



**Supplemental Limited and Focused Subsurface  
Soil & Groundwater Investigation Report for the  
Property Identified as:**

**226 North Allen Street  
Albany, New York**

**LCS PROJECT # 16H6938.22  
NYSDEC SPILL # 16-10703**

**JUNE 22, 2017**

June 22, 2017

Ms. Theresa Jorgensen  
SEFCU  
469 State Street  
Schenectady, New York 12305

**Re: Supplemental Limited and Focused Subsurface Soil & Groundwater Investigation  
226 North Allen Street  
Albany, New York  
LCS Project No. 16H6938.22  
NYSDEC Spill # 16-10703**

Dear Ms. Jorgensen:

### **Background**

At your request, Lender Consulting Services, Inc. (LCS) performed a supplemental limited and focused subsurface soil and groundwater investigation, located at 226 North Allen Street, Albany, New York (See Figure 1). The subject property measures approximately 1.12 acres and is occupied by one 2-story structure. The subject property is located in a moderately developed commercial and residential area. The topography of the site is generally level at grade.

LCS' initial intrusive investigation was recommended based on the information gathered by LCS during through review of a Phase I Environmental Site Assessment Report dated September 15, 2014, prepared by others. Through that report, the following recognized environmental conditions were identified warranting intrusive study at that time.

- Sanborn Fire Insurance map records depict (1) gasoline UST located on the property. The historic position of the UST places the vessel below the northeast portion of the facility constructed in 1951. Verbal information received from National Business Equipment and Supply includes the facilities historic use of (1) gasoline UST and pump island north of the Bradford Street parking lot entrance. The UST is reportedly abandoned in place according to the site contact.
- Sanborn Fire Insurance map records depict (4) gasoline USTs located along the ally that borders north side of the property. No other UST records have been received from the property owner, City of Albany, NYSDEC, or EPA.
- Prior commercial automotive repair and photo developing/ engraving activities were conducted at the property circa 1930's through 1960's.
- Abandoned photo developing chemicals and related engraving waste exists at the property in containers ranging in size from one pint to 75-gallons.

Subsequent to LCS review of the Phase I report LCS completed a Limited and Focused Subsurface Soil & Groundwater Investigation. The findings of that study were summarized within a report dated March 7, 2017. That study revealed the presence of multiple petroleum compounds above commonly-applied New York State Department of Environmental Conservation (NYSDEC) regulatory criteria in both soil and groundwater at one location (BH9/TPMW2). The observed contamination was located in the small loading dock area located on the southeast corner of the property. Due to the discovery of petroleum impact, the NYSDEC was notified and spill number 16-10703 was assigned to the site. Mr. Joshua Utberg has been assigned to the site as the spill investigator.

Buffalo. Rochester. Syracuse. Albany. Mid Hudson. New York City. Connecticut. Cleveland. Pittsburgh.  
Wilkes Barre. Harrisburg. Allentown. Delaware. Maryland. Washington, DC. Virginia. North Carolina.

A work plan for additional delineation was submitted to the NYSDEC on April 25, 2017. Mr. Utberg tentatively accepted the plan on April 26, 2017, with the condition that a well be reinstalled in the area of the former boring location (BH9) with identified petroleum impact and groundwater resampled.

### **Introduction**

The purpose of this intrusive study was to better assess the environmental quality of on-site soils and groundwater in the area of the loading dock due to the environmental concerns identified above. Soil samples were collected for stratigraphic characterization and field monitoring. Temporary groundwater monitoring wells (TPMWs) were installed within select test borings where groundwater was encountered. Select soil and groundwater samples were submitted for laboratory analysis to supplement field observations.

The work completed is generally consistent with LCS' April 26, 2017 proposal with the following exceptions(s). LCS had originally planned on installing five temporary groundwater monitoring wells and sampling six soil samples proximate to the loading dock, however, only four temporary groundwater monitoring wells were installed and eight soil samples were collected per Mr. Utberg's request.

The following is a summary of the methods and results of the investigation.

## **Methods of Investigation**

### **Soil**

Soil samples were collected on May 30, 2017, with a percussion and hydraulically driven drive system equipped with an approximate 2-inch diameter, approximate 48-inch long macro-core sampler. Soil samples were collected within each borehole continuously from the ground surface until a depth of between approximately 16.1 and 20.0 feet below the ground surface (ft. bgs). Any downhole equipment was decontaminated with an Alconox and tap water wash and tap water rinse between boreholes. The cutting shoes were decontaminated in a similar manner between collection of each sample.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method) and placed in separate sealable containers to allow any vapors to accumulate in the headspace. After several minutes, the container was opened slightly and total volatile organic compound (VOC) concentrations in air within the sample container were measured using a photoionization detector (PID). (The PID is designed to detect VOCs, such as those associated with petroleum.) Based on the field observations and/or screening results, soils were selected for analysis (see below).

### **Groundwater**

Temporary groundwater monitoring wells TPMW3 through TPMW6 were installed within boreholes BH10, BH12, BH14 and BH16, respectively. Generally, the bottoms of the wells were set between 14.96 and 17.6 ft. bgs. Each of the wells were constructed with one-inch diameter PVC screen and riser with a silica filter pack placed around the well screen. A bentonite seal was placed above the sand and the wells were covered with plastic caps, to prevent surface water from entering the wells. Refer to the attached subsurface logs/well construction details for well specific well construction details.

The groundwater samples from temporary groundwater monitoring wells TPMW3 through TPMW6 were collected on May 30, 2017. Prior to sample collection, each well was developed by removing at least three well volumes from each well. A new disposable dedicated PVC bailer was used for well development and sample collection activities.

### Sample Analysis

Following labeling of the laboratory-supplied sample containers, selected samples were placed on ice. The samples were then submitted, under standard chain-of-custody, to a New York State Department of Health (NYSDOH) approved laboratory for analysis in accordance with the United States Environmental Protection Agency (USEPA) SW-846 Methods as summarized below.

The following table summarizes the specific analytical testing performed and their respective sample locations.

Sample Location	Analytical Testing Performed	Recognized Environmental Condition
<b>Soil</b>		
BH9 (10-12 ft. bgs.)	TCL+CP-51 VOCs, TCL SVOCs, and RCRA Metals	Historic Operations
BH10 (10-12 ft. bgs.)	TCL+CP-51 VOCs	Proximate Historical Impact
BH11 (8-10 ft. bgs.)		
BH12 (12-14 ft. bgs.)		
BH13 (8-10 ft. bgs.)		
BH14 (16-18 ft. bgs.)		
BH15 (10-12 ft. bgs.)		
BH16 (14-16 ft. bgs.)		
BH17 (16-18 ft. bgs.)		
<b>Water</b>		
TPMW2	TCL+CP-51 VOCs, TCL SVOCs, and RCRA Metals	Historic Operations
TPMW3	TCL+CP-51 VOCs	Proximate Historical Impact
TPMW4		
TPMW5		
TPMW6		

ft. bgs = feet below ground surface

TCL+CP-51 VOCs = Target Compound and Commissioner Policy List volatile organic compounds via USEPA Test Method 8260

TCL SVOCs = Target Compound List semi-volatile organic compounds via USEPA Test Method 8270

RCRA Metals = Resource Conservation and Recovery Act Metals via USEPA Test Method 6010/7000

### Results of Field Investigation

Eight boreholes (BH10 through BH17) were completed in accessible areas of the subject property proximate to the environmental concerns. (See Figure 2.) A total of 72 soil samples were collected for geologic description. Fill material consisting of asphalt and gravel was noted within test borings BH10 through BH17 to a maximum depth of approximately 1.5 ft. bgs. Generally, the native soils encountered consisted of varying mixtures of sand to the bottom of the test borings. Apparent groundwater was encountered within test borings BH10 through BH16 between approximately 4.9 to 9.5 ft. bgs.

PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in 69 of the 72 soil samples collected. These elevated concentrations ranged from 0.1 parts per million (ppm) to 1,225 ppm (BH12, ~10-12 ft. bgs). Petroleum-type odors were detected in soil samples collected from test borings BH10 through BH17 between approximately 4.9 and 20.0 ft. bgs. In LCS' experience, the PID measurements and field observations (i.e., odors/staining) suggest some VOC impact proximate to the loading dock. LCS notes that this impact may be associated with historic tanks located proximate the property boundary.

Refer to the attached subsurface logs for soil classification for each sample interval, field observations and PID measurements.



### **Investigation Analytical Results**

The soil and groundwater samples collected and analyzed detected the following analytes. The respective concentrations as well as commonly applied regulatory guidance values are also listed for comparison. Analytes not detected are not shown.

