	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:47	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 15:47	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	100		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 15:28	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84		%	62 - 133	SW846 8260B		12/2/14 15:47	DD	A
4-Bromofluorobenzene (S)	89		%	79 - 114	SW846 8260B		12/2/14 15:47	DD	A
Dibromofluoromethane (S)	82.4		%	78 - 116	SW846 8260B		12/2/14 15:47	DD	A
Toluene-d8 (S)	95		%	76 - 127	SW846 8260B		12/2/14 15:47	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 10:31	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838005** Date Collected: 11/21/2014 10:00 Matrix: Ground Water
 Sample ID: **058-119-MW7s** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:55	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 04:56	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 22:55	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:55	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:55	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 22:55	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 22:55	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:55	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 22:55	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:55	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:55	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	109		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 04:56	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	83.1		%	62 - 133	SW846 8260B		12/2/14 22:55	DD	A
4-Bromofluorobenzene (S)	113		%	79 - 114	SW846 8260B		12/2/14 22:55	DD	A
Dibromofluoromethane (S)	83.2		%	78 - 116	SW846 8260B		12/2/14 22:55	DD	A
Toluene-d8 (S)	99.1		%	76 - 127	SW846 8260B		12/2/14 22:55	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 10:42	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

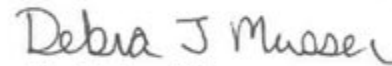
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838006 Date Collected: 11/21/2014 08:32 Matrix: Ground Water
 Sample ID: 058-119-MW8s Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 06:24	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 04:14	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 06:24	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 06:24	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 06:24	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 06:24	CJG	A
Naphthalene	ND	234	ug/L	2.0	SW846 8260B		12/2/14 06:24	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 06:24	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 06:24	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 06:24	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 06:24	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	94.8		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 04:14	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	88.3		%	62 - 133	SW846 8260B		12/2/14 06:24	CJG	A
4-Bromofluorobenzene (S)	115	1	%	79 - 114	SW846 8260B		12/2/14 06:24	CJG	A
Dibromofluoromethane (S)	95.9		%	78 - 116	SW846 8260B		12/2/14 06:24	CJG	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B		12/2/14 06:24	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 10:46	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

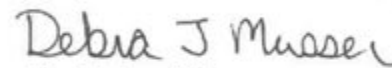
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838007** Date Collected: 11/21/2014 11:06 Matrix: Ground Water
 Sample ID: **058-119-MW9s** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:32	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 06:00	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 16:32	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:32	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:32	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 16:32	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 16:32	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:32	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 16:32	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:32	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:32	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	112		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 06:00	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85.4		%	62 - 133	SW846 8260B		12/2/14 16:32	DD	A
4-Bromofluorobenzene (S)	90.9		%	79 - 114	SW846 8260B		12/2/14 16:32	DD	A
Dibromofluoromethane (S)	83.8		%	78 - 116	SW846 8260B		12/2/14 16:32	DD	A
Toluene-d8 (S)	94.2		%	76 - 127	SW846 8260B		12/2/14 16:32	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 10:50	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838008** Date Collected: 11/21/2014 15:03 Matrix: Ground Water
 Sample ID: **058-119-MW10s** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	409		ug/L	5.0	SW846 8260B		12/3/14 03:24	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 16:54	KJH	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B		12/3/14 03:24	JPA	A
Ethylbenzene	219		ug/L	5.0	SW846 8260B		12/3/14 03:24	JPA	A
Isopropylbenzene	23.5		ug/L	5.0	SW846 8260B		12/3/14 03:24	JPA	A
Methyl t-Butyl Ether	60.2		ug/L	5.0	SW846 8260B		12/3/14 03:24	JPA	A
Naphthalene	72.1		ug/L	10.0	SW846 8260B		12/3/14 03:24	JPA	A
Toluene	2080		ug/L	50.0	SW846 8260B		12/3/14 23:37	JPA	A
Total Xylenes	1780		ug/L	15.0	SW846 8260B		12/3/14 03:24	JPA	A
1,2,4-Trimethylbenzene	389		ug/L	5.0	SW846 8260B		12/3/14 03:24	JPA	A
1,3,5-Trimethylbenzene	81.0		ug/L	5.0	SW846 8260B		12/3/14 03:24	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	107		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 16:54	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.6		%	62 - 133	SW846 8260B		12/3/14 03:24	JPA	A
1,2-Dichloroethane-d4 (S)	81.3		%	62 - 133	SW846 8260B		12/3/14 23:37	JPA	A
4-Bromofluorobenzene (S)	100		%	79 - 114	SW846 8260B		12/3/14 23:37	JPA	A
4-Bromofluorobenzene (S)	97.6		%	79 - 114	SW846 8260B		12/3/14 03:24	JPA	A
Dibromofluoromethane (S)	90.2		%	78 - 116	SW846 8260B		12/3/14 23:37	JPA	A
Dibromofluoromethane (S)	86.2		%	78 - 116	SW846 8260B		12/3/14 03:24	JPA	A
Toluene-d8 (S)	108		%	76 - 127	SW846 8260B		12/3/14 03:24	JPA	A
Toluene-d8 (S)	110		%	76 - 127	SW846 8260B		12/3/14 23:37	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 10:53	MO	E1



 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

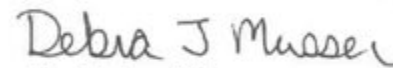
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838009 Date Collected: 11/21/2014 14:09 Matrix: Ground Water
 Sample ID: 058-119-MW11s Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	335		ug/L	5.0	SW846 8260B		12/2/14 18:48	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	11/26/14 10:17	KJH	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B		12/2/14 18:48	DD	A
Ethylbenzene	544		ug/L	5.0	SW846 8260B		12/2/14 18:48	DD	A
Isopropylbenzene	41.9		ug/L	5.0	SW846 8260B		12/2/14 18:48	DD	A
Methyl t-Butyl Ether	143		ug/L	5.0	SW846 8260B		12/2/14 18:48	DD	A
Naphthalene	85.1		ug/L	10.0	SW846 8260B		12/2/14 18:48	DD	A
Toluene	108		ug/L	5.0	SW846 8260B		12/2/14 18:48	DD	A
Total Xylenes	1370		ug/L	15.0	SW846 8260B		12/2/14 18:48	DD	A
1,2,4-Trimethylbenzene	515		ug/L	5.0	SW846 8260B		12/2/14 18:48	DD	A
1,3,5-Trimethylbenzene	133		ug/L	5.0	SW846 8260B		12/2/14 18:48	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	115		%	70 - 130	EPA 504.1	11/25/14 JSH	11/26/14 10:17	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.2		%	62 - 133	SW846 8260B		12/2/14 18:48	DD	A
4-Bromofluorobenzene (S)	88.2		%	79 - 114	SW846 8260B		12/2/14 18:48	DD	A
Dibromofluoromethane (S)	86.5		%	78 - 116	SW846 8260B		12/2/14 18:48	DD	A
Toluene-d8 (S)	90.7		%	76 - 127	SW846 8260B		12/2/14 18:48	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 10:57	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

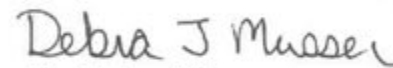
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838010** Date Collected: 11/21/2014 14:53 Matrix: Ground Water
 Sample ID: **058-119-MW12s** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	134		ug/L	1.0	SW846 8260B		12/3/14 23:55	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 16:32	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/3/14 23:55	JPA	A
Ethylbenzene	5.2		ug/L	1.0	SW846 8260B		12/3/14 23:55	JPA	A
Isopropylbenzene	2.2		ug/L	1.0	SW846 8260B		12/3/14 23:55	JPA	A
Methyl t-Butyl Ether	60.7		ug/L	1.0	SW846 8260B		12/3/14 23:55	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/3/14 23:55	JPA	A
Toluene	2.0		ug/L	1.0	SW846 8260B		12/3/14 23:55	JPA	A
Total Xylenes	3.2		ug/L	3.0	SW846 8260B		12/3/14 23:55	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 23:55	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 23:55	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	83.6		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 16:32	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.6		%	62 - 133	SW846 8260B		12/3/14 23:55	JPA	A
4-Bromofluorobenzene (S)	102		%	79 - 114	SW846 8260B		12/3/14 23:55	JPA	A
Dibromofluoromethane (S)	87.4		%	78 - 116	SW846 8260B		12/3/14 23:55	JPA	A
Toluene-d8 (S)	111		%	76 - 127	SW846 8260B		12/3/14 23:55	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:12	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

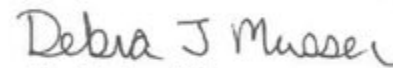
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838011** Date Collected: 11/21/2014 13:20 Matrix: Ground Water
 Sample ID: **058-119-MW13s** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:55	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 07:48	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 16:55	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:55	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:55	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 16:55	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 16:55	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:55	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 16:55	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:55	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:55	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	96.3		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 07:48	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.4		%	62 - 133	SW846 8260B		12/2/14 16:55	DD	A
4-Bromofluorobenzene (S)	92.4		%	79 - 114	SW846 8260B		12/2/14 16:55	DD	A
Dibromofluoromethane (S)	85.2		%	78 - 116	SW846 8260B		12/2/14 16:55	DD	A
Toluene-d8 (S)	95.8		%	76 - 127	SW846 8260B		12/2/14 16:55	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:15	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

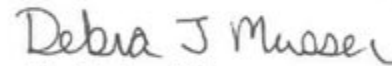
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838012** Date Collected: 11/21/2014 13:09 Matrix: Ground Water
 Sample ID: **058-119-MW14s** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:42	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 07:26	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/3/14 01:42	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:42	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:42	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/3/14 01:42	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/3/14 01:42	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:42	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/3/14 01:42	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:42	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:42	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	113		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 07:26	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.8		%	62 - 133	SW846 8260B		12/3/14 01:42	JPA	A
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B		12/3/14 01:42	JPA	A
Dibromofluoromethane (S)	89.1		%	78 - 116	SW846 8260B		12/3/14 01:42	JPA	A
Toluene-d8 (S)	109		%	76 - 127	SW846 8260B		12/3/14 01:42	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:19	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

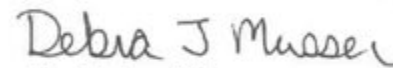
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838013** Date Collected: 11/21/2014 11:20 Matrix: Ground Water
 Sample ID: **058-119-MW15s** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:09	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 06:22	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 16:09	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:09	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:09	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 16:09	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 16:09	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:09	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 16:09	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:09	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 16:09	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	70.5		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 06:22	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81.9		%	62 - 133	SW846 8260B		12/2/14 16:09	DD	A
4-Bromofluorobenzene (S)	92.9		%	79 - 114	SW846 8260B		12/2/14 16:09	DD	A
Dibromofluoromethane (S)	87.6		%	78 - 116	SW846 8260B		12/2/14 16:09	DD	A
Toluene-d8 (S)	94.4		%	76 - 127	SW846 8260B		12/2/14 16:09	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:23	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838014** Date Collected: 11/21/2014 13:43 Matrix: Ground Water
 Sample ID: **058-119-MW16s** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:17	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 08:09	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 17:17	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:17	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:17	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 17:17	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 17:17	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:17	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 17:17	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:17	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:17	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	113		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 08:09	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85.3		%	62 - 133	SW846 8260B		12/2/14 17:17	DD	A
4-Bromofluorobenzene (S)	90.7		%	79 - 114	SW846 8260B		12/2/14 17:17	DD	A
Dibromofluoromethane (S)	83		%	78 - 116	SW846 8260B		12/2/14 17:17	DD	A
Toluene-d8 (S)	97.2		%	76 - 127	SW846 8260B		12/2/14 17:17	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:26	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

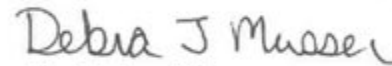
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838015 Date Collected: 11/21/2014 15:23 Matrix: Ground Water
 Sample ID: 058-119-MW17s Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:33	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 19:39	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/3/14 02:33	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:33	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:33	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/3/14 02:33	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/3/14 02:33	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:33	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/3/14 02:33	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:33	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:33	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	86.5		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 19:39	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.9		%	62 - 133	SW846 8260B		12/3/14 02:33	JPA	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B		12/3/14 02:33	JPA	A
Dibromofluoromethane (S)	88.4		%	78 - 116	SW846 8260B		12/3/14 02:33	JPA	A
Toluene-d8 (S)	110		%	76 - 127	SW846 8260B		12/3/14 02:33	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:30	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