**SOIL TESTING RESULTS**

**VOCs by USEPA SW-846 Method 8260**

Sample ID	BH9	BH10	BH11	BH12	BH13	BH14	BH15	BH16	BH17	CP-51 Soil Cleanup Levels	Part 375 (Unrestricted) Soil Cleanup Objectives	Part 375 (Residential) Soil Cleanup Objectives	Part 375 (Residential Restricted) Soil Cleanup Objectives	Part 375 (Commercial) Soil Cleanup Objectives	Part 375 (Industrial) Soil Cleanup Objectives
Date Sampled	2/15/17	5/30/17	5/30/17	5/30/17	5/30/17	5/30/17	5/30/17	5/30/17	5/30/17						
Sample Depth	6-8 ft. bgs	10-12 ft. bgs	8-10 ft. bgs	12-14 ft. bgs	8-10 ft. bgs	16-18 ft. bgs	10-12 ft. bgs	14-16 ft. bgs	16-18 ft. bgs						
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Acetone	<4,950	NA	NA	NA	NA	NA	NA	NA	NA	NL	50	100,000	100,000	500,000	1,000,000
Carbon Disulfide	<109	NA	NA	NA	NA	NA	NA	NA	NA	NL	NL	NL	NL	NL	NL
Cyclohexane	3,210	NA	NA	NA	NA	NA	NA	NA	NA	NL	NL	NL	NL	NL	NL
Methyl Cyclohexane	13,200	NA	NA	NA	NA	NA	NA	NA	NA	NL	NL	NL	NL	NL	NL
Methylene chloride	1,220 J	NA	NA	NA	NA	NA	NA	NA	NA	NL	50	51,000	100,000	500,000	1,000,000
2- Butanone	<2,310	NA	NA	NA	NA	NA	NA	NA	NA	NL	120	100,000	100,000	500,000	1,000,000
Chloroform	<113	NA	NA	NA	NA	NA	NA	NA	NA	NL	370	10,000	49,000	350,000	700,000
Benzene	208 J	259	208 J	<b>24,700</b>	<b>10,100</b>	3,740	35.8	44.6 J	31.0 J	60	60	2,900	4,800	44,000	89,000
Toluene	48,800	11,900	4,040	<b>573,00</b>	<b>291,000</b>	36,400	631	1,430	1,570	700	700	100,000	100,000	500,000	1,000,000
Ethylbenzene	21,500	4,570	2,840	<b>174,000</b>	<b>138,000</b>	<b>121,000</b>	84.3	335	467	1,000	1,000	30,000	41,000	390,000	780,000
m,p- Xylene	87,700	17,600	12,100	<b>680,000</b>	<b>521,000</b>	46,100	217	1,270	1,700	260*	260*	100,000*	100,000*	500,000*	1,000,000*
o-Xylene	34,300	7,340	5,540	<b>269,000</b>	<b>196,000</b>	18,100	59.9	459	779	260*	260*	100,000*	100,000*	500,000*	1,000,000*
Isopropylbenzene	2,940 J	622	648	16,700	14,100	1,390	<6.37	23.9 J	34.4 J	2,300	NL	NL	NL	NL	NL
n-Propylbenzene	10,000	2,220	2,550	60,500	49,600	5,020	8.23 J	92.3	102	3,900	3,900	100,000	100,000	500,000	1,000,000
Sec- Butylbenzene	1,280	270	421	5,420	5,210	626 J	<5.27	<9.58	18.5 J	11,000	11,000	100,000	100,000	500,000	1,000,000
Tert- Butylbenzene	<102	<38.8	<64.7	349 J	321 J	<193	<5.4	<9.82	<11.3	5,900	5,900	100,000	100,000	500,000	1,000,000
p- Isopropyltoluene	2,290	139 J	266 J	2,250	2,260	255 J	<5.36	<9.73	19.3 J	10,000	NL	NL	NL	NL	NL
1,2,4- Trimethylbenzene	<b>64,200</b>	13,500	20,100	<b>411,000</b>	<b>331,000</b>	29,200	28.1	589	972	3,600	3,600	47,000	52,000	190,000	380,000
1,3,5- Trimethylbenzene	19,600	4,190	6,510	<b>128,000</b>	<b>95,600</b>	9,550	7.21 J	153	275	8,400	8,400	47,000	52,000	190,000	380,000
n-Butylbenzene	3,640	740	1,260	16,600	14,900	1,630	<6.76	24.9 J	34.6 J	12,000	12,000	100,000	100,000	500,000	1,000,000
Naphthalene	10,200	2,270	3,830	54,700	48,400	5,360	27.6 J	305	527	12,000	12,000	100,000	100,000	500,000	1,000,000

µg/kg = micrograms per kilogram  
 ft. bgs = feet below ground surface  
 NL = Not Listed  
 NA = Not Analyzed

J = Indicates an estimated value

Part 375 Soil Cleanup Objectives = New York State Department of Environmental Conservation 6 NYCRR Part 375 Environmental Remediation Programs, December 14, 2006 (375-6.8, Soil Cleanup Objective Tables)

\* = Based on the sum of the Total Xylenes.

CP-51 Soil Cleanup Levels = CP-51 Soil Cleanup Guidance October 21, 2010 (Table 3, Soil Cleanup Levels for Gasoline Contaminated Soil)

= Analyte that is detected above the CP-51 and Part 375 Unrestricted Soil Cleanup Objectives.

**Bold** = Analyte detected above Part 375 Residential Soil Cleanup Objectives.

Underlined = Analyte that is detected above Part 375 Residential Restricted Soil Cleanup Objectives.

*Italics* = Analyte that is detected above Part 375 (Commercial Analyte that is detected above Part) Soil Cleanup Objectives.

~~Strike through~~ = Analyte that is detected above Part 375 Residential Restricted Soil Cleanup Objectives.

**VOC by USEPA-846 Method 8260**

Sample ID	TPMW2	TPMW3	TPMW4	TPMW5	TPMW6	NYSDEC Groundwater Criteria (Class GA)
Date Sampled	2/15/17	5/30/17	5/30/17	5/30/17	5/30/17	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Cyclohexane	324	NA	NA	NA	NA	NL
Methyl Cyclohexane	485	NA	NA	NA	NA	NL
N-Butylbenzene	<72.2	31.4	21.5 J	23.2 J	<7.22	5
Isopropylbenzene	150 J	118	106	74.7	38.2	5
n-Propylbenzene	385	287	272	193	73.1	5
Benzene	223	165	377	839	269	1
Toluene	11,200	7,170	7,410	3,480	3,690	5
P-Isopropyltoluene	<70.0	7.68 J	<17.5	<17.5	<7	NL
Sec-Butylbenzene	<73.0	15.7 J	<18.2	<18.2	<7.3	5
1,2,4- Trimethylbenzene	2,430	2,050	1,980	1,130	584	5
1,3,5- Trimethylbenzene	788	558	542	334	141	5
Ethylbenzene	2,400	2,530	1,830	1,110	742	5
Naphthalene	491 J	425	431	175 J	112	10
m,p- Xylene	8,570	9,680	6,160	3,560	2,250	5
o-Xylene	3,400	3,580	3,400	1,350	834	5

µg/L = micrograms per liter

NL = Not Listed

NA = Not Analyzed

J = Indicates an estimated value.

NYSDEC Groundwater Criteria (Class GA) = 6 NYCRR Part 703 (June 1998 and April 2000 Addendum)

█ = Analyte detected above the NYSDEC Groundwater Criteria.

### Conclusions

The purpose of this study was delineate the extent of impact identified in the March 7, 2017, Limited and Focused Subsurface Soil & Groundwater Investigation Report specifically, VOC impact proximate to BH9/TPMW2. Select soil and groundwater samples were collected from the area of impact.

#### Intrusive Investigation

##### Field Observations

PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in 69 of the 72 soil samples collected. These elevated concentrations ranged from 0.1 parts per million (ppm) to 1,225 ppm (BH12, ~10-12 ft. bgs). Petroleum-type odors and staining were detected in soil samples collected from test borings BH10 through BH17 between approximately 4.9 and 20.0 ft. bgs. In LCS' experience, the PID measurements and field observations (i.e., odors/staining) suggest some VOC impact proximate to the loading dock. LCS notes that this impact may be associated with historic tanks located proximate the property boundary.

## Laboratory Test Results

### VOLATILE ORGANIC COMPOUNDS

Eleven VOCs were detected at concentrations above commonly applied criteria in the samples collected and submitted for VOCs analysis during this study. Analytes with exceedances were identified in BH10, BH11, BH12, BH13, BH14, BH16, and BH17. The following VOCs were detected in these samples at concentrations above CP-51 criteria:

- Benzene, Toluene, Ethylbenzene, m,p- Xylene, o-Xylene, Isopropylbenzene, n-Propylbenzene, 1,2,4- Trimethylbenzene, 1,3,5- Trimethylbenzene, n-Butylbenzene, Naphthalene

Twelve VOCs were detected at concentrations above the NYSDEC Groundwater Criteria (Class GA) in the groundwater samples collected and submitted for VOCs analysis from TPMW3 through TPMW6 during this study. The following VOCs were detected in this sample at concentrations above the NYSDEC Groundwater Criteria (Class GA):

- n-butylbenzene, isopropylbenzene, n-propylbenzene, benzene, toluene, sec-butylbenzene, 1,2,4- trimethylbenzene, 1,3,5- trimethylbenzene, ethylbenzene, naphthalene, m,p- xylene, o-xylene

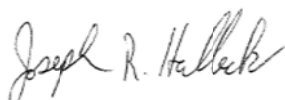
### **Recommendations**

A copy of this report should be provided to the NYSDEC for their review. Based on their review the NYSDEC will make a determination to the extent of additional work they will require, if any.

Thank you for allowing LCS to service your environmental needs. If you have any questions or require additional information, please do not hesitate to call our office.

Sincerely,

Reviewed by:



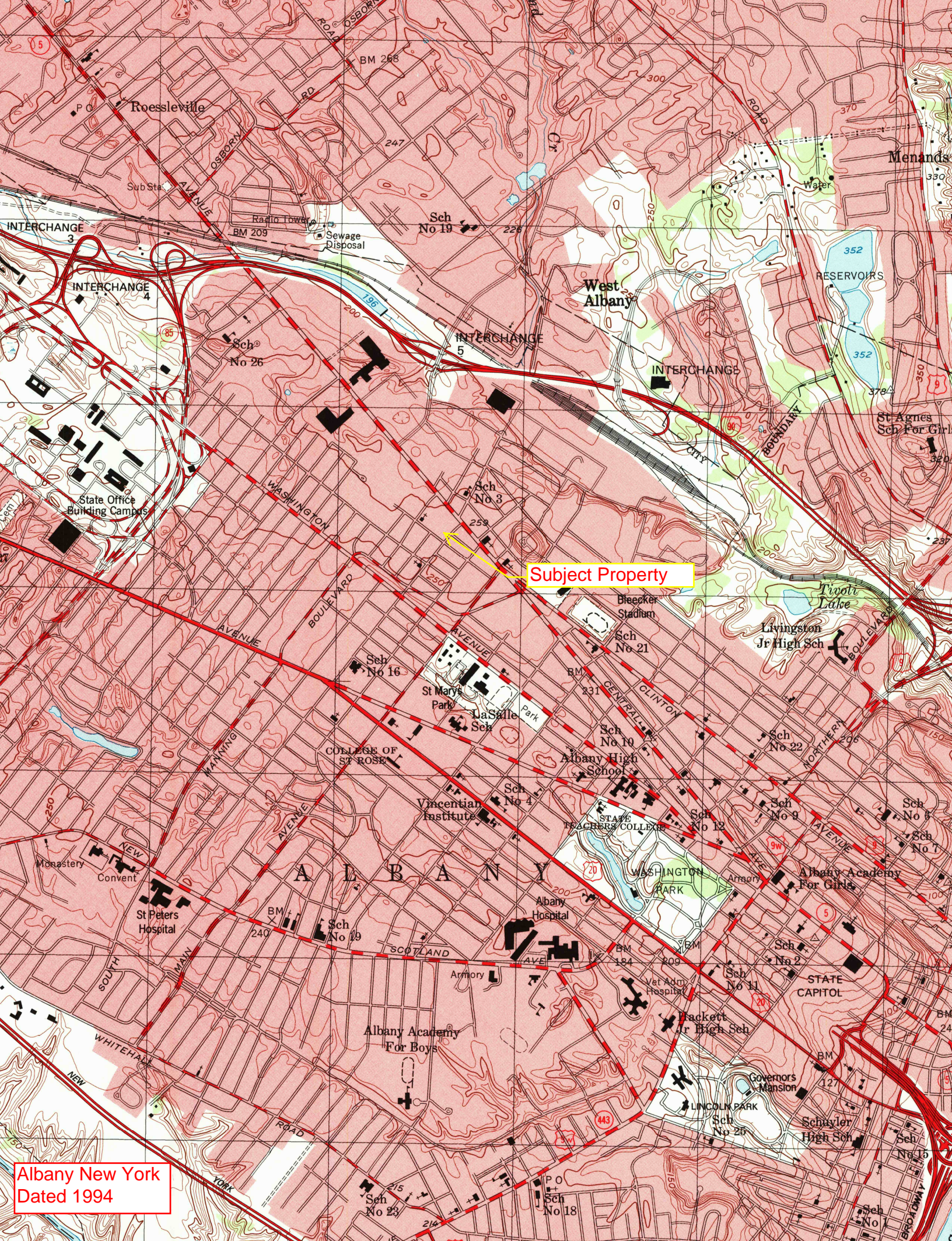
Joseph R. Halleck  
Environmental Analyst/ Project Manager



Douglas B. Reid  
Sr. VP, Environmental Services

**SITE LOCATION MAP**



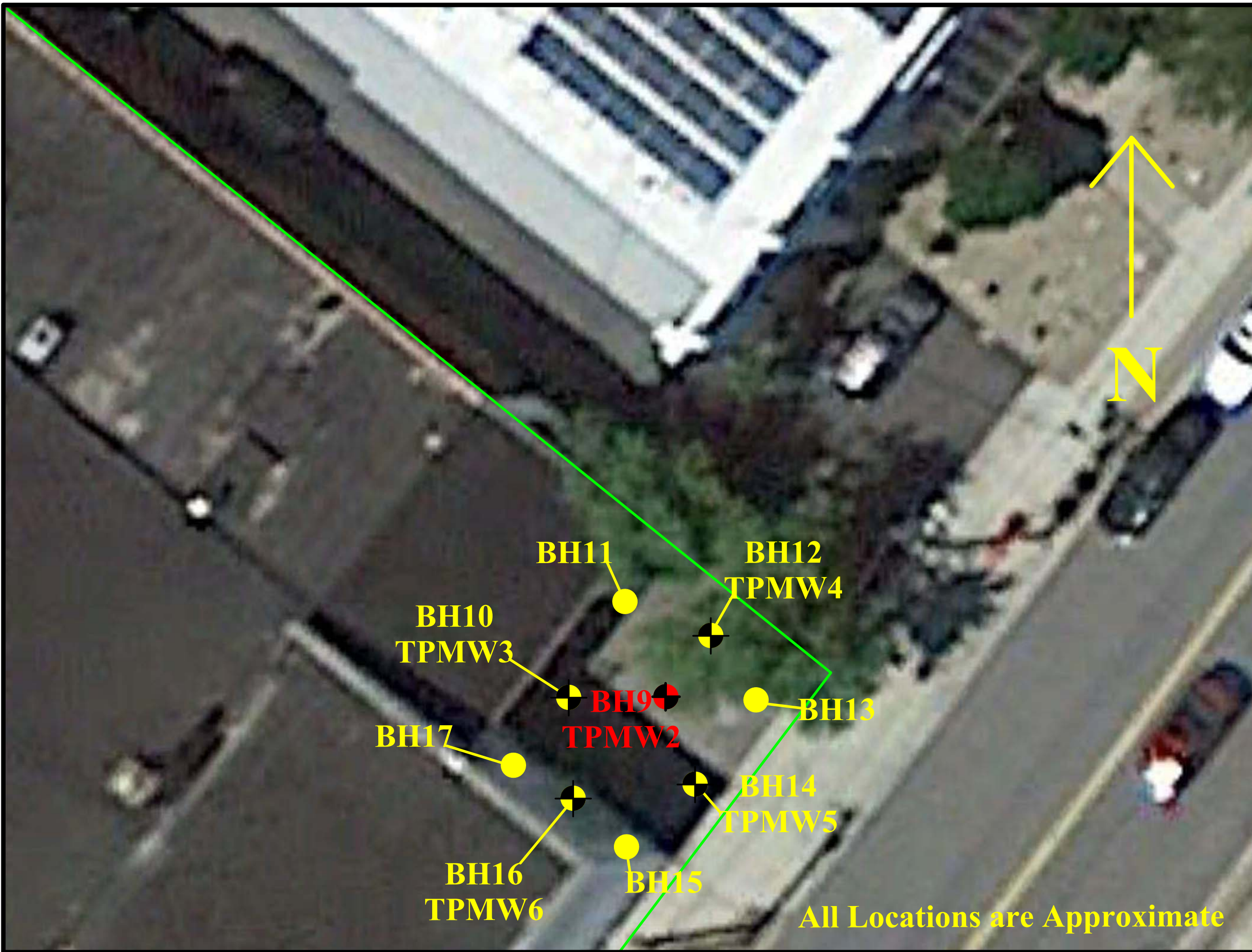


Subject Property

Albany New York  
Dated 1994

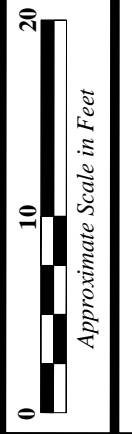


**SUBSURFACE INVESTIGATION MAP**



Drawn by: JRH

Checked by: DBR



LCS Project # 16H6938.22

FIGURE 2- SITE INVESTIGATION PLAN  
226 North Allen Street  
Albany, New York



All Locations are Approximate



## **SUBSURFACE LOGS**















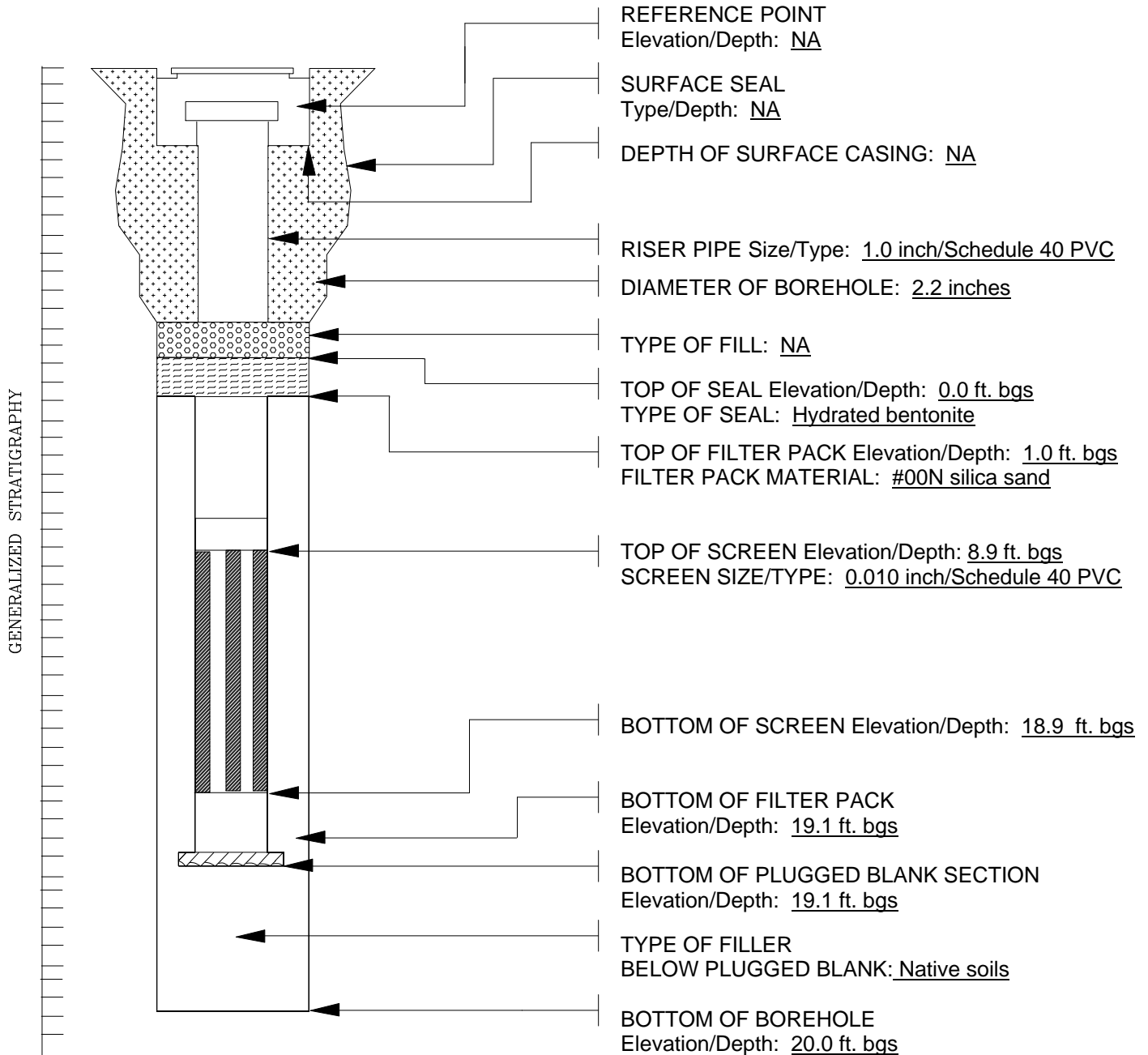






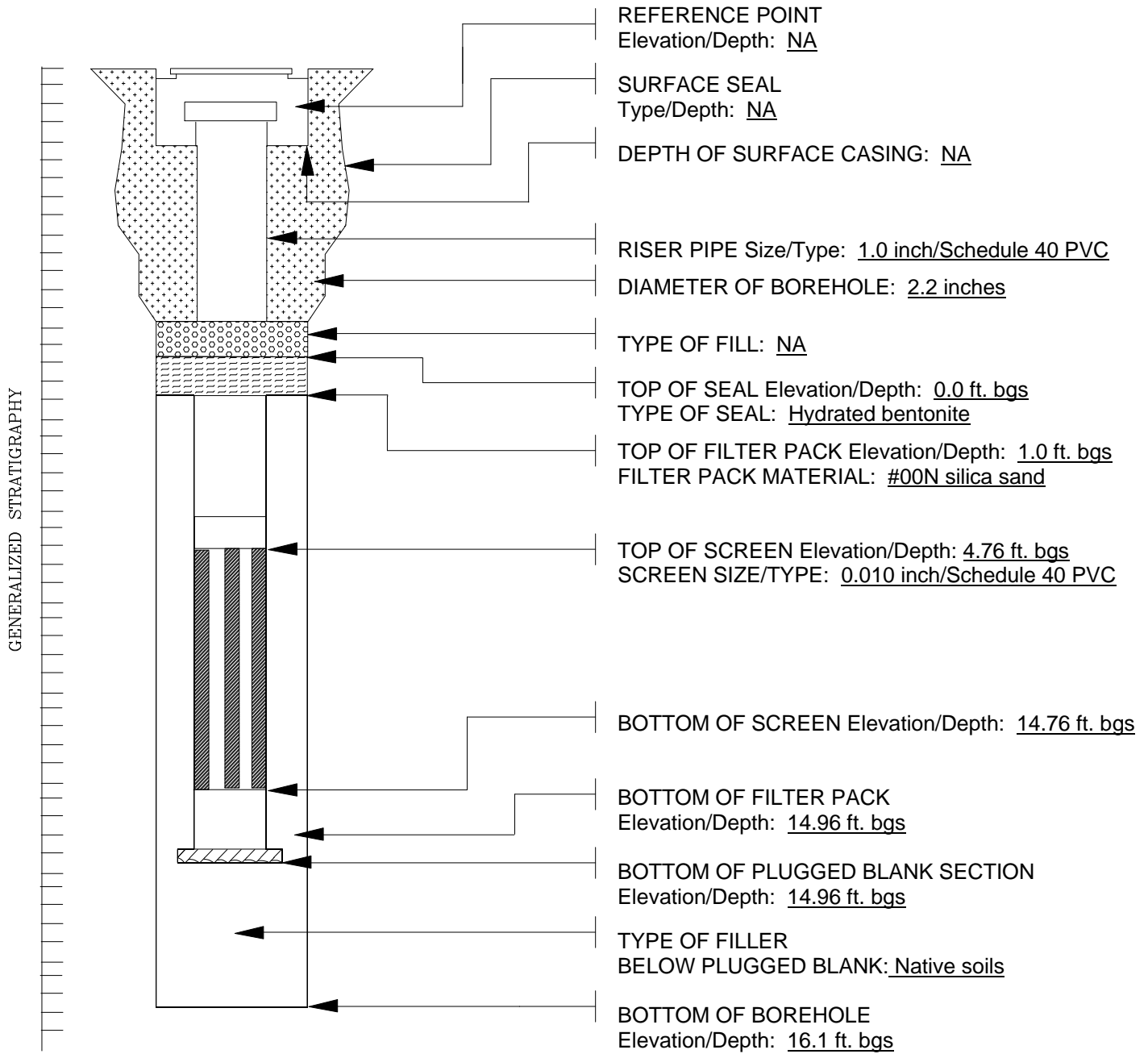
## **WELL CONSTRUCTION DETAILS**

PROJECT/LOCATION: 226 North Allen Street, Albany, New York PROJECT No. 16H6938.22  