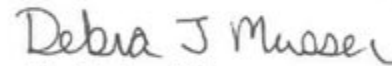
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838016** Date Collected: 11/21/2014 15:10 Matrix: Ground Water
 Sample ID: **058-119-OW4** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:16	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 18:56	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/3/14 02:16	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:16	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:16	JPA	A
Methyl t-Butyl Ether	2.1		ug/L	1.0	SW846 8260B		12/3/14 02:16	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/3/14 02:16	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:16	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/3/14 02:16	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:16	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 02:16	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	98.8		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 18:56	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81.9		%	62 - 133	SW846 8260B		12/3/14 02:16	JPA	A
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B		12/3/14 02:16	JPA	A
Dibromofluoromethane (S)	90.1		%	78 - 116	SW846 8260B		12/3/14 02:16	JPA	A
Toluene-d8 (S)	111		%	76 - 127	SW846 8260B		12/3/14 02:16	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:34	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

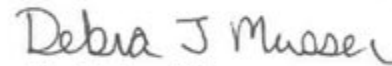
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838017** Date Collected: 11/21/2014 15:04 Matrix: Ground Water
 Sample ID: **058-119-FB1** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:09	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 17:15	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 21:09	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:09	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:09	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 21:09	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 21:09	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:09	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 21:09	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:09	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:09	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	96.5		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 17:15	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.9		%	62 - 133	SW846 8260B		12/2/14 21:09	JPA	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B		12/2/14 21:09	JPA	A
Dibromofluoromethane (S)	88.9		%	78 - 116	SW846 8260B		12/2/14 21:09	JPA	A
Toluene-d8 (S)	110		%	76 - 127	SW846 8260B		12/2/14 21:09	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:37	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

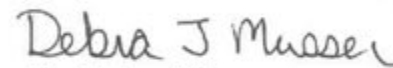
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838018** Date Collected: 11/21/2014 15:36 Matrix: Ground Water
 Sample ID: **058-119-FB2** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:26	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 20:00	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 21:26	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:26	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:26	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 21:26	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 21:26	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:26	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 21:26	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:26	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:26	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	102		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 20:00	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.1		%	62 - 133	SW846 8260B		12/2/14 21:26	JPA	A
4-Bromofluorobenzene (S)	107		%	79 - 114	SW846 8260B		12/2/14 21:26	JPA	A
Dibromofluoromethane (S)	91.1		%	78 - 116	SW846 8260B		12/2/14 21:26	JPA	A
Toluene-d8 (S)	112		%	76 - 127	SW846 8260B		12/2/14 21:26	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:59	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

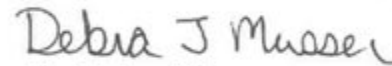
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838019** Date Collected: 11/21/2014 15:15 Matrix: Ground Water
 Sample ID: **058-119-FB3** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:43	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 19:17	KJH	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 21:43	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:43	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:43	JPA	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 21:43	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 21:43	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:43	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 21:43	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:43	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 21:43	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	104		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 19:17	KJH	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81.2		%	62 - 133	SW846 8260B		12/2/14 21:43	JPA	A
4-Bromofluorobenzene (S)	98.9		%	79 - 114	SW846 8260B		12/2/14 21:43	JPA	A
Dibromofluoromethane (S)	88.3		%	78 - 116	SW846 8260B		12/2/14 21:43	JPA	A
Toluene-d8 (S)	109		%	76 - 127	SW846 8260B		12/2/14 21:43	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:41	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

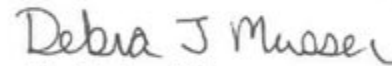
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838020** Date Collected: 11/21/2014 07:29 Matrix: Ground Water
 Sample ID: **058-1119-MW1d** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:04	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 02:06	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 12:04	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:04	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:04	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 12:04	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 12:04	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:04	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 12:04	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:04	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:04	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	91.9		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 02:06	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.6		%	62 - 133	SW846 8260B		12/2/14 12:04	DD	A
4-Bromofluorobenzene (S)	92.8		%	79 - 114	SW846 8260B		12/2/14 12:04	DD	A
Dibromofluoromethane (S)	87.4		%	78 - 116	SW846 8260B		12/2/14 12:04	DD	A
Toluene-d8 (S)	96.5		%	76 - 127	SW846 8260B		12/2/14 12:04	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 11:45	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838021** Date Collected: 11/21/2014 08:20 Matrix: Ground Water
 Sample ID: **058-1119-MW2d** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	5.5		ug/L	1.0	SW846 8260B		12/2/14 13:33	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 03:52	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 13:33	DD	A
Ethylbenzene	20.6		ug/L	1.0	SW846 8260B		12/2/14 13:33	DD	A
Isopropylbenzene	5.1		ug/L	1.0	SW846 8260B		12/2/14 13:33	DD	A
Methyl t-Butyl Ether	4.6		ug/L	1.0	SW846 8260B		12/2/14 13:33	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 13:33	DD	A
Toluene	2.1		ug/L	1.0	SW846 8260B		12/2/14 13:33	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 13:33	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:33	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:33	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	95.4		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 03:52	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.1		%	62 - 133	SW846 8260B		12/2/14 13:33	DD	A
4-Bromofluorobenzene (S)	88.6		%	79 - 114	SW846 8260B		12/2/14 13:33	DD	A
Dibromofluoromethane (S)	81.7		%	78 - 116	SW846 8260B		12/2/14 13:33	DD	A
Toluene-d8 (S)	94.7		%	76 - 127	SW846 8260B		12/2/14 13:33	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 12:10	MO	C1

Debra J Musser
 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

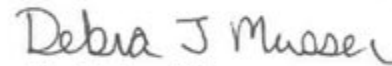
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838022 Date Collected: 11/21/2014 07:40 Matrix: Ground Water
 Sample ID: 058-1119-MW6d Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:26	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 02:28	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 12:26	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:26	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:26	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 12:26	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 12:26	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:26	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 12:26	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:26	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:26	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	103		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 02:28	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.8		%	62 - 133	SW846 8260B		12/2/14 12:26	DD	A
4-Bromofluorobenzene (S)	90		%	79 - 114	SW846 8260B		12/2/14 12:26	DD	A
Dibromofluoromethane (S)	90.5		%	78 - 116	SW846 8260B		12/2/14 12:26	DD	A
Toluene-d8 (S)	96.1		%	76 - 127	SW846 8260B		12/2/14 12:26	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 12:14	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838023 Date Collected: 11/21/2014 08:03 Matrix: Ground Water
 Sample ID: 058-1119-MW7d Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	4.6		ug/L	1.0	SW846 8260B		12/2/14 12:48	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 02:48	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 12:48	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:48	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:48	DD	A
Methyl t-Butyl Ether	5.0		ug/L	1.0	SW846 8260B		12/2/14 12:48	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 12:48	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:48	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 12:48	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:48	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 12:48	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	90.3		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 02:48	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.6		%	62 - 133	SW846 8260B		12/2/14 12:48	DD	A
4-Bromofluorobenzene (S)	88.6		%	79 - 114	SW846 8260B		12/2/14 12:48	DD	A
Dibromofluoromethane (S)	85		%	78 - 116	SW846 8260B		12/2/14 12:48	DD	A
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B		12/2/14 12:48	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 12:18	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838024** Date Collected: 11/21/2014 08:03 Matrix: Ground Water
 Sample ID: **058-1119-MW7d Dup** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	4.7		ug/L	1.0	SW846 8260B		12/2/14 13:11	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 03:10	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 13:11	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:11	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:11	DD	A
Methyl t-Butyl Ether	4.6		ug/L	1.0	SW846 8260B		12/2/14 13:11	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 13:11	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:11	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 13:11	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:11	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:11	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	106		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 03:10	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.8		%	62 - 133	SW846 8260B		12/2/14 13:11	DD	A
4-Bromofluorobenzene (S)	93.8		%	79 - 114	SW846 8260B		12/2/14 13:11	DD	A
Dibromofluoromethane (S)	86.9		%	78 - 116	SW846 8260B		12/2/14 13:11	DD	A
Toluene-d8 (S)	96.2		%	76 - 127	SW846 8260B		12/2/14 13:11	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 12:21	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

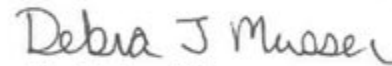
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838025** Date Collected: 11/21/2014 09:12 Matrix: Ground Water
 Sample ID: **058-1119-MW8d** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:55	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 04:35	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 13:55	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:55	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:55	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 13:55	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 13:55	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:55	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 13:55	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:55	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 13:55	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	118		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 04:35	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	81.9		%	62 - 133	SW846 8260B		12/2/14 13:55	DD	A
4-Bromofluorobenzene (S)	91.5		%	79 - 114	SW846 8260B		12/2/14 13:55	DD	A
Dibromofluoromethane (S)	89.2		%	78 - 116	SW846 8260B		12/2/14 13:55	DD	A
Toluene-d8 (S)	96		%	76 - 127	SW846 8260B		12/2/14 13:55	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 12:25	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838026** Date Collected: 11/21/2014 10:19 Matrix: Ground Water
 Sample ID: **058-1119-MW9d** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:11	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 05:17	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 22:11	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:11	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:11	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 22:11	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 22:11	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:11	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 22:11	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:11	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:11	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	110		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 05:17	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.7		%	62 - 133	SW846 8260B		12/2/14 22:11	DD	A
4-Bromofluorobenzene (S)	119	2	%	79 - 114	SW846 8260B		12/2/14 22:11	DD	A
Dibromofluoromethane (S)	84.2		%	78 - 116	SW846 8260B		12/2/14 22:11	DD	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B		12/2/14 22:11	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 12:29	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838027** Date Collected: 11/21/2014 10:19 Matrix: Ground Water
 Sample ID: **058-1119-MW9d Dup** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:33	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 05:39	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 22:33	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:33	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:33	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 22:33	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 22:33	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:33	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 22:33	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:33	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 22:33	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	108		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 05:39	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	79.8		%	62 - 133	SW846 8260B		12/2/14 22:33	DD	A
4-Bromofluorobenzene (S)	120	3	%	79 - 114	SW846 8260B		12/2/14 22:33	DD	A
Dibromofluoromethane (S)	87.3		%	78 - 116	SW846 8260B		12/2/14 22:33	DD	A
Toluene-d8 (S)	99.6		%	76 - 127	SW846 8260B		12/2/14 22:33	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 12:32	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

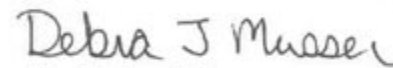
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: **2041838028** Date Collected: 11/21/2014 11:38 Matrix: Ground Water
 Sample ID: **058-1119-MW10d** Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:40	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 06:43	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 17:40	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:40	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:40	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 17:40	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 17:40	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:40	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 17:40	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:40	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 17:40	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	113		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 06:43	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.9		%	62 - 133	SW846 8260B		12/2/14 17:40	DD	A
4-Bromofluorobenzene (S)	87.5		%	79 - 114	SW846 8260B		12/2/14 17:40	DD	A
Dibromofluoromethane (S)	85.9		%	78 - 116	SW846 8260B		12/2/14 17:40	DD	A
Toluene-d8 (S)	95.8		%	76 - 127	SW846 8260B		12/2/14 17:40	DD	A
METALS									
Lead, Dissolved	ND	1	mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 12:47	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

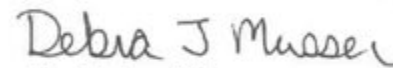
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838029 Date Collected: 11/21/2014 12:41 Matrix: Ground Water
 Sample ID: 058-1119-MW11d Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:02	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 07:05	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 18:02	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:02	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:02	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 18:02	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 18:02	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:02	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 18:02	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:02	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:02	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	106		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 07:05	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.5		%	62 - 133	SW846 8260B		12/2/14 18:02	DD	A
4-Bromofluorobenzene (S)	91.1		%	79 - 114	SW846 8260B		12/2/14 18:02	DD	A
Dibromofluoromethane (S)	87.8		%	78 - 116	SW846 8260B		12/2/14 18:02	DD	A
Toluene-d8 (S)	94.4		%	76 - 127	SW846 8260B		12/2/14 18:02	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 12:58	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838030 Date Collected: 11/21/2014 15:05 Matrix: Ground Water
 Sample ID: 058-1119-MW12d Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:59	JPA	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 JSH	12/1/14 18:17	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/3/14 01:59	JPA	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:59	JPA	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:59	JPA	A
Methyl t-Butyl Ether	2.0		ug/L	1.0	SW846 8260B		12/3/14 01:59	JPA	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/3/14 01:59	JPA	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:59	JPA	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/3/14 01:59	JPA	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:59	JPA	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/3/14 01:59	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	96.8		%	70 - 130	EPA 504.1	11/25/14 JSH	12/1/14 18:17	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	80.2		%	62 - 133	SW846 8260B		12/3/14 01:59	JPA	A
4-Bromofluorobenzene (S)	99.7		%	79 - 114	SW846 8260B		12/3/14 01:59	JPA	A
Dibromofluoromethane (S)	88.3		%	78 - 116	SW846 8260B		12/3/14 01:59	JPA	A
Toluene-d8 (S)	109		%	76 - 127	SW846 8260B		12/3/14 01:59	JPA	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 13:01	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2041838 Lewis Brothers Garage/27058

 Lab ID: 2041838031 Date Collected: 11/21/2014 13:58 Matrix: Ground Water
 Sample ID: 058-1119-MW13d Date Received: 11/25/2014 07:20

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:25	DD	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	11/25/14 EGO	11/26/14 08:31	KJH	B
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		12/2/14 18:25	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:25	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:25	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		12/2/14 18:25	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		12/2/14 18:25	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:25	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		12/2/14 18:25	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:25	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		12/2/14 18:25	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	120		%	70 - 130	EPA 504.1	11/25/14 EGO	11/26/14 08:31	KJH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	84.8		%	62 - 133	SW846 8260B		12/2/14 18:25	DD	A
4-Bromofluorobenzene (S)	89.4		%	79 - 114	SW846 8260B		12/2/14 18:25	DD	A
Dibromofluoromethane (S)	87.1		%	78 - 116	SW846 8260B		12/2/14 18:25	DD	A
Toluene-d8 (S)	99.1		%	76 - 127	SW846 8260B		12/2/14 18:25	DD	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	11/25/14 ZMC	11/26/14 13:05	MO	C1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2041838006	1	058-119-MW8s	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 115 and the control limits were 79 to 114. This result was reported at a dilution of 1.				
2041838006	2	058-119-MW8s	SW846 8260B	Naphthalene
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 34.3 and the control limits were 56 to 134.				
2041838006	3	058-119-MW8s	SW846 8260B	Naphthalene
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 16.3 and the control limits were 56 to 134.				
2041838006	4	058-119-MW8s	SW846 8260B	Naphthalene
The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 19.1 and the control limits were 56 to 134.				
2041838026	2	058-1119-MW9d	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 119 and the control limits were 79 to 114. This result was reported at a dilution of 1.				
2041838027	3	058-1119-MW9d Dup	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 120 and the control limits were 79 to 114. This result was reported at a dilution of 1.				
2041838028	1	058-1119-MW10d	SW846 6020A	Lead, Dissolved
One of the two matrix spike analyses performed on this sample failed to meet acceptable recovery limits. The other matrix spike was within acceptable recovery limits. Matrix interferences are the possible cause for the failure.				

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

Client Name: Pennsylvania Tectonics, Inc.

Address: 723 Main Street

Archbald, PA 18403

Contact: Martin Gillingham

Phone#: (570) 487-1959

Project Name#: Lewis Brothers Garage / 27058

Bill To:

Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.

Date Required: _____ Approved By: _____

Email? Y N patectonics@hotmail.com

Fax? Y N No.:

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.**

COC #: 2041838
ALS Quote #: _____

2 of 4

Container Type	CG	CG	PL	Receipt Information (completed by Receiving Lab)
Container Size	40 ml	40 ml	250 ml	Cooler Temp: <u>2</u> Therm ID: <u>291</u>
Preservative	HCl	HCl	HNO3	No. of Coolers: _____ Y _____ N _____ Initial <u>MLG</u>
ANALYSES/METHOD REQUESTED				Custody Seals Present? _____ (If present) Seals Intact? _____ Received on Ice? _____ COC Labels Complete/Accurate? _____ Cont. in Good Cond.? _____ Correct Containers? _____ Correct Sample Volumes? _____ Correct Preservation? _____ Headspace/Volatiles? _____
Enter Number of Containers Per Sample or Field Results Below.				Courier/Tracking #: _____ Sample/COC Comments _____
Container Type	CG	CG	PL	ALS Field Services: _____ Pickup _____ Labor _____ _____ Composite Sampling _____ Rental Equipment _____ _____ Other: _____
Matrix	G	GW	2	Special Processing: USACE _____ Navy _____
Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	Received By / Company Name	Sample Disposal: Lab _____ Special _____
1 058-1119-MW13s	11/21/14	1320	11/25/14	Reportable to PADEP? Yes _____ No _____
2 058-1119-MW14s	11/21/14	1309	11/26	PWSID # _____ EDDS: Format Type _____
3 058-1119-MW15s	11/21/14	1120	11/24/14	PA Tectonics
4 058-1119-MW16s	11/21/14	1343	11/25	11/25 0720
5 058-1119-MW17s	11/21/14	1523		
6 058-1119-OW4	11/21/14	1510		
7 058-1119-FB1	11/21/14	1504		
8 058-1119-FB2	11/21/14	1530		
9 058-1119-FB3	11/24/14	1515		
10				
Project Comments: **Na2S2O3	LOGGED BY (signature):	REVIEWED BY (signature):	Date	State Samples Collected In: NY _____ NJ _____ PA _____ NC _____
1 To PA Tectonics	11/24/14	1630	2	
3 Matt Dreyer / PA Tectonics			4	
5			6	
7			8	
9			10	





34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

Client Name: Pennsylvania Technics, Inc.

Address: 723 Main Street

Archbald, PA 18403

Contact: Martin Gilgallon

Phone#: (570) 487-1959

Project Name#: Lewis Brothers Garage / 27058

Bill To:

TAT Normal-Standard TAT is 10-12 business days.

Rush-Subject to ALS approval and surcharges.

Date Required: _____ Approved By: _____

Email? Y N patectonics@hotmail.com

Fax? Y N

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2041838 ³ of ⁴
ALS Quote #:

Receipt Information (completed by Receiving Lab)

Cooler Temp: 2 Therm ID: 291

No. of Coolers: Y N Initial LMG

Custody Seals Present? (if present) Seals Intact?

Received on Ice?

COC Labels Complete/Accurate?

Cont. In Good Cond.?

Correct Containers?

Correct Sample Volumes?

Correct Preservation?

Headspace/Volatiles?

Courier/Tracking #: _____ Sample/COC Comments

ANALYSE/METHOD REQUESTED			
Container Type	CG	CG	PL
Container Size	40 ml	40 ml	250 ml
Preservative	HCl	**	HNO3

Sample Description/Location <small>(as it will appear on the lab report)</small>	Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.				Matrix
			Unleaded & Leaded Gasoline - New List - EPA Method 8260B	Unleaded & Leaded Gasoline - New List EDB Method 504	Unleaded/Leaded Gas - New List	Dissolved Lead (Field Filtered)	
1 058-1119-MW1d	11/21/14	0729	2	2	1	GW	
2 058-1119-MW2d	11/21/14	0820	2	2	1	GW	
3 058-1119-MW6d	11/21/14	0740	2	2	1	GW	
4 058-1119-MW7d	11/21/14	0803	2	2	1	GW	
5 058-1119-MW7d Dup	11/21/14	0803	2	2	1	GW	
6 058-1119-MW8d	11/24/14	0912	2	2	1	GW	
7 058-1119-MW9d	11/24/14	1019	2	2	1	GW	
8 058-1119-MW9d Dup	11/24/14	1019	2	2	1	GW	
9 058-1119-MW10d	11/24/14	1138	2	2	1	GW	
10 058-1119-MW11d	11/24/14	1241	2	2	1	GW	

Project Comments: **Na2S2O3

LOGGED BY (signature): [Signature] Date: 11/25/14 Time: 11:50

REVIEWED BY (signature): [Signature] Date: 11/26 Time: 8

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 <u>[Signature] / PATECTONICS</u>	11/24/14	1630	2 <u>[Signature] / PATECTONICS</u>	11/24/14	1630
3 <u>[Signature] / PATECTONICS</u>			4 <u>[Signature] / PATECTONICS</u>	11/25	0700
5			6		
7			8		
9			10		

ALS Field Services: Pickup Labor
 Composites Sampling Rental Equipment
 Other:

Data Deliverables: Standard CLP-like USACE

Special Processing: USACE Navy

Reportable to PADEP? Yes No

Sample Disposal: Lab Special

State Samples Collected In: NY NJ PA NC

PWSID # _____ EDDS: Format Type _____





34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

Client Name: Pennsylvania Technonics, Inc.

Address: 723 Main Street

Archbald, PA 18403

Contact: Martin Gligallon

Phone#: (570) 487-1959

Project Name#: Lewis Brothers Garage / 27058

Bill To:

TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.

Date Required: _____ Approved By: _____

Email? Y N patectionics@hotmail.com

Fax? Y N No.

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 204838 4 of 4
ALS Quote #: _____

Container Type	CG	CG	PL	PL
Container Size	40 ml	40 ml	250 ml	
Preservative	HCl	**	HNO3	

Sample Description/Location <small>(as it will appear on the lab report)</small>	Sample Date	Time	Matrix	Enter Number of Containers Per Sample or Field Results Below.
1 058-1119-VW12d	11/24/14	1505	G	2
2 058-1119-VW13d	11/24/14	1358	G	2
3				
4				
5				
6				
7				
8				
9				
10				

LOGGED BY (signature):	REVIEWED BY (signature):	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	11/25/14	1150
		11/24	

Requisitioned By / Company Name	Date	Time	Received By / Company Name
1 <i>[Signature]</i> / PA Technonics	11/24/14	1630	2 <i>[Signature]</i> / PA Technonics
3 <i>[Signature]</i> / PA Technonics			4 <i>[Signature]</i> / PA Technonics
5			6
7			8
9			10

Project Comments: * * - Na ₂ S ₂ O ₃	ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment <input type="checkbox"/> Other:

Receipt Information (completed by Receiving Lab)	Special Processing	State Samples Collected In
Cooler Temp: <u>2</u> Therm ID: <u>291</u>	USACE <input type="checkbox"/>	NY <input type="checkbox"/>
No. of Coolers: _____ Y N Initial <u>WLS</u>	Navy <input type="checkbox"/>	NJ <input type="checkbox"/>
Custody Seals Present? <input type="checkbox"/>	USACE <input type="checkbox"/>	PA <input checked="" type="checkbox"/>
(If present) Seals Intact? <input type="checkbox"/>	USACE <input type="checkbox"/>	NC <input type="checkbox"/>
Received on Ica? <input type="checkbox"/>	USACE <input type="checkbox"/>	
COCLabels Complete/Accurate? <input type="checkbox"/>	USACE <input type="checkbox"/>	
Cont. in Good Cond.? <input type="checkbox"/>	USACE <input type="checkbox"/>	
Correct Containers? <input type="checkbox"/>	USACE <input type="checkbox"/>	
Correct Sample Volumes? <input type="checkbox"/>	USACE <input type="checkbox"/>	
Correct Preservation? <input type="checkbox"/>	USACE <input type="checkbox"/>	
Headspace/Volatiles? <input type="checkbox"/>	USACE <input type="checkbox"/>	
Courier/Tracking #: _____	USACE <input type="checkbox"/>	
Sample/COC Comments	USACE <input type="checkbox"/>	



Groundwater Sampling Analytical Data Sheets

October 6, 7 & 8, 2015

October 19, 2015

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name:	27058 Lewis Brothers Garage	Workorder:	2100941
Purchase Order:		Workorder ID:	27058/Lewis Bros Garage

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, October 9, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

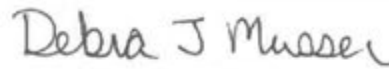
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2100941 27058/Lewis Bros Garage