 CLIENT: SEFCU WELL No. TPMW2  
 DATE COMPLETED: 2/14/2017 SUPERVISED BY: AT



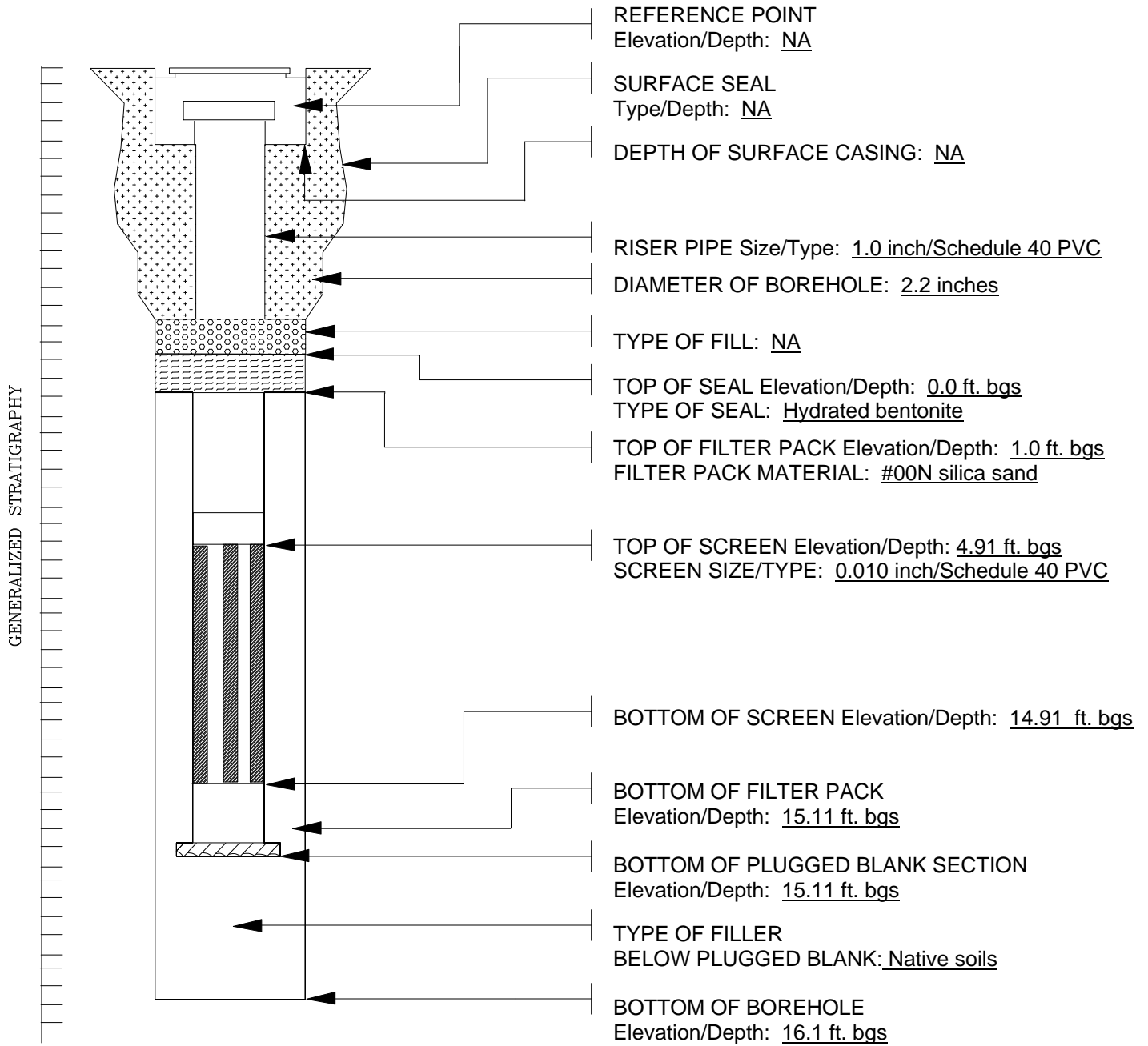
NOTES

PROJECT/LOCATION: 226 North Allen Street, Albany, New York PROJECT No. 16H6938.22  
 CLIENT: SEFCU WELL No. TPMW3  
 DATE COMPLETED: 2/14/2017 SUPERVISED BY: AT



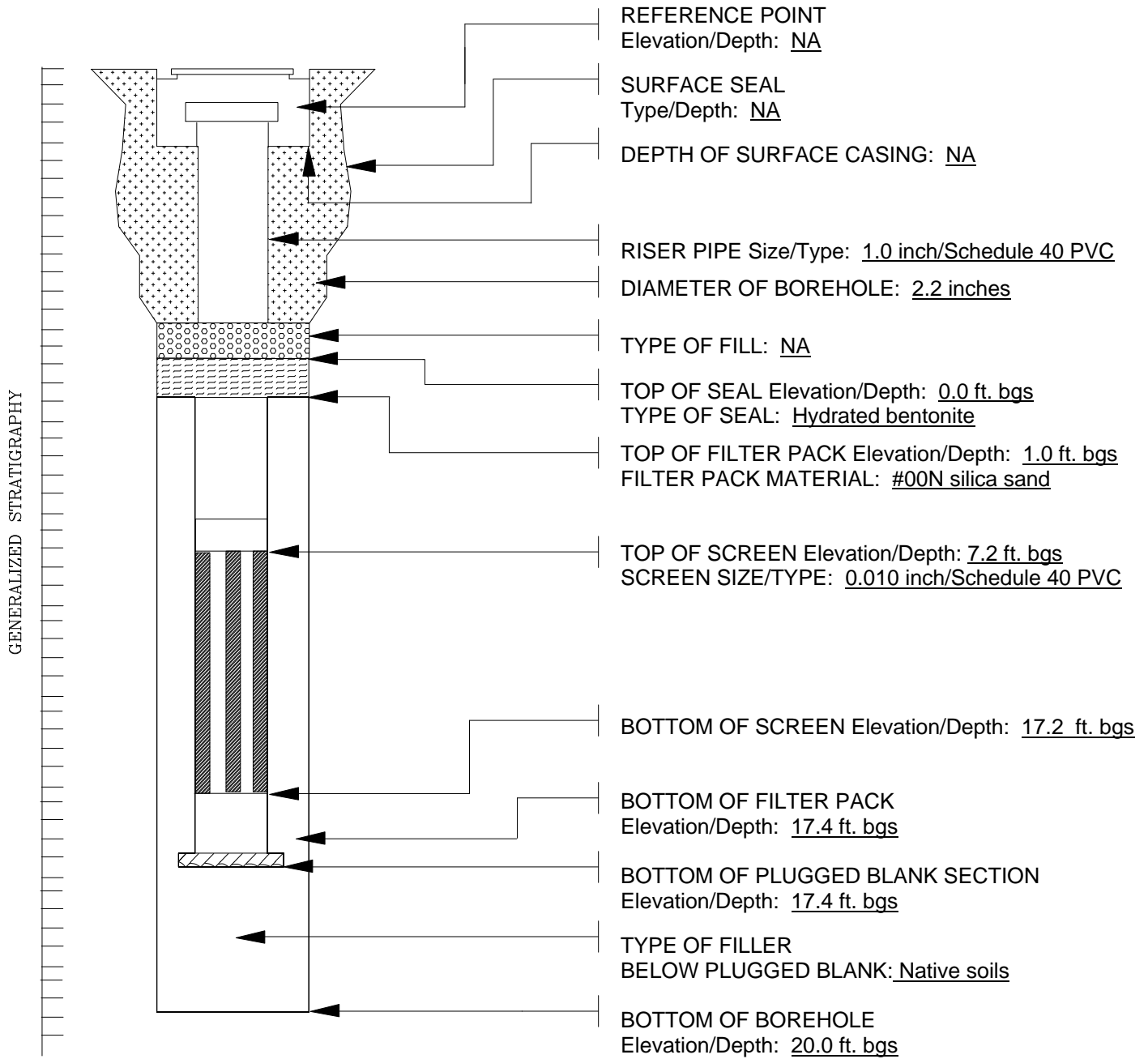
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PROJECT/LOCATION: 226 North Allen Street, Albany, New York PROJECT No. 16H6938.22  
 CLIENT: SEFCU WELL No. TPMW4  
 DATE COMPLETED: 2/14/2017 SUPERVISED BY: AT