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2100941001	058-1006-MW2S	Ground Water	10/7/2015 14:00	10/9/2015 09:55	Collected by Client
2100941002	058-1006-MW3S	Ground Water	10/7/2015 13:45	10/9/2015 09:55	Collected by Client
2100941003	058-1006-MW4S	Ground Water	10/7/2015 14:15	10/9/2015 09:55	Collected by Client
2100941004	058-1006-MW5S	Ground Water	10/7/2015 13:10	10/9/2015 09:55	Collected by Client
2100941005	058-1006-MW5S Dup	Ground Water	10/7/2015 13:10	10/9/2015 09:55	Collected by Client
2100941006	058-1006-MW7S	Ground Water	10/8/2015 09:33	10/9/2015 09:55	Collected by Client
2100941007	058-1006-MW8S	Ground Water	10/6/2015 09:03	10/9/2015 09:55	Collected by Client
2100941008	058-1006-MW9S	Ground Water	10/6/2015 11:04	10/9/2015 09:55	Collected by Client
2100941009	058-1006-MW10S	Ground Water	10/8/2015 15:04	10/9/2015 09:55	Collected by Client
2100941010	058-1006-MW11S	Ground Water	10/8/2015 13:07	10/9/2015 09:55	Collected by Client
2100941011	058-1006-MW12S	Ground Water	10/7/2015 11:28	10/9/2015 09:55	Collected by Client
2100941012	058-1006-MW13S	Ground Water	10/6/2015 14:12	10/9/2015 09:55	Collected by Client
2100941013	058-1006-MW14S	Ground Water	10/6/2015 15:16	10/9/2015 09:55	Collected by Client
2100941014	058-1006-MW15S	Ground Water	10/7/2015 10:39	10/9/2015 09:55	Collected by Client
2100941015	058-1006-MW16S	Ground Water	10/7/2015 11:17	10/9/2015 09:55	Collected by Client
2100941016	058-1006-MW17S	Ground Water	10/6/2015 16:20	10/9/2015 09:55	Collected by Client
2100941017	058-1006-OW4	Ground Water	10/7/2015 12:39	10/9/2015 09:55	Collected by Client
2100941018	058-1006-MW1d	Ground Water	10/8/2015 07:34	10/9/2015 09:55	Collected by Client
2100941019	058-1006-MW2d	Ground Water	10/8/2015 08:30	10/9/2015 09:55	Collected by Client
2100941020	058-1006-MW6d	Ground Water	10/7/2015 14:40	10/9/2015 09:55	Collected by Client
2100941021	058-1006-MW7d	Ground Water	10/8/2015 08:00	10/9/2015 09:55	Collected by Client
2100941022	058-1006-MW7d Dup	Ground Water	10/8/2015 08:00	10/9/2015 09:55	Collected by Client
2100941023	058-1006-MW8d	Ground Water	10/6/2015 10:09	10/9/2015 09:55	Collected by Client
2100941024	058-1006-MW9d	Ground Water	10/6/2015 11:55	10/9/2015 09:55	Collected by Client
2100941025	058-1006-MW9d Dup	Ground Water	10/6/2015 11:55	10/9/2015 09:55	Collected by Client
2100941026	058-1006-MW10d	Ground Water	10/8/2015 14:11	10/9/2015 09:55	Collected by Client
2100941027	058-1006-MW11d	Ground Water	10/8/2015 11:31	10/9/2015 09:55	Collected by Client
2100941028	058-1006-MW12d	Ground Water	10/8/2015 10:19	10/9/2015 09:55	Collected by Client
2100941029	058-1006-MW13d	Ground Water	10/6/2015 13:56	10/9/2015 09:55	Collected by Client
2100941030	058-1006-FB1	Water	10/6/2015 16:35	10/9/2015 09:55	Collected by Client
2100941031	058-1006-FB2	Water	10/7/2015 15:02	10/9/2015 09:55	Collected by Client
2100941032	058-1006-FB3	Water	10/8/2015 15:30	10/9/2015 09:55	Collected by Client

ALS Environmental Laboratory Locations Across North America
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 2100941 27058/Lewis Bros Garage

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

PROJECT SUMMARY

Workorder: 2100941 27058/Lewis Bros Garage

Sample Comments**Lab ID:** 2100941001 **Sample ID:** 058-1006-MW2S **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2100941002 **Sample ID:** 058-1006-MW3S **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2100941003 **Sample ID:** 058-1006-MW4S **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2100941009 **Sample ID:** 058-1006-MW10S **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2100941010 **Sample ID:** 058-1006-MW11S **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2100941023 **Sample ID:** 058-1006-MW8d **Sample Type:** SAMPLE

The method 504.1 requires samples with residual chlorine to be dechlorinated at the time of collection using a dechlorinating agent. This sample contained residual chlorine when received by the laboratory.

ALS Environmental Laboratory Locations Across North AmericaCanada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941001** Date Collected: 10/7/2015 14:00 Matrix: Ground Water
 Sample ID: **058-1006-MW2S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	1020		ug/L	50.0	SW846 8260B		10/13/15 01:17	CJG	A
1,2-Dibromoethane	2.6		ug/L	0.20	EPA 504.1	10/15/15 EGO	10/16/15 12:02	EGO	C
1,2-Dichloroethane	ND		ug/L	50.0	SW846 8260B		10/13/15 01:17	CJG	A
Ethylbenzene	1280		ug/L	50.0	SW846 8260B		10/13/15 01:17	CJG	A
Isopropylbenzene	94.9		ug/L	50.0	SW846 8260B		10/13/15 01:17	CJG	A
Methyl t-Butyl Ether	224		ug/L	50.0	SW846 8260B		10/13/15 01:17	CJG	A
Naphthalene	359		ug/L	100	SW846 8260B		10/13/15 01:17	CJG	A
Toluene	1410		ug/L	50.0	SW846 8260B		10/13/15 01:17	CJG	A
Total Xylenes	4190		ug/L	150	SW846 8260B		10/13/15 01:17	CJG	A
1,2,4-Trimethylbenzene	2400		ug/L	50.0	SW846 8260B		10/13/15 01:17	CJG	A
1,3,5-Trimethylbenzene	484		ug/L	50.0	SW846 8260B		10/13/15 01:17	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	76.1		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 02:15	EGO	C
1-Chloro-2-Fluorobenzene (S)	83.3		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 12:02	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.3		%	62 - 133	SW846 8260B		10/13/15 01:17	CJG	A
4-Bromofluorobenzene (S)	91.4		%	79 - 114	SW846 8260B		10/13/15 01:17	CJG	A
Dibromofluoromethane (S)	94.9		%	78 - 116	SW846 8260B		10/13/15 01:17	CJG	A
Toluene-d8 (S)	98		%	76 - 127	SW846 8260B		10/13/15 01:17	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 03:43	ZMC	E1

Debra J Musser
 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941002** Date Collected: 10/7/2015 13:45 Matrix: Ground Water
 Sample ID: **058-1006-MW3S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	4480		ug/L	100	SW846 8260B		10/13/15 01:36	CJG	A
1,2-Dibromoethane	1.0		ug/L	0.099	EPA 504.1	10/15/15 EGO	10/16/15 11:40	EGO	C
1,2-Dichloroethane	ND		ug/L	100	SW846 8260B		10/13/15 01:36	CJG	A
Ethylbenzene	2630		ug/L	100	SW846 8260B		10/13/15 01:36	CJG	A
Isopropylbenzene	168		ug/L	100	SW846 8260B		10/13/15 01:36	CJG	A
Methyl t-Butyl Ether	517		ug/L	100	SW846 8260B		10/13/15 01:36	CJG	A
Naphthalene	624		ug/L	200	SW846 8260B		10/13/15 01:36	CJG	A
Toluene	12000		ug/L	100	SW846 8260B		10/13/15 01:36	CJG	A
Total Xylenes	17100		ug/L	300	SW846 8260B		10/13/15 01:36	CJG	A
1,2,4-Trimethylbenzene	4390		ug/L	100	SW846 8260B		10/13/15 01:36	CJG	A
1,3,5-Trimethylbenzene	866		ug/L	100	SW846 8260B		10/13/15 01:36	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	94.6		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 11:40	EGO	C
1-Chloro-2-Fluorobenzene (S)	72.1		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 01:53	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.8		%	62 - 133	SW846 8260B		10/13/15 01:36	CJG	A
4-Bromofluorobenzene (S)	91.9		%	79 - 114	SW846 8260B		10/13/15 01:36	CJG	A
Dibromofluoromethane (S)	95.3		%	78 - 116	SW846 8260B		10/13/15 01:36	CJG	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B		10/13/15 01:36	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 03:55	ZMC	E1

Debra J Musser
 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941003** Date Collected: 10/7/2015 14:15 Matrix: Ground Water
 Sample ID: **058-1006-MW4S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	80.6		ug/L	5.0	SW846 8260B		10/13/15 04:52	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/16/15 02:37	EGO	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B		10/13/15 04:52	CJG	A
Ethylbenzene	302		ug/L	5.0	SW846 8260B		10/13/15 04:52	CJG	A
Isopropylbenzene	31.4		ug/L	5.0	SW846 8260B		10/13/15 04:52	CJG	A
Methyl t-Butyl Ether	432		ug/L	5.0	SW846 8260B		10/13/15 04:52	CJG	A
Naphthalene	ND		ug/L	10.0	SW846 8260B		10/13/15 04:52	CJG	A
Toluene	28.1		ug/L	5.0	SW846 8260B		10/13/15 04:52	CJG	A
Total Xylenes	108		ug/L	15.0	SW846 8260B		10/13/15 04:52	CJG	A
1,2,4-Trimethylbenzene	158		ug/L	5.0	SW846 8260B		10/13/15 04:52	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B		10/13/15 04:52	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	85.4		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 02:37	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260B		10/13/15 04:52	CJG	A
4-Bromofluorobenzene (S)	93.2		%	79 - 114	SW846 8260B		10/13/15 04:52	CJG	A
Dibromofluoromethane (S)	87.2		%	78 - 116	SW846 8260B		10/13/15 04:52	CJG	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B		10/13/15 04:52	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 03:59	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941004** Date Collected: 10/7/2015 13:10 Matrix: Ground Water
 Sample ID: **058-1006-MW5S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:25	CJG	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	10/15/15 EGO	10/15/15 23:44	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 20:25	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:25	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:25	CJG	A
Methyl t-Butyl Ether	5.1		ug/L	1.0	SW846 8260B		10/12/15 20:25	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 20:25	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:25	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 20:25	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:25	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:25	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	87.9		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 23:44	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.4		%	62 - 133	SW846 8260B		10/12/15 20:25	CJG	A
4-Bromofluorobenzene (S)	95.3		%	79 - 114	SW846 8260B		10/12/15 20:25	CJG	A
Dibromofluoromethane (S)	94		%	78 - 116	SW846 8260B		10/12/15 20:25	CJG	A
Toluene-d8 (S)	98.2		%	76 - 127	SW846 8260B		10/12/15 20:25	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 04:02	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941005** Date Collected: 10/7/2015 13:10 Matrix: Ground Water
 Sample ID: **058-1006-MW5S Dup** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:45	CJG	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	10/15/15 EGO	10/16/15 00:05	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 20:45	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:45	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:45	CJG	A
Methyl t-Butyl Ether	5.3		ug/L	1.0	SW846 8260B		10/12/15 20:45	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 20:45	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:45	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 20:45	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:45	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:45	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	84		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 00:05	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.7		%	62 - 133	SW846 8260B		10/12/15 20:45	CJG	A
4-Bromofluorobenzene (S)	91.6		%	79 - 114	SW846 8260B		10/12/15 20:45	CJG	A
Dibromofluoromethane (S)	96		%	78 - 116	SW846 8260B		10/12/15 20:45	CJG	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B		10/12/15 20:45	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 07:10	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941006** Date Collected: 10/8/2015 09:33 Matrix: Ground Water
 Sample ID: **058-1006-MW7S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 06:01	CJG	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	10/15/15 EGO	10/16/15 03:42	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 06:01	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 06:01	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 06:01	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 06:01	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 06:01	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 06:01	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 06:01	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 06:01	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 06:01	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	82		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 03:42	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B		10/13/15 06:01	CJG	A
4-Bromofluorobenzene (S)	93.9		%	79 - 114	SW846 8260B		10/13/15 06:01	CJG	A
Dibromofluoromethane (S)	87.6		%	78 - 116	SW846 8260B		10/13/15 06:01	CJG	A
Toluene-d8 (S)	97.7		%	76 - 127	SW846 8260B		10/13/15 06:01	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 04:06	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