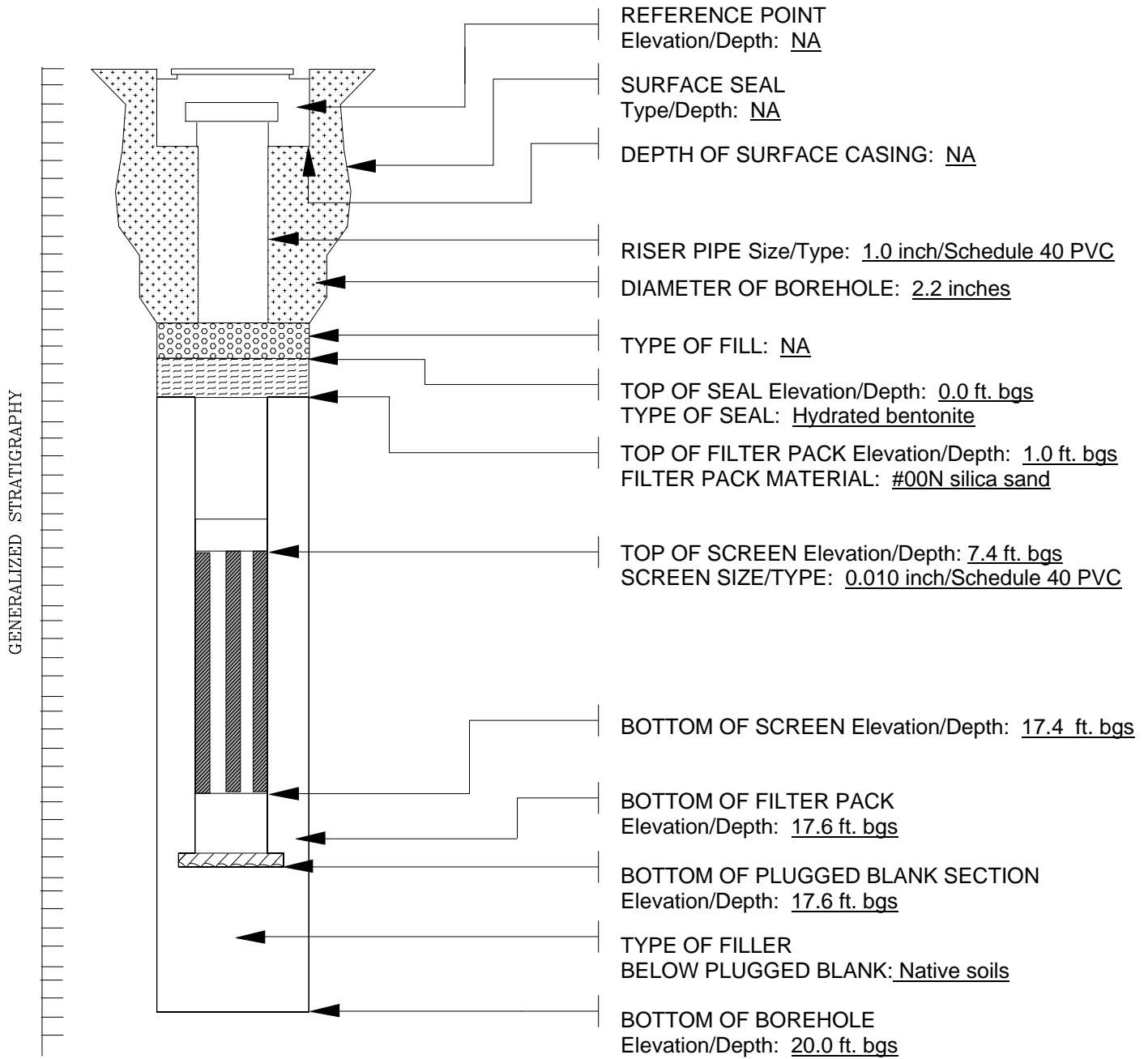
NOTES

PROJECT/LOCATION: <u>226 North Allen Street, Albany, New York</u>	PROJECT No. <u>16H6938.22</u>
CLIENT: <u>SEFCU</u>	WELL No. <u>TPMW5</u>
DATE COMPLETED: <u>2/14/2017</u>	SUPERVISED BY: <u>AT</u>



NOTES

PROJECT/LOCATION: <u>226 North Allen Street, Albany, New York</u>	PROJECT No. <u>16H6938.22</u>
CLIENT: <u>SEFCU</u>	WELL No. <u>TPMW6</u>
DATE COMPLETED: <u>2/14/2017</u>	SUPERVISED BY: <u>AT</u>



NOTES



## **ANALYTICAL RESULTS**

## Lender Consulting Services - NY

Sample Delivery Group: L913566  
Samples Received: 06/03/2017  
Project Number: 16H6938.22  
Description: 226 N Allen St  
Site: LCS  
Report To: Mr. Doug Reid  
40 La Riviere Dr., Ste. 120  
Buffalo, NY 14202










Entire Report Reviewed By:



T. Alan Harvill  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## BH10 10-12 L913566-01 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG986803	1	06/08/17 10:02	06/08/17 10:22	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	154	05/30/17 12:30	06/12/17 13:04	JHH

Collected by  
Anya True

Collected date/time  
05/30/17 12:30

Received date/time  
06/03/17 08:45

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## BH11 8-10 L913566-02 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG986661	1	06/07/17 13:31	06/07/17 13:47	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	278	05/30/17 13:30	06/12/17 13:17	JHH

Collected by  
Anya True

Collected date/time  
05/30/17 13:30

Received date/time  
06/03/17 08:45

## BH13 8-10 L913566-03 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG988393	1	06/12/17 17:11	06/12/17 17:19	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	370	05/30/17 14:00	06/12/17 13:30	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	7400	05/30/17 14:00	06/12/17 15:02	JHH

Collected by  
Anya True

Collected date/time  
05/30/17 14:00

Received date/time  
06/03/17 08:45

## BH12 12-14 L913566-04 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG986661	1	06/07/17 13:31	06/07/17 13:47	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	445	05/30/17 14:00	06/12/17 13:43	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	8900	05/30/17 14:00	06/12/17 15:16	JHH

Collected by  
Anya True

Collected date/time  
05/30/17 14:00

Received date/time  
06/03/17 08:45

## BH14 16-18 L913566-05 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG986659	1	06/07/17 13:51	06/07/17 14:01	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	780	05/30/17 14:52	06/12/17 13:56	JHH

Collected by  
Anya True

Collected date/time  
05/30/17 14:52

Received date/time  
06/03/17 08:45

## BH15 10-12 L913566-06 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG988393	1	06/12/17 17:11	06/12/17 17:19	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	21.25	05/30/17 15:03	06/12/17 14:49	JHH

Collected by  
Anya True

Collected date/time  
05/30/17 15:03

Received date/time  
06/03/17 08:45

## TPMW-3 L913566-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987217	100	06/09/17 16:56	06/09/17 16:56	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987217	20	06/08/17 19:24	06/08/17 19:24	JAH

Collected by  
Anya True

Collected date/time  
05/30/17 12:45

Received date/time  
06/03/17 08:45

# SAMPLE SUMMARY



## TPMW-4 L913566-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Anya True				Collected date/time 05/30/17 13:00	Received date/time 06/03/17 08:45
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987217	50	06/09/17 17:11	06/09/17 17:11	BMB

1 Cp

2 Tc

## TPMW-5 L913566-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Anya True				Collected date/time 05/30/17 00:00	Received date/time 06/03/17 08:45
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987217	50	06/09/17 17:27	06/09/17 17:27	BMB

3 Ss

4 Cn

5 Sr

## TPMW-6 L913566-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Anya True				Collected date/time 05/30/17 00:00	Received date/time 06/03/17 08:45
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987217	20	06/09/17 17:42	06/09/17 17:42	BMB

6 Qc

7 Gl

8 Al

## BH16 14-16 L913566-11 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Anya True				Collected date/time 05/30/17 00:00	Received date/time 06/03/17 08:45
Total Solids by Method 2540 G-2011	WG986659	1	06/07/17 13:51	06/07/17 14:01	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	39.5	05/30/17 00:00	06/12/17 14:23	JHH

9 Sc

## BH17 14-16 L913566-12 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Anya True				Collected date/time 05/30/17 00:00	Received date/time 06/03/17 08:45
Total Solids by Method 2540 G-2011	WG988393	1	06/12/17 17:11	06/12/17 17:19	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG987524	50.5	05/30/17 00:00	06/12/17 14:36	JHH



All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill  
 Technical Service Representative

Sample Handling and Receiving

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VOC pH outside of method requirement.

<u>ESC Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L913566-09</a>	<a href="#">TPMW-5</a>	8260C
<a href="#">L913566-10</a>	<a href="#">TPMW-6</a>	8260C

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.7		1	06/08/2017 10:22	<a href="#">WG986803</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Benzene	259		50.9	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
n-Butylbenzene	740		48.6	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
sec-Butylbenzene	270		38.0	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
tert-Butylbenzene	U		38.8	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
Ethylbenzene	4570		55.9	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
Isopropylbenzene	622		45.8	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
p-Isopropyltoluene	139	J	38.4	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
Methyl tert-butyl ether	U		39.9	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
Naphthalene	2270		189	943	154	06/12/2017 13:04	<a href="#">WG987524</a>
n-Propylbenzene	2220		38.8	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
1,2,4-Trimethylbenzene	13500		39.8	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
1,3,5-Trimethylbenzene	4190		50.2	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
Toluene	11900		81.8	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
o-Xylene	7340		69.0	189	154	06/12/2017 13:04	<a href="#">WG987524</a>
m&p-Xylenes	17600		62.6	377	154	06/12/2017 13:04	<a href="#">WG987524</a>
(S) Toluene-d8	110			80.0-120		06/12/2017 13:04	<a href="#">WG987524</a>
(S) Dibromofluoromethane	103			74.0-131		06/12/2017 13:04	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	108			80.0-120		06/12/2017 13:04	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	98.4			64.0-132		06/12/2017 13:04	<a href="#">WG987524</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	06/07/2017 13:47	<a href="#">WG986661</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Benzene	208	J	84.9	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
n-Butylbenzene	1260		81.0	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
sec-Butylbenzene	421		63.2	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
tert-Butylbenzene	U		64.7	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
Ethylbenzene	2840		93.3	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
Isopropylbenzene	648		76.4	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
p-Isopropyltoluene	266	J	64.1	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
Methyl tert-butyl ether	U		66.6	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
Naphthalene	3830		314	1570	278	06/12/2017 13:17	<a href="#">WG987524</a>
n-Propylbenzene	2550		64.7	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
1,2,4-Trimethylbenzene	20100		66.2	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
1,3,5-Trimethylbenzene	6510		83.5	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
Toluene	4040		137	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
o-Xylene	5540		115	314	278	06/12/2017 13:17	<a href="#">WG987524</a>
m&p-Xylenes	12100		104	628	278	06/12/2017 13:17	<a href="#">WG987524</a>
(S) Toluene-d8	112			80.0-120		06/12/2017 13:17	<a href="#">WG987524</a>
(S) Dibromofluoromethane	104			74.0-131		06/12/2017 13:17	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	109			80.0-120		06/12/2017 13:17	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	100			64.0-132		06/12/2017 13:17	<a href="#">WG987524</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.2		1	06/12/2017 17:19	<a href="#">WG988393</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Benzene	24700		125	462	370	06/12/2017 13:30	<a href="#">WG987524</a>
n-Butylbenzene	16600		119	462	370	06/12/2017 13:30	<a href="#">WG987524</a>
sec-Butylbenzene	5420		92.8	462	370	06/12/2017 13:30	<a href="#">WG987524</a>
tert-Butylbenzene	349	J	95.1	462	370	06/12/2017 13:30	<a href="#">WG987524</a>
Ethylbenzene	174000		2740	9230	7400	06/12/2017 15:02	<a href="#">WG987524</a>
Isopropylbenzene	16700		112	462	370	06/12/2017 13:30	<a href="#">WG987524</a>
p-Isopropyltoluene	2250		94.2	462	370	06/12/2017 13:30	<a href="#">WG987524</a>
Methyl tert-butyl ether	U		97.8	462	370	06/12/2017 13:30	<a href="#">WG987524</a>
Naphthalene	54700		462	2310	370	06/12/2017 13:30	<a href="#">WG987524</a>
n-Propylbenzene	60500		95.1	462	370	06/12/2017 13:30	<a href="#">WG987524</a>
1,2,4-Trimethylbenzene	411000		1950	9230	7400	06/12/2017 15:02	<a href="#">WG987524</a>
1,3,5-Trimethylbenzene	128000		2460	9230	7400	06/12/2017 15:02	<a href="#">WG987524</a>
Toluene	573000		4000	9230	7400	06/12/2017 15:02	<a href="#">WG987524</a>
o-Xylene	269000		3380	9230	7400	06/12/2017 15:02	<a href="#">WG987524</a>
m&p-Xylenes	680000		3070	18500	7400	06/12/2017 15:02	<a href="#">WG987524</a>
(S) Toluene-d8	102			80.0-120		06/12/2017 13:30	<a href="#">WG987524</a>
(S) Toluene-d8	109			80.0-120		06/12/2017 15:02	<a href="#">WG987524</a>
(S) Dibromofluoromethane	93.7			74.0-131		06/12/2017 13:30	<a href="#">WG987524</a>
(S) Dibromofluoromethane	102			74.0-131		06/12/2017 15:02	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	94.3			80.0-120		06/12/2017 13:30	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	105			80.0-120		06/12/2017 15:02	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	83.8			64.0-132		06/12/2017 13:30	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	98.9			64.0-132		06/12/2017 15:02	<a href="#">WG987524</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.4		1	06/07/2017 13:47	<a href="#">WG986661</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Benzene	10100		149	554	445	06/12/2017 13:43	<a href="#">WG987524</a>
n-Butylbenzene	14900		143	554	445	06/12/2017 13:43	<a href="#">WG987524</a>
sec-Butylbenzene	5210		111	554	445	06/12/2017 13:43	<a href="#">WG987524</a>
tert-Butylbenzene	321	J	114	554	445	06/12/2017 13:43	<a href="#">WG987524</a>
Ethylbenzene	138000		3290	11100	8900	06/12/2017 15:16	<a href="#">WG987524</a>
Isopropylbenzene	14100		134	554	445	06/12/2017 13:43	<a href="#">WG987524</a>
p-Isopropyltoluene	2260		113	554	445	06/12/2017 13:43	<a href="#">WG987524</a>
Methyl tert-butyl ether	U		117	554	445	06/12/2017 13:43	<a href="#">WG987524</a>
Naphthalene	48400		554	2770	445	06/12/2017 13:43	<a href="#">WG987524</a>
n-Propylbenzene	49600		114	554	445	06/12/2017 13:43	<a href="#">WG987524</a>
1,2,4-Trimethylbenzene	331000		2340	11100	8900	06/12/2017 15:16	<a href="#">WG987524</a>
1,3,5-Trimethylbenzene	95600		147	554	445	06/12/2017 13:43	<a href="#">WG987524</a>
Toluene	291000		4800	11100	8900	06/12/2017 15:16	<a href="#">WG987524</a>
o-Xylene	196000		4060	11100	8900	06/12/2017 15:16	<a href="#">WG987524</a>
m&p-Xylenes	521000		3670	22200	8900	06/12/2017 15:16	<a href="#">WG987524</a>
(S) Toluene-d8	110			80.0-120		06/12/2017 15:16	<a href="#">WG987524</a>
(S) Toluene-d8	104			80.0-120		06/12/2017 13:43	<a href="#">WG987524</a>
(S) Dibromofluoromethane	103			74.0-131		06/12/2017 15:16	<a href="#">WG987524</a>
(S) Dibromofluoromethane	91.4			74.0-131		06/12/2017 13:43	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	101			80.0-120		06/12/2017 13:43	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	105			80.0-120		06/12/2017 15:16	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	83.9			64.0-132		06/12/2017 13:43	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	99.0			64.0-132		06/12/2017 15:16	<a href="#">WG987524</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.4		1	06/07/2017 14:01	<a href="#">WG986659</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Benzene	3740		253	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
n-Butylbenzene	1630		241	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
sec-Butylbenzene	626	J	188	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
tert-Butylbenzene	U		193	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
Ethylbenzene	12100		278	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
Isopropylbenzene	1390		228	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
p-Isopropyltoluene	255	J	191	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
Methyl tert-butyl ether	U		198	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
Naphthalene	5360		936	4680	780	06/12/2017 13:56	<a href="#">WG987524</a>
n-Propylbenzene	5020		193	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
1,2,4-Trimethylbenzene	29200		197	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
1,3,5-Trimethylbenzene	9550		248	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
Toluene	36400		405	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
o-Xylene	18100		342	936	780	06/12/2017 13:56	<a href="#">WG987524</a>
m&p-Xylenes	46100		311	1870	780	06/12/2017 13:56	<a href="#">WG987524</a>
(S) Toluene-d8	108			80.0-120		06/12/2017 13:56	<a href="#">WG987524</a>
(S) Dibromofluoromethane	101			74.0-131		06/12/2017 13:56	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	108			80.0-120		06/12/2017 13:56	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	100			64.0-132		06/12/2017 13:56	<a href="#">WG987524</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.0		1	06/12/2017 17:19	<a href="#">WG988393</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Benzene	35.8		7.08	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
n-Butylbenzene	U		6.76	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
sec-Butylbenzene	U		5.27	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
tert-Butylbenzene	U		5.40	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
Ethylbenzene	84.3		7.79	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
Isopropylbenzene	U		6.37	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
p-Isopropyltoluene	U		5.36	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
Methyl tert-butyl ether	U		5.55	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
Naphthalene	27.6	J	26.2	131	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
n-Propylbenzene	8.23	J	5.40	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
1,2,4-Trimethylbenzene	28.1		5.53	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
1,3,5-Trimethylbenzene	7.21	J	6.97	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
Toluene	631		11.4	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
o-Xylene	59.9		9.60	26.2	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
m&p-Xylenes	217		8.71	52.4	21.25	06/12/2017 14:49	<a href="#">WG987524</a>
(S) Toluene-d8	108			80.0-120		06/12/2017 14:49	<a href="#">WG987524</a>
(S) Dibromofluoromethane	101			74.0-131		06/12/2017 14:49	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		06/12/2017 14:49	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	98.6			64.0-132		06/12/2017 14:49	<a href="#">WG987524</a>

Sample Narrative:

8260C L913566-06 WG987524: Target compounds too high to run at a lower dilution.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	165		6.62	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
n-Butylbenzene	31.4		7.22	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
sec-Butylbenzene	15.7	J	7.30	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
tert-Butylbenzene	U		7.98	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
Ethylbenzene	2530		7.68	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
Isopropylbenzene	118		6.52	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
p-Isopropyltoluene	7.68	J	7.00	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
Methyl tert-butyl ether	U		7.34	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
Naphthalene	425		20.0	100	20	06/08/2017 19:24	<a href="#">WG987217</a>
n-Propylbenzene	287		6.98	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
1,2,4-Trimethylbenzene	2050		7.46	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
1,3,5-Trimethylbenzene	558		7.74	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
Toluene	7170		41.2	100	100	06/09/2017 16:56	<a href="#">WG987217</a>
o-Xylene	3580		6.82	20.0	20	06/08/2017 19:24	<a href="#">WG987217</a>
m&p-Xylenes	9680		71.9	200	100	06/09/2017 16:56	<a href="#">WG987217</a>
(S) Toluene-d8	101			80.0-120		06/08/2017 19:24	<a href="#">WG987217</a>
(S) Toluene-d8	103			80.0-120		06/09/2017 16:56	<a href="#">WG987217</a>
(S) Dibromofluoromethane	102			76.0-123		06/09/2017 16:56	<a href="#">WG987217</a>
(S) Dibromofluoromethane	102			76.0-123		06/08/2017 19:24	<a href="#">WG987217</a>
(S) a,a,a-Trifluorotoluene	103			80.0-120		06/09/2017 16:56	<a href="#">WG987217</a>
(S) a,a,a-Trifluorotoluene	98.5			80.0-120		06/08/2017 19:24	<a href="#">WG987217</a>
(S) 4-Bromofluorobenzene	113			80.0-120		06/09/2017 16:56	<a href="#">WG987217</a>
(S) 4-Bromofluorobenzene	99.0			80.0-120		06/08/2017 19:24	<a href="#">WG987217</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	377		16.6	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
n-Butylbenzene	21.5	J	18.0	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
sec-Butylbenzene	U		18.2	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
tert-Butylbenzene	U		20.0	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
Ethylbenzene	1830		19.2	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
Isopropylbenzene	106		16.3	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
p-Isopropyltoluene	U		17.5	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
Methyl tert-butyl ether	U		18.4	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
Naphthalene	431		50.0	250	50	06/09/2017 17:11	<a href="#">WG987217</a>
n-Propylbenzene	272		17.4	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
1,2,4-Trimethylbenzene	1980		18.6	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
1,3,5-Trimethylbenzene	542		19.4	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
Toluene	7410		20.6	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
o-Xylene	2400		17.0	50.0	50	06/09/2017 17:11	<a href="#">WG987217</a>
m&p-Xylenes	6160		36.0	100	50	06/09/2017 17:11	<a href="#">WG987217</a>
(S) Toluene-d8	103			80.0-120		06/09/2017 17:11	<a href="#">WG987217</a>
(S) Dibromofluoromethane	104			76.0-123		06/09/2017 17:11	<a href="#">WG987217</a>
(S) a,a,a-Trifluorotoluene	103			80.0-120		06/09/2017 17:11	<a href="#">WG987217</a>
(S) 4-Bromofluorobenzene	111			80.0-120		06/09/2017 17:11	<a href="#">WG987217</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	839		16.6	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
n-Butylbenzene	23.2	J	18.0	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
sec-Butylbenzene	U		18.2	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
tert-Butylbenzene	U		20.0	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
Ethylbenzene	1110		19.2	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
Isopropylbenzene	74.7		16.3	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
p-Isopropyltoluene	U		17.5	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
Methyl tert-butyl ether	U		18.4	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
Naphthalene	175	J	50.0	250	50	06/09/2017 17:27	<a href="#">WG987217</a>
n-Propylbenzene	193		17.4	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
1,2,4-Trimethylbenzene	1130		18.6	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
1,3,5-Trimethylbenzene	334		19.4	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
Toluene	3480		20.6	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
o-Xylene	1350		17.0	50.0	50	06/09/2017 17:27	<a href="#">WG987217</a>
m&p-Xylenes	3560		36.0	100	50	06/09/2017 17:27	<a href="#">WG987217</a>
(S) Toluene-d8	103			80.0-120		06/09/2017 17:27	<a href="#">WG987217</a>
(S) Dibromofluoromethane	106			76.0-123		06/09/2017 17:27	<a href="#">WG987217</a>
(S) a,a,a-Trifluorotoluene	103			80.0-120		06/09/2017 17:27	<a href="#">WG987217</a>
(S) 4-Bromofluorobenzene	112			80.0-120		06/09/2017 17:27	<a href="#">WG987217</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	269		6.62	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
n-Butylbenzene	U		7.22	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
sec-Butylbenzene	U		7.30	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
tert-Butylbenzene	U		7.98	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
Ethylbenzene	742		7.68	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
Isopropylbenzene	38.2		6.52	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
p-Isopropyltoluene	U		7.00	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
Methyl tert-butyl ether	U		7.34	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
Naphthalene	112		20.0	100	20	06/09/2017 17:42	<a href="#">WG987217</a>
n-Propylbenzene	73.1		6.98	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
1,2,4-Trimethylbenzene	584		7.46	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
1,3,5-Trimethylbenzene	141		7.74	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
Toluene	3690		8.24	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
o-Xylene	834		6.82	20.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
m&p-Xylenes	2250		14.4	40.0	20	06/09/2017 17:42	<a href="#">WG987217</a>
(S) Toluene-d8	103			80.0-120		06/09/2017 17:42	<a href="#">WG987217</a>
(S) Dibromofluoromethane	102			76.0-123		06/09/2017 17:42	<a href="#">WG987217</a>
(S) a,a,a-Trifluorotoluene	101			80.0-120		06/09/2017 17:42	<a href="#">WG987217</a>
(S) 4-Bromofluorobenzene	110			80.0-120		06/09/2017 17:42	<a href="#">WG987217</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.9		1	06/07/2017 14:01	<a href="#">WG986659</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Benzene	44.6	J	12.9	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
n-Butylbenzene	24.9	J	12.3	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
sec-Butylbenzene	U		9.58	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
tert-Butylbenzene	U		9.82	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
Ethylbenzene	335		14.1	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
Isopropylbenzene	23.9	J	11.6	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
p-Isopropyltoluene	U		9.73	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
Methyl tert-butyl ether	U		10.1	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
Naphthalene	305		47.7	238	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
n-Propylbenzene	92.3		9.82	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
1,2,4-Trimethylbenzene	589		10.1	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
1,3,5-Trimethylbenzene	153		12.7	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
Toluene	1430		20.6	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
o-Xylene	459		17.4	47.7	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
m&p-Xylenes	1270		15.8	95.3	39.5	06/12/2017 14:23	<a href="#">WG987524</a>
(S) Toluene-d8	109			80.0-120		06/12/2017 14:23	<a href="#">WG987524</a>
(S) Dibromofluoromethane	98.8			74.0-131		06/12/2017 14:23	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	107			80.0-120		06/12/2017 14:23	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	96.7			64.0-132		06/12/2017 14:23	<a href="#">WG987524</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.2		1	06/12/2017 17:19	<a href="#">WG988393</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Benzene	31.0	J	14.7	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
n-Butylbenzene	34.6	J	14.1	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
sec-Butylbenzene	18.5	J	11.1	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
tert-Butylbenzene	U		11.3	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
Ethylbenzene	467		16.3	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
Isopropylbenzene	34.4	J	13.3	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
p-Isopropyltoluene	19.3	J	11.2	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
Methyl tert-butyl ether	U		11.6	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
Naphthalene	527		54.8	274	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
n-Propylbenzene	102		11.3	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
1,2,4-Trimethylbenzene	972		11.5	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
1,3,5-Trimethylbenzene	275		14.5	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
Toluene	1570		23.8	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
o-Xylene	779		20.1	54.8	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
m&p-Xylenes	1700		18.2	110	50.5	06/12/2017 14:36	<a href="#">WG987524</a>
(S) Toluene-d8	109			80.0-120		06/12/2017 14:36	<a href="#">WG987524</a>
(S) Dibromofluoromethane	104			74.0-131		06/12/2017 14:36	<a href="#">WG987524</a>
(S) a,a,a-Trifluorotoluene	107			80.0-120		06/12/2017 14:36	<a href="#">WG987524</a>
(S) 4-Bromofluorobenzene	101			64.0-132		06/12/2017 14:36	<a href="#">WG987524</a>

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Method Blank (MB)

(MB) R3224000-1 06/07/17 14:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000300			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L913548-05 Original Sample (OS) • Duplicate (DUP)

(OS) L913548-05 06/07/17 14:01 • (DUP) R3224000-3 06/07/17 14:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	78.1	77.6	1	0.656		5

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3224000-2 06/07/17 14:01

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

9 Sc



Method Blank (MB)

(MB) R3223994-1 06/07/17 13:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000500			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L913548-01 Original Sample (OS) • Duplicate (DUP)

(OS) L913548-01 06/07/17 13:47 • (DUP) R3223994-3 06/07/17 13:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	85.1	86.4	1	1.59		5

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3223994-2 06/07/17 13:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3224305-1 06/08/17 10:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000400			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L913533-10 Original Sample (OS) • Duplicate (DUP)

(OS) L913533-10 06/08/17 10:22 • (DUP) R3224305-3 06/08/17 10:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	84.6	85.0	1	0.457		5

<sup>7</sup> Gl

<sup>8</sup> Al

Laboratory Control Sample (LCS)

(LCS) R3224305-2 06/08/17 10:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3225053-1 06/12/17 17:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00120			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L913558-01 Original Sample (OS) • Duplicate (DUP)

(OS) L913558-01 06/12/17 17:19 • (DUP) R3225053-3 06/12/17 17:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	87.7	87.5	1	0.209		5

<sup>7</sup> Gl

<sup>8</sup> Al

Laboratory Control Sample (LCS)

(LCS) R3225053-2 06/12/17 17:19

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3224361-4 06/08/17 13:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.331	1.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Ethylbenzene	U		0.384	1.00
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Toluene	U		0.412	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
o-Xylene	U		0.341	1.00
m&p-Xylenes	U		0.719	2.00
(S) Toluene-d8	102			80.0-120
(S) Dibromofluoromethane	98.9			76.0-123
(S) a,a,a-Trifluorotoluene	98.2			80.0-120
(S) 4-Bromofluorobenzene	102			80.0-120

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3224361-1 06/08/17 12:46 • (LCSD) R3224361-2 06/08/17 13:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	25.0	25.7	26.3	103	105	69.0-123			2.51	20
n-Butylbenzene	25.0	25.2	26.1	101	105	72.0-126			3.79	20
sec-Butylbenzene	25.0	25.2	26.3	101	105	74.0-121			4.17	20
tert-Butylbenzene	25.0	24.9	26.1	99.5	104	75.0-122			4.80	20
Ethylbenzene	25.0	25.6	26.2	102	105	77.0-120			2.38	20
Isopropylbenzene	25.0	25.6	26.6	102	106	75.0-120			3.73	20
p-Isopropyltoluene	25.0	25.2	26.3	101	105	74.0-126			4.31	20
Methyl tert-butyl ether	25.0	24.0	24.0	95.9	96.1	64.0-123			0.200	20
Naphthalene	25.0	24.1	24.3	96.6	97.4	62.0-128			0.830	20
n-Propylbenzene	25.0	26.1	26.8	104	107	79.0-120			2.83	20
Toluene	25.0	24.7	25.2	98.8	101	77.0-120			2.12	20
1,2,4-Trimethylbenzene	25.0	25.4	26.4	101	106	75.0-120			4.19	20
1,3,5-Trimethylbenzene	25.0	25.2	26.2	101	105	75.0-120			3.91	20
o-Xylene	25.0	24.0	24.8	95.9	99.1	78.0-120			3.29	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3224361-1 06/08/17 12:46 • (LCSD) R3224361-2 06/08/17 13:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
m&p-Xylenes	50.0	49.1	50.9	98.2	102	77.0-120			3.55	20
<i>(S) Toluene-d8</i>				103	103	80.0-120				
<i>(S) Dibromofluoromethane</i>				102	99.6	76.0-123				
<i>(S) a,a,a-Trifluorotoluene</i>				97.3	99.5	80.0-120				
<i>(S) 4-Bromofluorobenzene</i>				103	102	80.0-120				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3224690-2 06/09/17 11:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/kg		ug/kg	ug/kg
Benzene	U		0.270	1.00
n-Butylbenzene	U		0.258	1.00
sec-Butylbenzene	U		0.201	1.00
tert-Butylbenzene	U		0.206	1.00
Ethylbenzene	U		0.297	1.00
Isopropylbenzene	U		0.243	1.00
p-Isopropyltoluene	U		0.204	1.00
Methyl tert-butyl ether	U		0.212	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.206	1.00
Toluene	U		0.434	1.00
1,2,4-Trimethylbenzene	U		0.211	1.00
1,3,5-Trimethylbenzene	U		0.266	1.00
o-Xylene	U		0.366	1.00
m&p-Xylenes	U		0.332	2.00
(S) Toluene-d8	107			80.0-120
(S) Dibromofluoromethane	93.3			74.0-131
(S) a,a,a-Trifluorotoluene	109			80.0-120
(S) 4-Bromofluorobenzene	104			64.0-132

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3224690-1 06/09/17 09:56 • (LCSD) R3224690-3 06/09/17 14:33

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	%	%	%			%	%
Benzene	25.0	22.4	20.5	89.8	81.9	71.0-124			9.18	20
n-Butylbenzene	25.0	25.8	23.0	103	92.0	73.0-126			11.4	20
sec-Butylbenzene	25.0	27.3	24.2	109	96.9	75.0-121			12.0	20
tert-Butylbenzene	25.0	25.7	23.1	103	92.2	74.0-122			10.9	20
Ethylbenzene	25.0	24.8	21.6	99.2	86.4	77.0-120			13.8	20
Isopropylbenzene	25.0	26.2	23.2	105	92.8	75.0-120			12.1	20
p-Isopropyltoluene	25.0	25.7	22.7	103	90.7	74.0-125			12.6	20
Methyl tert-butyl ether	25.0	21.1	20.4	84.4	81.7	66.0-125			3.23	20
Naphthalene	25.0	24.2	25.8	96.7	103	64.0-125			6.44	20
n-Propylbenzene	25.0	25.3	22.0	101	88.2	78.0-120			13.9	20
Toluene	25.0	23.3	21.0	93.0	84.1	77.0-120			10.1	20
1,2,4-Trimethylbenzene	25.0	25.4	22.2	102	89.0	75.0-120			13.2	20
1,3,5-Trimethylbenzene	25.0	26.0	22.8	104	91.3	75.0-120			13.0	20
o-Xylene	25.0	25.1	22.4	101	89.5	77.0-120			11.6	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3224690-1 06/09/17 09:56 • (LCSD) R3224690-3 06/09/17 14:33

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
m&p-Xylenes	50.0	48.6	42.5	97.1	85.0	77.0-120			13.3	20
(S) Toluene-d8				105	104	80.0-120				
(S) Dibromofluoromethane				94.3	93.7	74.0-131				
(S) a,a,a-Trifluorotoluene				105	106	80.0-120				
(S) 4-Bromofluorobenzene				105	101	64.0-132				

L913558-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L913558-04 06/09/17 19:08 • (MS) R3224690-4 06/09/17 15:21 • (MSD) R3224690-5 06/09/17 15:42

Analyte	Spike Amount ug/kg	Original Result ug/kg	MS Result ug/kg	MSD Result ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	U	14.6	13.9	58.3	55.5	1	13.0-146			4.96	27
n-Butylbenzene	25.0	U	10.5	9.49	41.9	38.0	1	10.0-154			9.86	37
sec-Butylbenzene	25.0	U	10.8	9.33	43.3	37.3	1	10.0-151			14.8	36
tert-Butylbenzene	25.0	U	11.1	9.55	44.4	38.2	1	10.0-152			15.0	35
Ethylbenzene	25.0	U	12.3	11.4	49.3	45.6	1	10.0-147			7.75	31
Isopropylbenzene	25.0	U	12.0	10.9	48.0	43.4	1	10.0-147			10.0	33
p-Isopropyltoluene	25.0	U	10.2	8.75	40.9	35.0	1	10.0-156			15.5	37
Methyl tert-butyl ether	25.0	U	14.4	13.3	57.8	53.2	1	21.0-145			8.21	29
Naphthalene	25.0	U	9.92	8.90	39.7	35.6	1	10.0-153			10.9	36
n-Propylbenzene	25.0	U	11.1	9.73	44.4	38.9	1	10.0-151			13.2	34
Toluene	25.0	U	14.0	13.0	55.9	52.1	1	10.0-144			7.09	28
1,2,4-Trimethylbenzene	25.0	U	10.5	9.43	41.9	37.7	1	10.0-151			10.6	34
1,3,5-Trimethylbenzene	25.0	U	11.1	9.63	44.2	38.5	1	10.0-150			13.8	33
o-Xylene	25.0	U	12.3	11.3	49.2	45.1	1	10.0-143			8.60	35
m&p-Xylenes	50.0	U	23.6	21.4	47.2	42.9	1	10.0-144			9.60	34
(S) Toluene-d8					105	105		80.0-120				
(S) Dibromofluoromethane					98.6	96.7		74.0-131				
(S) a,a,a-Trifluorotoluene					105	103		80.0-120				
(S) 4-Bromofluorobenzene					94.7	92.2		64.0-132				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
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<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

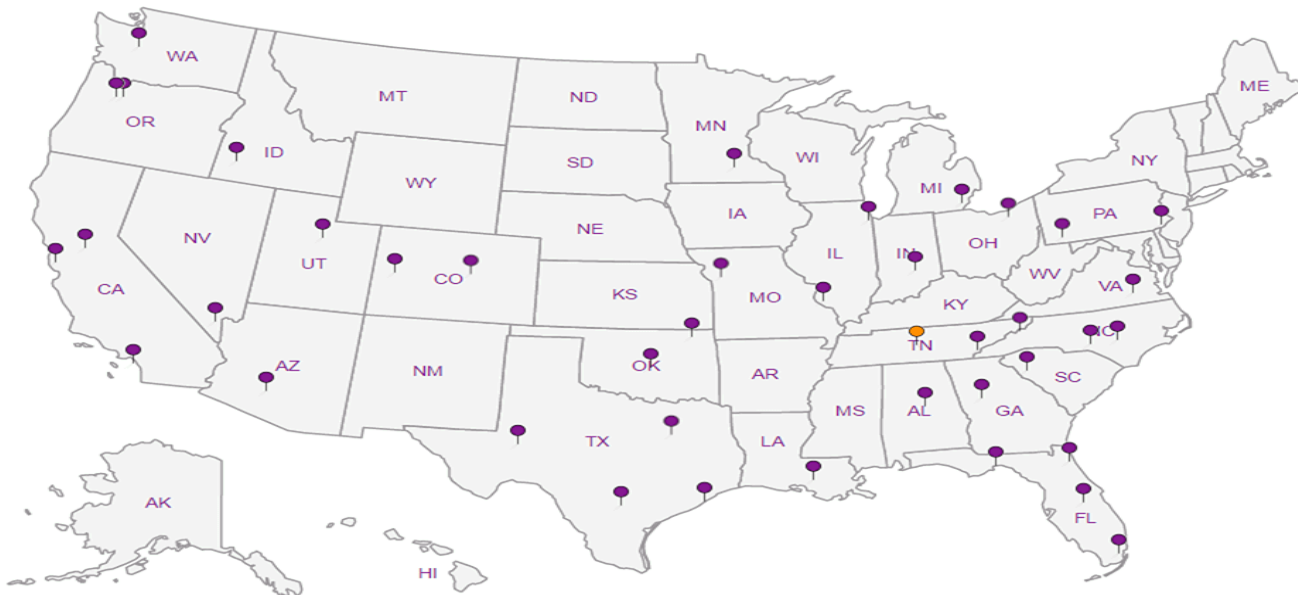
## Third Party & Federal Accreditations


A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



<b>Lender Consulting Services - NY</b> 40 La Riviere Dr., Ste. 120 Buffalo, NY 14202		Billing Information: <b>Accounts Payable</b> 40 La Riviere Dr., Ste. 120 Buffalo, NY 14202		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page ___ of ___	
Report to: <b>Mr. Doug Reid</b>		Email To: LCSBNY@esclabsciences.com, dreid@lenderconsulti														 L.A.B S.C.I.E.N.C.E.S <b>YOUR LAB OF CHOICE</b> 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-757-5859 Fax: 615-758-5859	
Project Description: <b>226 n Allen St</b>		City/State Collected: <b>Albany NY</b>														L# <b>91356</b> <b>D058</b>	
Phone: <b>716-845-6145</b> Fax: <b>716-845-6164</b>		Client Project # <b>16H6938.22</b>		Lab Project # <b>LCSBNY-16H693822</b>												Acctnum: <b>LCSBNY</b> Template: <b>T124127</b> Prelogin: <b>P602582</b> T5R: <b>364 - T. Alan Harvill</b> PB: <b>D. 15.17 CM</b>	
Collected by (print): <b>Anyatruie</b>		Site/Facility ID # <b>LCS</b>		P.O. #												Shipped Via: <b>FedEX Standard</b>	
Collected by (signature): <b>Anyatruie</b>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #												Remarks Sample # (lab only)	
Immediately Packed on Ice N ___ Y ___		Date Results Needed		No. of Cntrs													
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	TS 2ozClr-NoPres	V8260STAR5 40ml/NaHSO4/Syr/MeOH	V8260STAR5 40mlAmb-HCl	VOC Screen 2ozClr-NoPres								
BH 1 10-12	Grab	SS	10-12	5/30	12:30	X	X		X								01
BH 2	Grab	SS	8-10	5/30	1:30	X	X		X								02
BH 4	Grab	SS	8-10	5/30	2:00	X	X		X								03
BH 3	Grab	SS	12-14	5/30	2:00	X	X		X								04
BH 5	Grab	SS	10-18	5/30	2:52	5	X	X	X								05
BH 6	Grab	SS	10-12	5/30	3:03	5	X	X	X								06
TPMW #1	Grab	GW	—	5/30	12:45	2		X									07
TPMW #2	Grab	GW	—	5/30	1:00	2		X									08
TPMW #3	Grab	GW	—	5/30		2		X									09
TPMW #4	Grab	GW	—	5/30		2		X									10
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking # <b>7372 1953 9276</b>		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Bottles arrive intact: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Correct bottles used: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sufficient volume sent: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Preservation Correct/Checked: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <b>30</b>							
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No HCl/MeOH TBR		if preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <b>5.6</b> °C Bottles Received: <b>49</b>		Hold:							
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date: <b>6-3-17</b> Time: <b>0845</b>		Condition: <b>NCF / OK</b>							







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517586

**From:** Joseph Halleck [mailto:jhalleck@lenderconsulting.com]  
**Sent:** Wednesday, May 31, 2017 10:25 AM  
**To:** Alan Harvill  
**Subject:** N Allen street, Albany, NY, 16H6938.22

Good morning Alan,

We have samples coming in from our trainee that have the wrong labels on them. Samples are coming in from N Allen street, Albany, NY, 16H6938.22. Can you please change the sample labels to.

BH1=BH10  
BH2=BH11  
BH3=BH12  
BH4=BH13  
BH5=BH14  
BH6=BH15  
BH7=BH16  
BH8= BH17

TPMW1=TMPW3  
TPMW2= TPMW4  
TPMW3=TPMW5  
TPMW4=TPMW6

I also informed them to keep the carbon copy on the chain of custody and send the originals to the lab from now on.

Thank you,  
Joe Halleck  
*Environmental Analyst  
LCS, Inc.  
Waterfront Village Center  
40 La Riviere Drive, Suite 120  
Buffalo, New York 14202  
1-800-474-6802*

## LIMITATIONS

This environmental study is limited by the scope of services contained within this report and time frames specified within the contract for services.

This environmental study makes no warranties nor implies any liability regarding:

1. Any impacted media located beneath the on-site structure(s).
2. Any chemical analytes not included within the analytical test methods employed during this study.
3. Any impacted media present from off-site sources not assessed.
4. Any impact at locations and depths not assessed in this study.
5. Any impact at locations where access was limited (i.e., beneath structures, etc.).
6. Vapor Intrusion.

Conclusions and/or recommendations made within the study are based on the interpretation of data collected at individual sample locations and may change if additional data is collected during future study. Conditions between sampling locations are estimated based on available data. Intrusive studies serve to reduce, but not eliminate, the potential environmental risk associated with a property. No study is considered all-inclusive or representative of the entire subject property. Such would be cost prohibitive.