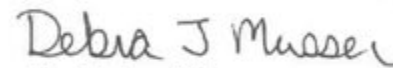
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941007** Date Collected: 10/6/2015 09:03 Matrix: Ground Water
 Sample ID: **058-1006-MW8S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:04	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 18:27	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 21:04	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:04	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:04	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 21:04	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 21:04	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:04	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 21:04	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:04	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:04	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	85.6		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 18:27	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.1		%	62 - 133	SW846 8260B		10/12/15 21:04	CJG	A
4-Bromofluorobenzene (S)	94		%	79 - 114	SW846 8260B		10/12/15 21:04	CJG	A
Dibromofluoromethane (S)	93.5		%	78 - 116	SW846 8260B		10/12/15 21:04	CJG	A
Toluene-d8 (S)	97.2		%	76 - 127	SW846 8260B		10/12/15 21:04	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 07:21	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941008** Date Collected: 10/6/2015 11:04 Matrix: Ground Water
 Sample ID: **058-1006-MW9S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:24	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 19:31	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 21:24	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:24	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:24	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 21:24	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 21:24	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:24	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 21:24	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:24	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:24	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	93.1		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 19:31	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.6		%	62 - 133	SW846 8260B		10/12/15 21:24	CJG	A
4-Bromofluorobenzene (S)	91.7		%	79 - 114	SW846 8260B		10/12/15 21:24	CJG	A
Dibromofluoromethane (S)	93.8		%	78 - 116	SW846 8260B		10/12/15 21:24	CJG	A
Toluene-d8 (S)	97.5		%	76 - 127	SW846 8260B		10/12/15 21:24	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 07:25	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941009** Date Collected: 10/8/2015 15:04 Matrix: Ground Water
 Sample ID: **058-1006-MW10S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	115		ug/L	5.0	SW846 8260B		10/13/15 23:06	CJG	B
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/16/15 04:03	EGO	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B		10/13/15 23:06	CJG	B
Ethylbenzene	83.7		ug/L	5.0	SW846 8260B		10/13/15 23:06	CJG	B
Isopropylbenzene	5.4		ug/L	5.0	SW846 8260B		10/13/15 23:06	CJG	B
Methyl t-Butyl Ether	11.2		ug/L	5.0	SW846 8260B		10/13/15 23:06	CJG	B
Naphthalene	11.4		ug/L	10.0	SW846 8260B		10/13/15 23:06	CJG	B
Toluene	581		ug/L	5.0	SW846 8260B		10/13/15 23:06	CJG	B
Total Xylenes	399		ug/L	15.0	SW846 8260B		10/13/15 23:06	CJG	B
1,2,4-Trimethylbenzene	91.5		ug/L	5.0	SW846 8260B		10/13/15 23:06	CJG	B
1,3,5-Trimethylbenzene	11.7		ug/L	5.0	SW846 8260B		10/13/15 23:06	CJG	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	93.8		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 04:03	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.4		%	62 - 133	SW846 8260B		10/13/15 23:06	CJG	B
4-Bromofluorobenzene (S)	93.5		%	79 - 114	SW846 8260B		10/13/15 23:06	CJG	B
Dibromofluoromethane (S)	98.2		%	78 - 116	SW846 8260B		10/13/15 23:06	CJG	B
Toluene-d8 (S)	97.3		%	76 - 127	SW846 8260B		10/13/15 23:06	CJG	B
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 07:29	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941010** Date Collected: 10/8/2015 13:07 Matrix: Ground Water
 Sample ID: **058-1006-MW11S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	167		ug/L	5.0	SW846 8260B		10/13/15 06:35	CJG	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	10/15/15 EGO	10/16/15 04:47	EGO	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B		10/13/15 06:35	CJG	A
Ethylbenzene	477		ug/L	5.0	SW846 8260B		10/13/15 06:35	CJG	A
Isopropylbenzene	38.0		ug/L	5.0	SW846 8260B		10/13/15 06:35	CJG	A
Methyl t-Butyl Ether	37.2		ug/L	5.0	SW846 8260B		10/13/15 06:35	CJG	A
Naphthalene	43.4		ug/L	10.0	SW846 8260B		10/13/15 06:35	CJG	A
Toluene	86.5		ug/L	5.0	SW846 8260B		10/13/15 06:35	CJG	A
Total Xylenes	1130		ug/L	15.0	SW846 8260B		10/13/15 06:35	CJG	A
1,2,4-Trimethylbenzene	549		ug/L	5.0	SW846 8260B		10/13/15 06:35	CJG	A
1,3,5-Trimethylbenzene	150		ug/L	5.0	SW846 8260B		10/13/15 06:35	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	103		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 04:47	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.6		%	62 - 133	SW846 8260B		10/13/15 06:35	CJG	A
4-Bromofluorobenzene (S)	89.8		%	79 - 114	SW846 8260B		10/13/15 06:35	CJG	A
Dibromofluoromethane (S)	83		%	78 - 116	SW846 8260B		10/13/15 06:35	CJG	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B		10/13/15 06:35	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 07:33	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941011** Date Collected: 10/7/2015 11:28 Matrix: Ground Water
 Sample ID: **058-1006-MW12S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	8.8		ug/L	1.0	SW846 8260B		10/12/15 21:43	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 23:02	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 21:43	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:43	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:43	CJG	A
Methyl t-Butyl Ether	12.8		ug/L	1.0	SW846 8260B		10/12/15 21:43	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 21:43	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:43	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 21:43	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:43	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 21:43	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	91.5		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 23:02	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.4		%	62 - 133	SW846 8260B		10/12/15 21:43	CJG	A
4-Bromofluorobenzene (S)	94.6		%	79 - 114	SW846 8260B		10/12/15 21:43	CJG	A
Dibromofluoromethane (S)	95.7		%	78 - 116	SW846 8260B		10/12/15 21:43	CJG	A
Toluene-d8 (S)	98.9		%	76 - 127	SW846 8260B		10/12/15 21:43	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 07:37	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

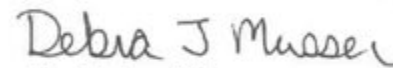
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941012** Date Collected: 10/6/2015 14:12 Matrix: Ground Water
 Sample ID: **058-1006-MW13S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:03	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 20:56	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 22:03	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:03	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:03	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 22:03	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 22:03	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:03	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 22:03	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:03	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:03	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	94		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 20:56	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.6		%	62 - 133	SW846 8260B		10/12/15 22:03	CJG	A
4-Bromofluorobenzene (S)	87.3		%	79 - 114	SW846 8260B		10/12/15 22:03	CJG	A
Dibromofluoromethane (S)	96.1		%	78 - 116	SW846 8260B		10/12/15 22:03	CJG	A
Toluene-d8 (S)	105		%	76 - 127	SW846 8260B		10/12/15 22:03	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 07:40	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941013** Date Collected: 10/6/2015 15:16 Matrix: Ground Water
 Sample ID: **058-1006-MW14S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:22	CJG	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	10/15/15 EGO	10/15/15 21:17	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 22:22	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:22	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:22	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 22:22	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 22:22	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:22	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 22:22	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:22	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:22	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	90.2		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 21:17	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.1		%	62 - 133	SW846 8260B		10/12/15 22:22	CJG	A
4-Bromofluorobenzene (S)	94.7		%	79 - 114	SW846 8260B		10/12/15 22:22	CJG	A
Dibromofluoromethane (S)	95.8		%	78 - 116	SW846 8260B		10/12/15 22:22	CJG	A
Toluene-d8 (S)	98.2		%	76 - 127	SW846 8260B		10/12/15 22:22	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 07:44	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

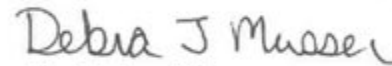
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941014** Date Collected: 10/7/2015 10:39 Matrix: Ground Water
 Sample ID: **058-1006-MW15S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:41	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 22:20	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 22:41	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:41	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:41	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 22:41	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 22:41	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:41	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 22:41	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:41	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 22:41	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	77.3		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 22:20	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.1		%	62 - 133	SW846 8260B		10/12/15 22:41	CJG	A
4-Bromofluorobenzene (S)	93.1		%	79 - 114	SW846 8260B		10/12/15 22:41	CJG	A
Dibromofluoromethane (S)	95.9		%	78 - 116	SW846 8260B		10/12/15 22:41	CJG	A
Toluene-d8 (S)	99.1		%	76 - 127	SW846 8260B		10/12/15 22:41	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 08:45	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941015** Date Collected: 10/7/2015 11:17 Matrix: Ground Water
 Sample ID: **058-1006-MW16S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:01	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 22:41	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 23:01	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:01	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:01	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 23:01	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 23:01	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:01	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 23:01	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:01	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:01	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	94.7		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 22:41	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.1		%	62 - 133	SW846 8260B		10/12/15 23:01	CJG	A
4-Bromofluorobenzene (S)	96.5		%	79 - 114	SW846 8260B		10/12/15 23:01	CJG	A
Dibromofluoromethane (S)	95		%	78 - 116	SW846 8260B		10/12/15 23:01	CJG	A
Toluene-d8 (S)	98.9		%	76 - 127	SW846 8260B		10/12/15 23:01	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 08:49	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941016** Date Collected: 10/6/2015 16:20 Matrix: Ground Water
 Sample ID: **058-1006-MW17S** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:20	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 21:38	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 23:20	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:20	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:20	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 23:20	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 23:20	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:20	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 23:20	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:20	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:20	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	74.7		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 21:38	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.3		%	62 - 133	SW846 8260B		10/12/15 23:20	CJG	A
4-Bromofluorobenzene (S)	96.2		%	79 - 114	SW846 8260B		10/12/15 23:20	CJG	A
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B		10/12/15 23:20	CJG	A
Toluene-d8 (S)	97.4		%	76 - 127	SW846 8260B		10/12/15 23:20	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:00	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941017** Date Collected: 10/7/2015 12:39 Matrix: Ground Water
 Sample ID: **058-1006-OW4** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:40	CJG	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	10/15/15 EGO	10/15/15 23:23	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 23:40	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:40	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:40	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 23:40	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 23:40	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:40	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 23:40	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:40	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:40	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	100		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 23:23	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.4		%	62 - 133	SW846 8260B		10/12/15 23:40	CJG	A
4-Bromofluorobenzene (S)	96.5		%	79 - 114	SW846 8260B		10/12/15 23:40	CJG	A
Dibromofluoromethane (S)	94.9		%	78 - 116	SW846 8260B		10/12/15 23:40	CJG	A
Toluene-d8 (S)	98.6		%	76 - 127	SW846 8260B		10/12/15 23:40	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:04	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941018** Date Collected: 10/8/2015 07:34 Matrix: Ground Water
 Sample ID: **058-1006-MW1d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:10	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/16/15 05:09	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 07:10	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:10	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:10	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 07:10	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 07:10	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:10	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 07:10	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:10	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:10	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	86.3		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 05:09	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B		10/13/15 07:10	CJG	A
4-Bromofluorobenzene (S)	94		%	79 - 114	SW846 8260B		10/13/15 07:10	CJG	A
Dibromofluoromethane (S)	88.7		%	78 - 116	SW846 8260B		10/13/15 07:10	CJG	A
Toluene-d8 (S)	98.1		%	76 - 127	SW846 8260B		10/13/15 07:10	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:07	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941019** Date Collected: 10/8/2015 08:30 Matrix: Ground Water
 Sample ID: **058-1006-MW2d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	4.5		ug/L	1.0	SW846 8260B		10/13/15 07:27	CJG	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	10/15/15 EGO	10/16/15 05:31	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 07:27	CJG	A
Ethylbenzene	11.5		ug/L	1.0	SW846 8260B		10/13/15 07:27	CJG	A
Isopropylbenzene	3.8		ug/L	1.0	SW846 8260B		10/13/15 07:27	CJG	A
Methyl t-Butyl Ether	8.0		ug/L	1.0	SW846 8260B		10/13/15 07:27	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 07:27	CJG	A
Toluene	1.7		ug/L	1.0	SW846 8260B		10/13/15 07:27	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 07:27	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:27	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:27	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	91.3		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 05:31	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B		10/13/15 07:27	CJG	A
4-Bromofluorobenzene (S)	99.7		%	79 - 114	SW846 8260B		10/13/15 07:27	CJG	A
Dibromofluoromethane (S)	87.3		%	78 - 116	SW846 8260B		10/13/15 07:27	CJG	A
Toluene-d8 (S)	99.3		%	76 - 127	SW846 8260B		10/13/15 07:27	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:11	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

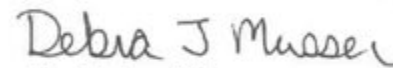
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941020** Date Collected: 10/7/2015 14:40 Matrix: Ground Water
 Sample ID: **058-1006-MW6d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:45	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/16/15 02:59	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 07:45	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:45	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:45	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 07:45	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 07:45	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:45	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 07:45	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:45	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 07:45	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	86.7		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 02:59	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B		10/13/15 07:45	CJG	A
4-Bromofluorobenzene (S)	96.7		%	79 - 114	SW846 8260B		10/13/15 07:45	CJG	A
Dibromofluoromethane (S)	91		%	78 - 116	SW846 8260B		10/13/15 07:45	CJG	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B		10/13/15 07:45	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:15	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941021** Date Collected: 10/8/2015 08:00 Matrix: Ground Water
 Sample ID: **058-1006-MW7d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	7.5		ug/L	1.0	SW846 8260B		10/13/15 08:02	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/16/15 05:52	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 08:02	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:02	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:02	CJG	A
Methyl t-Butyl Ether	9.1		ug/L	1.0	SW846 8260B		10/13/15 08:02	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 08:02	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:02	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 08:02	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:02	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:02	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	84.5		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 05:52	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B		10/13/15 08:02	CJG	A
4-Bromofluorobenzene (S)	97.5		%	79 - 114	SW846 8260B		10/13/15 08:02	CJG	A
Dibromofluoromethane (S)	86.3		%	78 - 116	SW846 8260B		10/13/15 08:02	CJG	A
Toluene-d8 (S)	99.9		%	76 - 127	SW846 8260B		10/13/15 08:02	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:19	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941022** Date Collected: 10/8/2015 08:00 Matrix: Ground Water
 Sample ID: **058-1006-MW7d Dup** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	7.4		ug/L	1.0	SW846 8260B		10/13/15 08:19	CJG	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	10/15/15 EGO	10/16/15 06:14	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 08:19	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:19	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:19	CJG	A
Methyl t-Butyl Ether	8.8		ug/L	1.0	SW846 8260B		10/13/15 08:19	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 08:19	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:19	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 08:19	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:19	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:19	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	86.3		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 06:14	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B		10/13/15 08:19	CJG	A
4-Bromofluorobenzene (S)	97.9		%	79 - 114	SW846 8260B		10/13/15 08:19	CJG	A
Dibromofluoromethane (S)	87.3		%	78 - 116	SW846 8260B		10/13/15 08:19	CJG	A
Toluene-d8 (S)	100		%	76 - 127	SW846 8260B		10/13/15 08:19	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:34	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

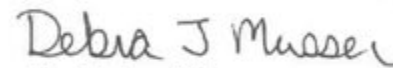
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941023** Date Collected: 10/6/2015 10:09 Matrix: Ground Water
 Sample ID: **058-1006-MW8d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:59	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 19:10	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 23:59	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:59	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:59	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 23:59	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 23:59	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:59	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 23:59	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:59	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 23:59	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	93		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 19:10	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.5		%	62 - 133	SW846 8260B		10/12/15 23:59	CJG	A
4-Bromofluorobenzene (S)	88.9		%	79 - 114	SW846 8260B		10/12/15 23:59	CJG	A
Dibromofluoromethane (S)	96.2		%	78 - 116	SW846 8260B		10/12/15 23:59	CJG	A
Toluene-d8 (S)	106		%	76 - 127	SW846 8260B		10/12/15 23:59	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:38	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941024** Date Collected: 10/6/2015 11:55 Matrix: Ground Water
 Sample ID: **058-1006-MW9d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:19	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 19:52	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 00:19	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:19	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:19	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 00:19	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 00:19	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:19	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 00:19	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:19	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:19	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	95.1		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 19:52	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.3		%	62 - 133	SW846 8260B		10/13/15 00:19	CJG	A
4-Bromofluorobenzene (S)	94.9		%	79 - 114	SW846 8260B		10/13/15 00:19	CJG	A
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B		10/13/15 00:19	CJG	A
Toluene-d8 (S)	96.4		%	76 - 127	SW846 8260B		10/13/15 00:19	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:41	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

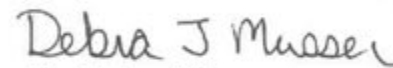
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941025** Date Collected: 10/6/2015 11:55 Matrix: Ground Water
 Sample ID: **058-1006-MW9d Dup** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:38	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 20:13	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 00:38	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:38	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:38	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 00:38	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 00:38	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:38	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 00:38	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:38	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:38	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	91.5		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 20:13	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.8		%	62 - 133	SW846 8260B		10/13/15 00:38	CJG	A
4-Bromofluorobenzene (S)	96.3		%	79 - 114	SW846 8260B		10/13/15 00:38	CJG	A
Dibromofluoromethane (S)	95.5		%	78 - 116	SW846 8260B		10/13/15 00:38	CJG	A
Toluene-d8 (S)	98.6		%	76 - 127	SW846 8260B		10/13/15 00:38	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:45	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941026** Date Collected: 10/8/2015 14:11 Matrix: Ground Water
 Sample ID: **058-1006-MW10d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:37	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/16/15 06:35	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 08:37	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:37	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:37	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 08:37	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 08:37	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:37	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 08:37	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:37	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:37	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	95.2		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 06:35	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B		10/13/15 08:37	CJG	A
4-Bromofluorobenzene (S)	97.4		%	79 - 114	SW846 8260B		10/13/15 08:37	CJG	A
Dibromofluoromethane (S)	90.1		%	78 - 116	SW846 8260B		10/13/15 08:37	CJG	A
Toluene-d8 (S)	98.5		%	76 - 127	SW846 8260B		10/13/15 08:37	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:49	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

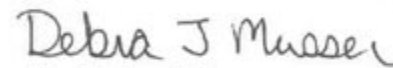
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941027** Date Collected: 10/8/2015 11:31 Matrix: Ground Water
 Sample ID: **058-1006-MW11d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:54	CJG	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	10/15/15 EGO	10/16/15 06:57	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 08:54	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:54	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:54	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 08:54	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 08:54	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:54	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 08:54	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:54	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 08:54	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	90.8		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 06:57	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B		10/13/15 08:54	CJG	A
4-Bromofluorobenzene (S)	99.1		%	79 - 114	SW846 8260B		10/13/15 08:54	CJG	A
Dibromofluoromethane (S)	91.4		%	78 - 116	SW846 8260B		10/13/15 08:54	CJG	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B		10/13/15 08:54	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:53	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

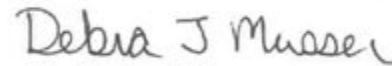
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941028** Date Collected: 10/8/2015 10:19 Matrix: Ground Water
 Sample ID: **058-1006-MW12d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:33	TMP	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/16/15 07:18	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 14:33	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:33	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:33	TMP	A
Methyl t-Butyl Ether	2.6		ug/L	1.0	SW846 8260B		10/13/15 14:33	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 14:33	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:33	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 14:33	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:33	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:33	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	91.6		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 07:18	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B		10/13/15 14:33	TMP	A
4-Bromofluorobenzene (S)	97		%	79 - 114	SW846 8260B		10/13/15 14:33	TMP	A
Dibromofluoromethane (S)	89.7		%	78 - 116	SW846 8260B		10/13/15 14:33	TMP	A
Toluene-d8 (S)	96.9		%	76 - 127	SW846 8260B		10/13/15 14:33	TMP	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 09:56	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

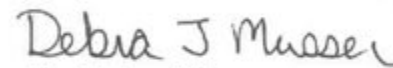
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941029** Date Collected: 10/6/2015 13:56 Matrix: Ground Water
 Sample ID: **058-1006-MW13d** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:58	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 20:34	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 00:58	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:58	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:58	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 00:58	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 00:58	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:58	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 00:58	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:58	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 00:58	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	97.5		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 20:34	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.4		%	62 - 133	SW846 8260B		10/13/15 00:58	CJG	A
4-Bromofluorobenzene (S)	89.6		%	79 - 114	SW846 8260B		10/13/15 00:58	CJG	A
Dibromofluoromethane (S)	96.1		%	78 - 116	SW846 8260B		10/13/15 00:58	CJG	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B		10/13/15 00:58	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 10:00	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

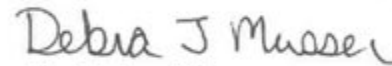
ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941030**
 Sample ID: **058-1006-FB1**

 Date Collected: 10/6/2015 16:35 Matrix: Water
 Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:06	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/15/15 21:59	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/12/15 20:06	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:06	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:06	CJG	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/12/15 20:06	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/12/15 20:06	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:06	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/12/15 20:06	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:06	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/12/15 20:06	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	91.8		%	70 - 130	EPA 504.1	10/15/15 EGO	10/15/15 21:59	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.3		%	62 - 133	SW846 8260B		10/12/15 20:06	CJG	A
4-Bromofluorobenzene (S)	97.5		%	79 - 114	SW846 8260B		10/12/15 20:06	CJG	A
Dibromofluoromethane (S)	94		%	78 - 116	SW846 8260B		10/12/15 20:06	CJG	A
Toluene-d8 (S)	97.3		%	76 - 127	SW846 8260B		10/12/15 20:06	CJG	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 10:04	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

Lab ID: **2100941031**
Sample ID: **058-1006-FB2**

Date Collected: 10/7/2015 15:02 Matrix: Water
Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 13:58	TMP	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/16/15 03:20	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 13:58	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 13:58	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 13:58	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 13:58	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 13:58	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 13:58	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 13:58	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 13:58	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 13:58	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	89.7		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 03:20	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B		10/13/15 13:58	TMP	A
4-Bromofluorobenzene (S)	99.1		%	79 - 114	SW846 8260B		10/13/15 13:58	TMP	A
Dibromofluoromethane (S)	88.4		%	78 - 116	SW846 8260B		10/13/15 13:58	TMP	A
Toluene-d8 (S)	99.8		%	76 - 127	SW846 8260B		10/13/15 13:58	TMP	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 10:08	ZMC	E1

Debra J Musser
Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

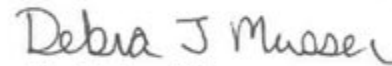
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2100941 27058/Lewis Bros Garage

 Lab ID: **2100941032** Date Collected: 10/8/2015 15:30 Matrix: Water
 Sample ID: **058-1006-FB3** Date Received: 10/9/2015 09:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS									
Benzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:16	TMP	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	10/15/15 EGO	10/16/15 07:39	EGO	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B		10/13/15 14:16	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:16	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:16	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B		10/13/15 14:16	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B		10/13/15 14:16	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:16	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B		10/13/15 14:16	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:16	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B		10/13/15 14:16	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	96		%	70 - 130	EPA 504.1	10/15/15 EGO	10/16/15 07:39	EGO	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62 - 133	SW846 8260B		10/13/15 14:16	TMP	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B		10/13/15 14:16	TMP	A
Dibromofluoromethane (S)	90.1		%	78 - 116	SW846 8260B		10/13/15 14:16	TMP	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B		10/13/15 14:16	TMP	A
METALS									
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	10/14/15 ZMC	10/16/15 10:23	ZMC	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Environmental

Co. Name: PENNSYLVANIA TECTONICS INC.
Contact (Business): MARTIN GILGALLON Phone: 570-487-1959
Address: 723 MAIN STREET
ARCHBALD PA 18403

Bill to (if different than Report to):

PO#:

Project Name#: 21058/LEXIS BROS GARAGE ALS Quote #: _____

TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.

Email? Y N GILGALLON@PAPECTONICS.COM
Fax? Y N

Sample Description/Location <small>(As it will appear on the lab report)</small>	COC Comments	Sample Date	Military Time
1 058 - 1006 - MW 2s		10.7.15	1400
2 058 - 1006 - MW 3s		10.7.15	1345
3 058 - 1006 - MW 4s		10.7.15	1415
4 058 - 1006 - MW 5s		10.7.15	1310
5 058 - 1006 - MW 5s Dup		10.7.15	1310
6 058 - 1006 - MW 7s		10.8.15	0933
7 058 - 1006 - MW 8s		10.6.15	0903
8 058 - 1006 - MW 9s		10.6.15	1104

SAMPLED BY (Please Print):

Kevin Gwura

Project Comments:

* = M2-5203

Date	Time	Received By / Company Name	Date	Time
10.9.15	0710	PA Tectonics	10.9.15	0710
10.9.15	0955	PA Tectonics	10.9.15	0955

Relinquished By / Company Name

PA Tectonics

Container Type	CG	CG	PL
40ml			
Preservative	HCl	*	H2O2

ANALYSIS/METHOD REQUESTED

Matrix	Enter Number of Containers Per Analysis
Laded / unladed gasoline	2
New List - EPA 8260B	2
Laded / unladed gasoline	2
New List - EDB 504	2
Laded / unladed gasoline	2
Dissolving Lead (Std. ft. Hand)	1

No. of Coolers: _____

Notes: _____

Therm. ID: HRY

Correct containers? Y N

(if present) Seals Intact? Y N

Correct sample volume? Y N

Correct preservation? Y N

Headspace/Volatiles? Y N

COC Labels complete/accurate? Y N

Received on Ice? Y N

Container in good condition? Y N

ALS FIELD SERVICES

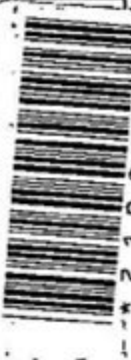
Standard CLP-like NJ-Reduced NJ-Full

State Samples Collected In? MD NJ NY PA

SOA Forms? yes no

Other: _____

Page 1 of 4
Courier: Hand
Tracking #: Delivered





34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Page 2 of 4
Courier: Hand
Tracking #: Delivered

99001

Co. Name: **PENNSYLVANIA TECTONICS INC.** Phone: **570-487-1959**
Contact (Project #): **MARTIN GILGALLON**
Address: **723 MAIN STREET**
ARCHBALD PA 18403

Bill to (if different than Report to):

PO#:

Project Name#: **27058/LENIS BRAS GARAGE ALS Quote #:**

TAT: Normal Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.

Email? -Y No.: **mbilgallon@patectionics.com**

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time
1 058-1006-MW10S		10-8-15	1504
2 058-1006-MW11S		10-8-15	1307
3 058-1006-MW12S		10-7-15	1128
4 058-1006-MW13S		10-6-15	1412
5 058-1006-MW14S		10-6-15	1516
6 058-1006-MW15S		10-7-15	1039
7 058-1006-MW16S		10-7-15	1117
8 058-1006-MW17S		10-6-15	1620

SAMPLED BY (Please Print):

Kevin Cucuba

Project Comments:

* = Na_2SeO_3

Reinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Kevin Cucuba	10-9-15	0710	PA Tectonics	10-9-15	0710
PA Tectonics	10-7-15	0955	PA Tectonics	10-7-15	0955

Container Type	CG	C6	PL
Container Size	40ml	40ml	250ml
Preservative	HCl	*	HNO3

ANALYSES/METHOD REQUESTED

Matrix	Enter Number of Containers Per Analysis
Lead/Unleaded Gasoline	2
New List - EPA 8260B	2
Lead/Unleaded Gasoline	2
New List - EDB 504	2
New List	2
Dissolved Lead (field filtered)	1

Receipt Information	Container in good condition?	COC Labels complete/accurate?	Received on ice?	(if present) Seats Intact?	Custody seats Present?
Headed by	Y	Y	Y	Y	Y
Checked by	N	N	N	N	N
Correct preservation?	Y	Y	Y	Y	Y
Headspace/Voliles?	Y	Y	Y	Y	Y
Correct sample volume?	Y	Y	Y	Y	Y
Therm. ID:	Y	Y	Y	Y	Y
Therm. ID:	Y	Y	Y	Y	Y
Notes:					

ALS FIELD SERVICES	
Recap	<input type="checkbox"/>
Laber	<input type="checkbox"/>
Composite Sampling	<input type="checkbox"/>
Rental Equipment	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Standard	State Samples
<input checked="" type="checkbox"/> Standard	State Samples
<input type="checkbox"/> CLP-8/10	Delivered In/
<input type="checkbox"/> NJ-Reduced	MD <input type="checkbox"/>
<input type="checkbox"/> NJ-FU8	NJ <input type="checkbox"/>
<input type="checkbox"/> If yes, format type:	NY <input type="checkbox"/>
	PA <input checked="" type="checkbox"/>
	Other



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
SAMPLER. INSTRUCTIONS ON THE BACK.

Environmental

Co. Name: PENNSYLVANIA TECTONICS INC.

Contact (Report to): MARTIN GILGALLON Phone: 570-487-1959

Address: 723 MAIN STREET
ARCHBALD PA 18403

Bill to (if different than Report to):

PO#:

Project Name#: 27058/LEWIS BROS GARAGE ALS Quote #:

TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.

Email? Y N Email: MGILGALLON@PATECTONICS.COM

Fax? Y N

Sample Description/Location <small>(as it will appear on the lab report)</small>	COC Comments	Sample Date	Military Time
1 058 - 1006 - gw 4		10.7.15	1239
2 058 - 1006 - mw 1d		10.8.15	0734
3 058 - 1006 - mw 2d		10.8.15	0830
4 058 - 1006 - mw 6d		10.7.15	1440
5 058 - 1006 - mw 7d		10.8.15	0800
6 058 - 1006 - mw 7d Dup		10.8.15	0800
7 058 - 1006 - mw 8d		10.6.15	1009
8 058 - 1006 - mw 9d		10.6.15	1155

SAMPLED BY (Please Print):

Kevin Cucura

Project Comments:

* = Na₂S₂O₃

Rec'd 10/9 2349

Reinquished By / Company Name

Kevin Cucura / PA Tectonics

Date

10.9.15 0710
10.9.15 0955

Received By / Company Name

PA Tectonics

Date

10.9.15 0710

Time

0955

Date

10/9/15

Time

2349

Container Type	CG	CG	PL
40ml	40ml	40ml	250ml
Preservative	HCl	*	HNO ₃

ANALYSES/METHOD REQUESTED

Matrix	Enter Number of Containers Per Analysis
Loaded / unleaded gasoline	2
new list - EPA 8200B	2
Loaded / unleaded gasoline	2
new list - EDB 504	2
Loaded / unleaded gasoline	2
new list - EDB 504	2
Loaded / unleaded gasoline	2
new list - EDB 504	2
Loaded / unleaded gasoline	2
new list - EDB 504	2

Receipt Information (Required by State Reporting)

Container in good condition? Y N

CO Labels complete/accurate? Y N

Received on ice? Y N

(if present) Seals intact? Y N

Custody seals present? Y N

Correct containers? Y N

Correct sample volume? Y N

Correct preservation? Y N

Headspace/Volatiles? Y N

Circle appropriate Y or N.

Therm. ID: HP20

No. of Coolers: 2

Notes:

ALS FIELD SERVICES

Pickup

Lab

Composites Sampling

Rental Equipment

Other

SDWA Data Deliverables

Standard CLP-like NJ-Reduced NJ-Full

SDWA Forms? MD NJ NY PA

Collected in? Other

DOO Criteria Required?

Page 3 of 4
Courier: Hand
Tracking #: Delivered





34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Environmental

Co. Name: PENNSYLVANIA TECTONICS INC
Contact (Project Site): MARTIN GILGALLON Phone: 570-487-1959
Address: 723 MAIN STREET ARCHBALD PA 18403

Bill to (if different than Report to):

PO#:

Project Name#: 27058/LEWIS BROS GARAGE ALS Quote #:

TAT: Normal-Standard TAT is 10-12 business days. Data Required:
 Rush-Subject to ALS approval and surcharges. Approved By:

Email? Y N mgilgallon@patectonics.com

Fax? Y N

Sample Description/Location <small>(As it will appear on the lab report)</small>	COC Comments	Sample Date	Military Time
1 058-1006-MW9d Dup		10.6.15	1155
2 058-1006-MW 10d		10.8.15	1411
3 058-1006-MW 11d		10.8.15	1131
4 058-1006-MW 12d		10.8.15	1019
5 058-1006-MW 13d		10.6.15	1356
6 058-1006-FB 1		10.6.15	1635
7 058-1006-FB 2		10.7.15	1502
8 058-1006-FB 3		10.8.15	1530

SAMPLED BY (Please Print):

KEVIN CUSURA

Project Comments:

* = Na₂SeO₃

Relinquished By / Company Name

By PA Tectonics

Date

10.9.15 0710

Time

0955

Received By / Company Name

PA Tectonics

Date

10.9.15 0710

Time

0955

Container Type	CG	CG	PL	ANALYSES/METHOD REQUESTED	Enter Number of Containers Per Analysis
40ml	40ml	40ml	750ml		
HCl	*	HNO ₃			
Lead/Amked gasoline					
New list - EPA 8260 B					
Lead/Amked gasoline					
New list - EPA 8260 B					
Lead/Amked gasoline					
New list - EDB 504					
Lead/Amked gasoline					
Dissolved lead (field filtered)					

Receipt Information (checked by Sample Receiver):
 Received by: Kevin Cusura
 Date: 10/9/15
 Cooler Temp: 5
 Therm. ID: 11281
 No. of Coolers: 2
 Notes:

Correct containers?	Y
Correct sample volume?	Y
Correct preservation?	Y
Headspace/Voliles?	Y
Container in good condition?	N

Circle appropriate Y or N.

ALS FIELD SERVICES

Review Labor Composite Sampling Rental Equipment Other

SWM Data Deliverables

Standard CLP-like NJ-Reduced NJ-Full

SWM Farms? yes no

State Samples Collected In? MD NJ NY PA

EDS Required? yes no

DOD Criteria Required? yes no

Page 4 of 4
 Courier: 9011#
 Tracking #: D



Groundwater Sampling Analytical Data Sheets

March 30, 2016 through April 1, 2016

April 13, 2016

Mr. Marty Gilgallon
PA Tectonics
723 Main Street
Archbald, PA 18403

Certificate of Analysis

Project Name:	27058 Lewis Brothers Garage	Workorder:	2133997
Purchase Order:		Workorder ID:	27058 Lewis Brothers Garage

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, April 5, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

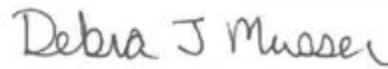
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Debra J. Musser
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2133997 27058 Lewis Brothers Garage

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2133997001	058-0330-MW2S	Ground Water	4/1/2016 10:20	4/5/2016 09:49	Collected by Client
2133997002	058-0330-MW3S	Ground Water	4/1/2016 10:35	4/5/2016 09:49	Collected by Client
2133997003	058-0330-MW4S	Ground Water	4/1/2016 15:30	4/5/2016 09:49	Collected by Client
2133997004	058-0330-MW5S	Ground Water	4/1/2016 11:50	4/5/2016 09:49	Collected by Client
2133997005	058-0330-MW5S DUP	Ground Water	4/1/2016 12:00	4/5/2016 09:49	Collected by Client
2133997006	058-0330-MW7S	Ground Water	3/30/2016 13:25	4/5/2016 09:49	Collected by Client
2133997007	058-0330-MW8S	Ground Water	3/30/2016 11:02	4/5/2016 09:49	Collected by Client
2133997008	058-0330-MW9S	Ground Water	3/30/2016 12:25	4/5/2016 09:49	Collected by Client
2133997009	058-0330-MW10S	Ground Water	3/30/2016 16:45	4/5/2016 09:49	Collected by Client
2133997010	058-0330-MW11S	Ground Water	4/1/2016 14:48	4/5/2016 09:49	Collected by Client
2133997011	058-0330-MW12S	Ground Water	3/31/2016 17:05	4/5/2016 09:49	Collected by Client
2133997012	058-0330-MW13S	Ground Water	3/31/2016 16:40	4/5/2016 09:49	Collected by Client
2133997013	058-0330-MW14S	Ground Water	3/30/2016 15:08	4/5/2016 09:49	Collected by Client
2133997014	058-0330-MW15S	Ground Water	3/31/2016 15:55	4/5/2016 09:49	Collected by Client
2133997015	058-0330-MW16S	Ground Water	3/31/2016 15:35	4/5/2016 09:49	Collected by Client
2133997016	058-0330-MW17S	Ground Water	3/31/2016 15:10	4/5/2016 09:49	Collected by Client
2133997017	058-0330-OW4	Ground Water	4/1/2016 11:00	4/5/2016 09:49	Collected by Client
2133997018	058-0330-MW-1d	Ground Water	4/1/2016 14:00	4/5/2016 09:49	Collected by Client
2133997019	058-0330-MW-2d	Ground Water	4/1/2016 16:20	4/5/2016 09:49	Collected by Client
2133997020	058-0330-MW-6d	Ground Water	4/1/2016 14:10	4/5/2016 09:49	Collected by Client
2133997021	058-0330-MW-7d	Ground Water	3/31/2016 17:40	4/5/2016 09:49	Collected by Client
2133997022	058-0330-MW-7d Dup	Ground Water	3/31/2016 14:50	4/5/2016 09:49	Collected by Client
2133997023	058-0330-MW-8d	Ground Water	3/31/2016 08:20	4/5/2016 09:49	Collected by Client
2133997024	058-0330-MW-9d	Ground Water	3/31/2016 09:15	4/5/2016 09:49	Collected by Client
2133997025	058-0330-MW-9d DUP	Ground Water	3/31/2016 09:18	4/5/2016 09:49	Collected by Client
2133997026	058-0330-MW-10d	Ground Water	4/1/2016 16:09	4/5/2016 09:49	Collected by Client
2133997027	058-0330-MW-11d	Ground Water	4/1/2016 14:08	4/5/2016 09:49	Collected by Client
2133997028	058-0330-MW-12d	Ground Water	4/1/2016 14:19	4/5/2016 09:49	Collected by Client
2133997029	058-0330-MW-13d	Ground Water	4/1/2016 13:17	4/5/2016 09:49	Collected by Client
2133997030	058-0330-FB1	Ground Water	3/30/2016 16:50	4/5/2016 09:49	Collected by Client
2133997031	058-0330-FB2	Ground Water	3/31/2016 17:15	4/5/2016 09:49	Collected by Client
2133997032	058-0330-FB3	Ground Water	4/1/2016 15:55	4/5/2016 09:49	Collected by Client
2133997033	058-8330-MW6S	Ground Water	4/1/2016 12:12	4/5/2016 09:49	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2133997 27058 Lewis Brothers Garage

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

PROJECT SUMMARY

Workorder: 2133997 27058 Lewis Brothers Garage

Sample Comments

Lab ID: 2133997001	Sample ID: 058-0330-MW2S	Sample Type: SAMPLE
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.		
Lab ID: 2133997002	Sample ID: 058-0330-MW3S	Sample Type: SAMPLE
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.		
Lab ID: 2133997003	Sample ID: 058-0330-MW4S	Sample Type: SAMPLE
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.		
Lab ID: 2133997009	Sample ID: 058-0330-MW10S	Sample Type: SAMPLE
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.		
Lab ID: 2133997010	Sample ID: 058-0330-MW11S	Sample Type: SAMPLE
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.		

ALS Environmental Laboratory Locations Across North America

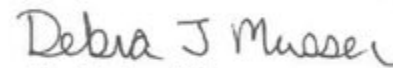
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2133997 27058 Lewis Brothers Garage

 Lab ID: **2133997001** Date Collected: 4/1/2016 10:20 Matrix: Ground Water
 Sample ID: **058-0330-MW2S** Date Received: 4/5/2016 09:49

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	972		ug/L	50.0	SW846 8260B			4/12/16 00:13	CJG	A
1,2-Dibromoethane	5.5		ug/L	1.0	EPA 504.1	4/8/16 09:40	BS	4/11/16 23:49	BS	C
1,2-Dichloroethane	ND		ug/L	50.0	SW846 8260B			4/12/16 00:13	CJG	A
Ethylbenzene	1040		ug/L	50.0	SW846 8260B			4/12/16 00:13	CJG	A
Isopropylbenzene	99.6		ug/L	50.0	SW846 8260B			4/12/16 00:13	CJG	A
Methyl t-Butyl Ether	175		ug/L	50.0	SW846 8260B			4/12/16 00:13	CJG	A
Naphthalene	191		ug/L	100	SW846 8260B			4/12/16 00:13	CJG	A
Toluene	1810		ug/L	50.0	SW846 8260B			4/12/16 00:13	CJG	A
Total Xylenes	3540		ug/L	150	SW846 8260B			4/12/16 00:13	CJG	A
1,2,4-Trimethylbenzene	1300		ug/L	50.0	SW846 8260B			4/12/16 00:13	CJG	A
1,3,5-Trimethylbenzene	299		ug/L	50.0	SW846 8260B			4/12/16 00:13	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	117		%	70 - 130	EPA 504.1	4/8/16 09:40	BS	4/8/16 21:21	BS	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62 - 133	SW846 8260B			4/12/16 00:13	CJG	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B			4/12/16 00:13	CJG	A
Dibromofluoromethane (S)	94.1		%	78 - 116	SW846 8260B			4/12/16 00:13	CJG	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			4/12/16 00:13	CJG	A
METALS										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/6/16 10:53	MO	4/6/16 15:13	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

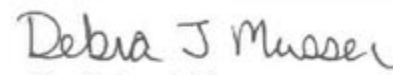
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2133997 27058 Lewis Brothers Garage

 Lab ID: **2133997002** Date Collected: 4/1/2016 10:35 Matrix: Ground Water
 Sample ID: **058-0330-MW3S** Date Received: 4/5/2016 09:49

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	4730		ug/L	100	SW846 8260B			4/12/16 00:30	CJG	A
1,2-Dibromoethane	1.1		ug/L	0.20	EPA 504.1	4/11/16 10:45	EGO	4/12/16 08:53	BS	C
1,2-Dichloroethane	ND		ug/L	100	SW846 8260B			4/12/16 00:30	CJG	A
Ethylbenzene	2310		ug/L	100	SW846 8260B			4/12/16 00:30	CJG	A
Isopropylbenzene	208		ug/L	100	SW846 8260B			4/12/16 00:30	CJG	A
Methyl t-Butyl Ether	595		ug/L	100	SW846 8260B			4/12/16 00:30	CJG	A
Naphthalene	713		ug/L	200	SW846 8260B			4/12/16 00:30	CJG	A
Toluene	12100		ug/L	100	SW846 8260B			4/12/16 00:30	CJG	A
Total Xylenes	14700		ug/L	300	SW846 8260B			4/12/16 00:30	CJG	A
1,2,4-Trimethylbenzene	3980		ug/L	100	SW846 8260B			4/12/16 00:30	CJG	A
1,3,5-Trimethylbenzene	985		ug/L	100	SW846 8260B			4/12/16 00:30	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	98.4		%	70 - 130	EPA 504.1	4/11/16 10:45	EGO	4/12/16 08:53	BS	C
1-Chloro-2-Fluorobenzene (S)	106		%	70 - 130	EPA 504.1	4/11/16 10:45	EGO	4/11/16 15:34	BS	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62 - 133	SW846 8260B			4/12/16 00:30	CJG	A
4-Bromofluorobenzene (S)	108		%	79 - 114	SW846 8260B			4/12/16 00:30	CJG	A
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B			4/12/16 00:30	CJG	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B			4/12/16 00:30	CJG	A
METALS										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/6/16 10:53	MO	4/6/16 15:24	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2133997 27058 Lewis Brothers Garage

 Lab ID: **2133997003** Date Collected: 4/1/2016 15:30 Matrix: Ground Water
 Sample ID: **058-0330-MW4S** Date Received: 4/5/2016 09:49

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	35.0		ug/L	5.0	SW846 8260B			4/12/16 00:47	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	4/11/16 10:45	EGO	4/11/16 19:30	BS	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			4/12/16 00:47	CJG	A
Ethylbenzene	243		ug/L	5.0	SW846 8260B			4/12/16 00:47	CJG	A
Isopropylbenzene	38.0		ug/L	5.0	SW846 8260B			4/12/16 00:47	CJG	A
Methyl t-Butyl Ether	519		ug/L	5.0	SW846 8260B			4/12/16 00:47	CJG	A
Naphthalene	34.3		ug/L	10.0	SW846 8260B			4/12/16 00:47	CJG	A
Toluene	42.5		ug/L	5.0	SW846 8260B			4/12/16 00:47	CJG	A
Total Xylenes	224		ug/L	15.0	SW846 8260B			4/12/16 00:47	CJG	A
1,2,4-Trimethylbenzene	178		ug/L	5.0	SW846 8260B			4/12/16 00:47	CJG	A
1,3,5-Trimethylbenzene	10.1		ug/L	5.0	SW846 8260B			4/12/16 00:47	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	127		%	70 - 130	EPA 504.1	4/11/16 10:45	EGO	4/11/16 19:30	BS	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99.2		%	62 - 133	SW846 8260B			4/12/16 00:47	CJG	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B			4/12/16 00:47	CJG	A
Dibromofluoromethane (S)	89.5		%	78 - 116	SW846 8260B			4/12/16 00:47	CJG	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			4/12/16 00:47	CJG	A
METALS										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/6/16 10:53	MO	4/6/16 11:39	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America


 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2133997 27058 Lewis Brothers Garage

 Lab ID: **2133997004** Date Collected: 4/1/2016 11:50 Matrix: Ground Water
 Sample ID: **058-0330-MW5S** Date Received: 4/5/2016 09:49

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			4/12/16 15:27	TMP	B
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	4/11/16 10:45	EGO	4/11/16 16:17	BS	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			4/12/16 15:27	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			4/12/16 15:27	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			4/12/16 15:27	TMP	B
Methyl t-Butyl Ether	7.3		ug/L	1.0	SW846 8260B			4/12/16 15:27	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			4/12/16 15:27	TMP	B
Toluene	ND		ug/L	1.0	SW846 8260B			4/12/16 15:27	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			4/12/16 15:27	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/12/16 15:27	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/12/16 15:27	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	90.3		%	70 - 130	EPA 504.1	4/11/16 10:45	EGO	4/11/16 16:17	BS	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62 - 133	SW846 8260B			4/12/16 15:27	TMP	B
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			4/12/16 15:27	TMP	B
Dibromofluoromethane (S)	94.5		%	78 - 116	SW846 8260B			4/12/16 15:27	TMP	B
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			4/12/16 15:27	TMP	B
METALS										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/6/16 10:53	MO	4/6/16 11:48	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

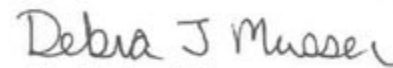
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2133997 27058 Lewis Brothers Garage

 Lab ID: **2133997005** Date Collected: 4/1/2016 12:00 Matrix: Ground Water
 Sample ID: **058-0330-MW5S DUP** Date Received: 4/5/2016 09:49

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			4/11/16 20:48	CJG	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	4/11/16 10:45	EGO	4/11/16 16:38	BS	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			4/11/16 20:48	CJG	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			4/11/16 20:48	CJG	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			4/11/16 20:48	CJG	A
Methyl t-Butyl Ether	7.5		ug/L	1.0	SW846 8260B			4/11/16 20:48	CJG	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			4/11/16 20:48	CJG	A
Toluene	ND		ug/L	1.0	SW846 8260B			4/11/16 20:48	CJG	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			4/11/16 20:48	CJG	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/11/16 20:48	CJG	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/11/16 20:48	CJG	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	94.4		%	70 - 130	EPA 504.1	4/11/16 10:45	EGO	4/11/16 16:38	BS	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	62 - 133	SW846 8260B			4/11/16 20:48	CJG	A
4-Bromofluorobenzene (S)	111		%	79 - 114	SW846 8260B			4/11/16 20:48	CJG	A
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B			4/11/16 20:48	CJG	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B			4/11/16 20:48	CJG	A
METALS										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/6/16 10:53	MO	4/6/16 12:22	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

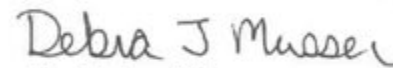
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2133997 27058 Lewis Brothers Garage

 Lab ID: **2133997006** Date Collected: 3/30/2016 13:25 Matrix: Ground Water
 Sample ID: **058-0330-MW7S** Date Received: 4/5/2016 09:49

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			4/8/16 01:01	SYB	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	4/8/16 09:40	BS	4/8/16 15:14	BS	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			4/8/16 01:01	SYB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			4/8/16 01:01	SYB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			4/8/16 01:01	SYB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			4/8/16 01:01	SYB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			4/8/16 01:01	SYB	A
Toluene	ND		ug/L	1.0	SW846 8260B			4/8/16 01:01	SYB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			4/8/16 01:01	SYB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/8/16 01:01	SYB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/8/16 01:01	SYB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	95.5		%	70 - 130	EPA 504.1	4/8/16 09:40	BS	4/8/16 15:14	BS	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B			4/8/16 01:01	SYB	A
4-Bromofluorobenzene (S)	105		%	79 - 114	SW846 8260B			4/8/16 01:01	SYB	A
Dibromofluoromethane (S)	96.6		%	78 - 116	SW846 8260B			4/8/16 01:01	SYB	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			4/8/16 01:01	SYB	A
METALS										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/6/16 10:53	MO	4/6/16 12:26	MO	E1


 Ms. Debra J. Musser
 Project Coordinator

ALS Environmental Laboratory Locations Across North America

 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey