360104

ALTA Environmental Corp.
121 Broadway, Colchester, Connecticut 06415
Phone: (860) 537-2582, Fax: (860) 537-8374

6 May 2019
File No. 1064-01

Mr. Chris Espinoza
6 Bedford-Banksville Road
North Castle, NY 10506

Re: April 2019 Water Supply Well and Water Treatment System Monitoring Results

Dear Mr. Espinoza:

ALTA Environmental Corporation (ALTA) is pleased to present the recent monitoring results for the water supply at 6 Bedford-Banksville Road in North Castle, New York. ALTA understands that you recently purchased the house which is currently vacant pending sale or lease. At your request, ALTA has included background information relating to the water treatment system installed at the 6 Bedford-Banksville Road property. ALTA's work was completed on behalf of Sutton Land, LLC (Sutton Land), the property owner of the North Street Shopping Center (NSSC) at 1041-1073 North Street in Greenwich, Connecticut, in accordance with our Agreement dated 10 October 2013.

Background

In the late 1980s/early 1990s, several area bedrock water supply wells in the vicinity of the NSSC, including the former water supply well at the Grand Slam Tennis Club, were found to be impacted with volatile organic compounds (VOCs), including the dry cleaning solvent tetrachloroethylene (PCE). In response to this finding, the Connecticut Department of Energy & Environmental Protection (DEEP), the New York State Department of Environmental Conservation (NYS DEC), the Westchester County Department of Health (WCDH), and Malcolm Pirnie, Inc. (on behalf of the owner of NSSC), conducted investigations to identify the source(s) of the VOC contamination in area drinking water supplies. The DEEP issued Order No. WC5097 in 1994 to North Castle Cleaner's Inc. and to the property owner of the NSSC, requiring the investigation and remediation of PCE contamination believed to be stemming from this site. Malcolm Pirnie's investigations revealed that PCE releases to the septic tank leaching system at the NSSC were a likely source of PCE contamination to the bedrock aquifer near the NSSC. The septic system at the NSSC was replaced, and soil in the area of the septic tank was remediated, in 2012.

Since 1997, the original water supply well at the tennis club property has been operated as a groundwater recovery well to control migration of the dissolved-phase VOC groundwater plume. Water from the well is pumped to a shallow-tray air stripper on the NSSC property for removal of VOCs. Following treatment, the water is discharged via gravity to a storm sewer that discharges to an unnamed stream. The discharge is permitted under the DEEP's *General Permit for the Discharge of Groundwater Remediation Wastewater Directly to Surface Water* (General Permit No. GRS000060; Site No. 057-136). ALTA, on behalf of Sutton Land, coordinates the monitoring and maintenance of the groundwater containment and treatment system.

Area water supply wells have been tested from 1988 to the present by the DEEP, the WCDH, the NYDEC and/or representatives of Sutton Land, LLC. Water supply quality data generated in the early 1990s indicated that several residential and commercial water supplies in the area contained VOCs, some at levels exceeding the Connecticut and/or New York drinking water standards. Granular activated carbon (GAC) treatment systems were installed at selected properties, including the tennis club property, in the early 1990s by the DEEP or the NYS DEC. The water supply well on the tennis club property was replaced with a 925-ft. deep bedrock water supply well on the tennis club property in April 1996. At present, there are two locations (6 Bedford-Banksville Road in New York and 1064 North Street in Connecticut) where operation and maintenance of carbon treatment systems for impacted drinking water supply wells is still warranted. ALTA, on behalf of Sutton Land, has been coordinating semi-annual monitoring of untreated and treated water at these locations, and the maintenance of these treatment systems (as warranted).

Recent Water Supply Well and Treatment System Results

The water supply at 6 Bedford-Banksville Road is treated using a GAC treatment system, ultraviolet (UV) disinfection unit, and sediment filters installed before and after the carbon filters. The original system was installed by New York State (NYS) in 1994. The UV unit is positioned after the carbon treatment system, and the final sediment filter is comprised of an odor and taste filter. On 23 April 2019, Foley's Pump Service replaced the original Trojan 708 UV with a Viqua D-4 Premium UV disinfection unit, and changed the sediment filters. The carbon filters unit were last rebedded by Foley's Pump Service on 28 November 2018. ALTA understands that Churyk Company Inc. replaced the pump and piping in your well, and chlorinated the well on 1 October 2018.

On 4 April 2019, ALTA personnel collected water quality samples after letting the water run for about 22 minutes. ALTA collected samples of the untreated ("raw") water, the water between the carbon filters ("intermediate"), and the water after the carbon filters ("final). The sampling tap for the final water sample was wiped with isopropyl alcohol for disinfection purposes prior to collecting the sample for bacteria analyses. A copy of ALTA's Residential Sampling Record Form is attached.

The water samples were placed into laboratory-provided sample containers, which contained preservatives appropriate to each type of analysis. The samples were placed on ice and kept chilled until delivery to a laboratory that is accredited pursuant to NYS Department of Health (DOH) Environmental Laboratory Accreditation Program for the requested analyses. Specifically, the raw, intermediate and final water samples were submitted to Phoenix Environmental Laboratories, Inc. (Phoenix, NY Registration #11301), for analysis for volatile organic compounds (VOCs) by EPA Method 524.2 in general conformance with the Connecticut Department of Energy & Environmental Protection (DEEP) "*Reasonable Confidence Protocols*" (RCP), although the requested analyses are not technically RCP methods. The final sample was additionally submitted for analysis for total coliform and Escherichia coliform bacteria. The laboratory report is attached for reference, along with ALTA's Data Quality Assessment/Data Usability Evaluation (DQA/DUE) form.

The results of laboratory testing for water samples collected from your residence are summarized below:

Sample Location	Compound	Concentration (µg/l)	NYS Regulatory Limit (µg/l)
Raw (untreated)	VOCs:		
	trichloroethene	0.69	5
	cis-1,2-dichloroethene	**7.1**	5
	tetrachloroethene	0.76	5
	toluene	2.0	5
	methyl tert-butyl ether	0.59	10
	1,1-dichloroethane	0.64	5
Intermediate	VOC – none detected	---	---
Final	VOCs – none detected		
	Total Coliform bacteria	1 MPN/100 ml	0 MPN/100 ml
	Escherichia Coliform bacteria	None detected	0 MPN/100 ml

Notes:

VOCs = volatile organic compounds
µg/ml – micrograms per milliliter
Raw – untreated water sample collected before the carbon treatment system
Intermediate –water sample collected between the carbon filters
Final – treated water sample collected after the carbon treatment and UV disinfection systems
MPN/100 ml – most probable number per 100 milliliters

Trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethane (1,1-DCA), methyl tert-butyl ether (MTBE), and tetrachloroethene (PCE) were detected in the raw (untreated) water at levels that are consistent with past testing results. Toluene was also detected in the sample of your raw water, and is anomalous compared to historic testing results. Toluene is likely related to replacement of your well pump and piping (e.g., relating to the use of electrical tape on pump wire and piping), and if so should dissipate over time with continued well usage. The concentrations of the detected constituents are below NYS Drinking Water Standards (DWS), with the exception of cis-1,2-DCE which is above the NYS DWS as summarized in the table above. Note that the detected constituents do not have compound-specific NYS DOH Part 5 Maximum Contaminant Level (MCL) DWS, with the exception of the MTBE. The detected compounds fall under the definition of a "Principal Organic Compound" (POC) for which the DWS is 5 µg/l for the individual compounds detected. Part 5 does have compound-specific DWS for MTBE which is 10 µg/l. Notably, VOCs were not detected in the intermediate sample collected from between the carbon filters or from the final sample collected after the carbon filters which reflects the quality of your treated drinking water supply. Total coliform bacteria was detected at a concentration of 1 MPN/100 ml in the sample collected from after the GAC filters. Escherichia coliform bacteria, which indicate the presence of coliform bacteria from fecal matter, were not detected. The NYS DOH MCL for total coliform or Escherichia coliform bacteria is any positive detection.

In summary, several VOCs were detected in the raw (untreated) water at levels that are consistent with past testing results, and one VOC (toluene) was detected that is likely related to replacement of your well pump and piping. Cis-1,2-DCE was the only VOC detected in your untreated water above NYS DWS. VOCs were not detected in the water samples collected from after the carbon treatment system which reflects the quality

of your drinking water supply. Total coliform bacteria were detected in the sample of treated water exiting the UV disinfection unit.

In response to the detection of total coliform bacteria in your treated water sample, Foley's Pump Service evaluated the existing Trojan UV disinfection unit and concluded that it was malfunctioning. Foley's Pump Service replaced the UV disinfection unit on 23 April 2019 as summarized above. On 24 April 2019, ALTA collected a water sample from after the UV disinfection unit and submitted the sample to Phoenix for analysis for total coliform bacteria and Escherichia coliform bacteria. The laboratory report is attached for reference, along with ALTA's DQA and DUE form. Total coliform bacteria and Escherichia coliform bacteria were not detected.

The next routine monitoring of your untreated and treated water will be scheduled for September 2019. If you have questions regarding these results, please do not hesitate to contact the undersigned.

Sincerely yours,
ALTA Environmental Corporation

Gordon Binkhorst, Ph.D.
Senior Hydrogeologist

Evan J. Glass
President

Attachments: Residential Sampling Record Forms
Phoenix Environmental Laboratories, Inc. Report GCC89175, dated 9 April 2019
Phoenix Environmental Laboratories, Inc. Report GCD00564, dated 26 April 2019

c: David A. Crosby, NYS Department of Environmental Conservation
George Momberger, NYS Department of Environmental Conservation
Carlos Torres, Westchester County Department of Health
Guy Sutton, Esq.

L1064 Espinoza 050619

ALTA Environmental Corporation
RESIDENTIAL SAMPLING RECORD FORM

FILE NO. 1064 CLIENT: NSSC
SAMPLING DATE: 4/4/19 PROJECT: PUBLIC OW SAMPLING
FIELD PERSONNEL: B STRAUB LOCATION: GREENWICH

WEATHER — Temp (deg F) <20 - 20 - 30 - 40 - 50 - 60 - 70 - 80 - 90 - >90

Sunny; Partly cloudy; Rain (Light/Heavy); Sleet (Light/Heavy); Snow (Light/Heavy); Overcast; Heavy Clouds; Dry; Slightly humid; Mod. humid; Very humid

WIND CONDITIONS: None to Little; Mod. to Heavy; Little to Mod.; Steady; Variable; Direction From:_____

GROUND SURFACE CONDITIONS: Dry; Standing Water; Damp; Snow:_____ inches; Wet; Other:_____

WATER SAMPLING INFORMATION (a)

SAMPLE LOCATION/ DESIGNATION	SAMPLING LOCATION/ FLOWRATE & TIMES	SAMPLE DESCRIPTION/ COMMENTS	SAMPLING DEVICE	CONTAINERS
6 BB ROAD RAW	TIME Purging Started: 1208 Purging Stopped: 1230 Sample: 1233	PRESSURE TANK	GLOVED HAND	2 VOA
6 BB ROAD INTERMEDIATE	TIME Purging Started: 1208 Purging Stopped: 1230 Sample: 1235	IN BETWEEN CARBON VESSELS	↓	2 VOA
6 BB ROAD FINAL	TIME Purging Started: 1208 Purging Stopped: 1230 Sample: 1237	KITCHEN SINK	↓	2 VOA BACTERIA
	TIME Purging Started: Purging Stopped: Sample:			
	TIME Purging Started: Purging Stopped: Sample:			
	TIME Purging Started: Purging Stopped: Sample:			

REMARKS:
RESIDENCE OWNED BY CHRISTIAN ESPINOZA
CURRENTLY VACANT - PENDING SALE OR LEASE

Notes: WATER HAS SLIGHT CHLOR - NOT USED DURING RENOVATION LAST 6 MONTHS

a. All non-disposable sampling devices are cleaned using the following sequence, unless otherwise noted: non-phosphate detergent wash, tap water rinse, methanol wipe or rinse, distilled or deionized water rinse, paper towel or air dry.

PHOENIX
Environmental Laboratories, Inc.

Tuesday, April 09, 2019

Attn: Mr. Brian Straub
ALTA Environmental
121 Broadway
Colchester, CT 06415

Project ID: NSSC GREENWICH
SDG ID: GCC89175
Sample ID#s: CC89175 - CC89177

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

April 09, 2019

SDG I.D.: GCC89175

Project ID: NSSC GREENWICH

Client Id	Lab Id	Matrix
6 BB ROAD RAW	CC89175	GROUND WATER
6 BB ROAD INTERMEDIATE	CC89176	GROUND WATER
6 BB ROAD FINAL	CC89177	DRINKING WATER

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 09, 2019

FOR: Attn: Mr. Brian Straub
ALTA Environmental
121 Broadway
Colchester, CT 06415

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/04/19	12:33
Location Code:	ALTAENV	Received by:	B	04/04/19	18:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	1064				

Laboratory Data

SDG ID: GCC89175
Phoenix ID: CC89175

Project ID: NSSC GREENWICH
Client ID: 6 BB ROAD RAW

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,1-Trichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,2-Trichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	1
1,1-Dichloroethane	0.64	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1-Dichloropropene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,3-Trichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,3-Trichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,4-Trichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2-Dichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2	
1,4-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
2,2-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
2-Chlorotoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
4-Chlorotoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
Benzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
Bromobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
Bromochloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	

Project ID: NSSC GREENWICH
Client ID: 6 BB ROAD RAW

Phoenix I.D.: CC89175

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromodichloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromoform	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromomethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Carbon tetrachloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloroform	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
cis-1,2-Dichloroethene	7.1	0.50	ug/L	1	04/08/19	JLI	E524.2
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2
Dibromochloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Dibromomethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Dichlorodifluoromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Ethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Hexachlorobutadiene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Isopropylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
m&p-Xylene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Methyl t-butyl ether (MTBE)	0.59	0.50	ug/L	1	04/08/19	JLI	E524.2
Methylene chloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Naphthalene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
n-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
n-Propylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
o-Xylene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
p-Isopropyltoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
sec-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Styrene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
tert-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Tetrachloroethene	0.76	0.50	ug/L	1	04/08/19	JLI	E524.2
Toluene	2.0	0.50	ug/L	1	04/08/19	JLI	E524.2
Total Trihalomethanes	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Total Xylenes	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2
Trichloroethene	0.69	0.50	ug/L	1	04/08/19	JLI	E524.2
Trichlorofluoromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Vinyl chloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	04/08/19	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	04/08/19	JLI	70 - 130 %
Volatile Library Search	Completed				04/09/19	JLI	

Project ID: NSSC GREENWICH
Client ID: 6 BB ROAD RAW

Phoenix I.D.: CC89175

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
April 09, 2019
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 09, 2019

FOR: Attn: Mr. Brian Straub
ALTA Environmental
121 Broadway
Colchester, CT 06415

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/04/19	12:35
Location Code:	ALTAENV	Received by:	B	04/04/19	18:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	1064				

Laboratory Data

SDG ID: GCC89175
Phoenix ID: CC89176

Project ID: NSSC GREENWICH
Client ID: 6 BB ROAD INTERMEDIATE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,1-Trichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,2-Trichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	1
1,1-Dichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,1-Dichloropropene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,3-Trichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,3-Trichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,4-Trichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2-Dichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,2-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2	
1,4-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
2,2-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
2-Chlorotoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
4-Chlorotoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
Benzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
Bromobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	
Bromochloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2	

Project ID: NSSC GREENWICH
Client ID: 6 BB ROAD INTERMEDIATE

Phoenix I.D.: CC89176

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromodichloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromoform	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromomethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Carbon tetrachloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloroform	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2
Dibromochloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Dibromomethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Dichlorodifluoromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Ethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Hexachlorobutadiene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Isopropylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
m&p-Xylene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Methyl t-butyl ether (MTBE)	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Methylene chloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Naphthalene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
n-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
n-Propylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
o-Xylene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
p-Isopropyltoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
sec-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Styrene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
tert-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Tetrachloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Toluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Total Trihalomethanes	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Total Xylenes	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2
Trichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Trichlorofluoromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Vinyl chloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/08/19	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	04/08/19	JLI	70 - 130 %
Volatile Library Search	Completed				04/09/19	JLI	

Project ID: NSSC GREENWICH
Client ID: 6 BB ROAD INTERMEDIATE

Phoenix I.D.: CC89176

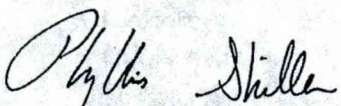
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
April 09, 2019
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 09, 2019

FOR: Attn: Mr. Brian Straub
ALTA Environmental
121 Broadway
Colchester, CT 06415

Sample Information		Custody Information		Date	Time
Matrix:	DRINKING WATER	Collected by:		04/04/19	12:37
Location Code:	ALTAENV	Received by:	B	04/04/19	18:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	1064				

Laboratory Data

SDG ID: GCC89175
Phoenix ID: CC89177

Project ID: NSSC GREENWICH
Client ID: 6 BB ROAD FINAL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<1	1	MPN/100 mls	1	04/04/19 18:45	MLT/MLT	SM9223B-04
Total Coliforms	1	1	MPN/100 mls	1	04/04/19 18:45	MLT/MLT	SW9223B-04
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,1,1-Trichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,1,2-Trichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,1-Dichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,1-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,1-Dichloropropene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,2,3-Trichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,2,3-Trichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,2,4-Trichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,2-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,2-Dichloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,2-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,3-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,3-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2
1,4-Dichlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
2,2-Dichloropropane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
2-Chlorotoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
4-Chlorotoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Benzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2

1

Ver 1

Project ID: NSSC GREENWICH
Client ID: 6 BB ROAD FINAL

Phoenix I.D.: CC89177

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromochloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromodichloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromoform	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Bromomethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Carbon tetrachloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chlorobenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloroethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloroform	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Chloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2
Dibromochloromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Dibromomethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Dichlorodifluoromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Ethylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Hexachlorobutadiene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Isopropylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
m&p-Xylene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Methyl t-butyl ether (MTBE)	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Methylene chloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Naphthalene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
n-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
n-Propylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
o-Xylene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
p-Isopropyltoluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
sec-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Styrene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
tert-Butylbenzene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Tetrachloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Toluene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Total Trihalomethanes	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Total Xylenes	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/08/19	JLI	E524.2
Trichloroethene	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Trichlorofluoromethane	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
Vinyl chloride	ND	0.50	ug/L	1	04/08/19	JLI	E524.2
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/08/19	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	04/08/19	JLI	70 - 130 %
Volatile Library Search	Completed				04/09/19	JLI	

Project ID: NSSC GREENWICH
Client ID: 6 BB ROAD FINAL

Phoenix I.D.: CC89177

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
April 09, 2019
Reviewed and Released by: Rashmi Makol, Project Manager

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: 6 BB ROAD RAW

Lab Name: Phoenix Environmental Labs Client: ALTAENV

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCC89175

Matrix:(soil/water) WATER Lab Sample ID: CC89175

Sample wt/vol: 5 (g/mL) mL Lab File ID: 0408_20.D

Level: (low/med) Date Received: 04/04/19

% Moisture: not dec. 100 Date Analyzed: 04/08/19

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Purge Volume 5000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

BB ROAD INTERMEDIATE

Lab Name: Phoenix Environmental Labs Client: ALTAENV

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCC89175

Matrix:(soil/water) WATER Lab Sample ID: CC89176

Sample wt/vol: 5 (g/mL) mL Lab File ID: 0408_21.D

Level: (low/med) Date Received: 04/04/19

% Moisture: not dec. 100 Date Analyzed: 04/08/19

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Purge Volume 5000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

6 BB ROAD FINAL

Lab Name: Phoenix Environmental Labs   Client: ALTAENV

Lab Code: Phoenix   Case No.: ____   SAS No.: ____   SDG No.: GCC89175

Matrix:(soil/water) WATER   Lab Sample ID: CC89177

Sample wt/vol: 5 (g/mL) mL   Lab File ID: 0408_22.D

Level: (low/med) ____   Date Received: 04/04/19

% Moisture: not dec. 100   Date Analyzed: 04/08/19

GC Column: rtx-vms   ID: 0.18 (mm)   Dilution Factor: 1

Purge Volume 5000 (uL)   Soil Aliquot Vol (uL): n.a.

Number TICs found: 0   CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

April 09, 2019

QA/QC Data

SDG I.D.: GCC89175

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 473987 (ug/L), QC Sample No: CC81946 (CC89175, CC89176, CC89177)										
Volatiles - Ground Water, Drinking Water										
1,1,1,2-Tetrachloroethane	ND	0.50	94	102	8.2				70 - 130	30
1,1,1-Trichloroethane	ND	0.50	92	97	5.3				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	94	102	8.2				70 - 130	30
1,1,2-Trichloroethane	ND	0.50	91	95	4.3				70 - 130	30
1,1-Dichloroethane	ND	0.50	93	100	7.3				70 - 130	30
1,1-Dichloroethene	ND	0.50	89	98	9.6				70 - 130	30
1,1-Dichloropropene	ND	0.40	92	98	6.3				70 - 130	30
1,2,3-Trichlorobenzene	ND	0.50	92	101	9.3				70 - 130	30
1,2,3-Trichloropropane	ND	0.50	90	96	6.5				70 - 130	30
1,2,4-Trichlorobenzene	ND	0.50	94	99	5.2				70 - 130	30
1,2,4-Trimethylbenzene	ND	0.50	93	101	8.2				70 - 130	30
1,2-Dichlorobenzene	ND	0.50	93	99	6.3				70 - 130	30
1,2-Dichloroethane	ND	0.50	94	98	4.2				70 - 130	30
1,2-Dichloropropane	ND	0.50	94	99	5.2				70 - 130	30
1,3,5-Trimethylbenzene	ND	0.50	91	99	8.4				70 - 130	30
1,3-Dichlorobenzene	ND	0.50	93	101	8.2				70 - 130	30
1,3-Dichloropropane	ND	0.50	93	99	6.3				70 - 130	30
1,4-Dichlorobenzene	ND	0.50	95	100	5.1				70 - 130	30
2,2-Dichloropropane	ND	0.50	94	104	10.1				70 - 130	30
2-Chlorotoluene	ND	0.50	90	98	8.5				70 - 130	30
4-Chlorotoluene	ND	0.50	96	101	5.1				70 - 130	30
Benzene	ND	0.50	95	102	7.1				70 - 130	30
Bromobenzene	ND	0.50	89	97	8.6				70 - 130	30
Bromochloromethane	ND	0.50	95	100	5.1				70 - 130	30
Bromodichloromethane	ND	0.50	97	102	5.0				70 - 130	30
Bromoform	ND	0.50	94	100	6.2				70 - 130	30
Bromomethane	ND	0.50	99	115	15.0				70 - 130	30
Carbon tetrachloride	ND	0.50	91	95	4.3				70 - 130	30
Chlorobenzene	ND	0.50	95	101	6.1				70 - 130	30
Chloroethane	ND	0.50	94	104	10.1				70 - 130	30
Chloroform	ND	0.50	97	106	8.9				70 - 130	30
Chloromethane	ND	0.50	93	101	8.2				70 - 130	30
cis-1,2-Dichloroethene	ND	0.50	93	102	9.2				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	93	100	7.3				70 - 130	30
Dibromochloromethane	ND	0.50	98	103	5.0				70 - 130	30
Dibromomethane	ND	0.50	92	100	8.3				70 - 130	30
Dichlorodifluoromethane	ND	0.50	96	106	9.9				70 - 130	30
Ethylbenzene	ND	0.50	91	100	9.4				70 - 130	30
Hexachlorobutadiene	ND	0.40	96	101	5.1				70 - 130	30
Isopropylbenzene	ND	0.50	92	100	8.3				70 - 130	30
m&p-Xylene	ND	0.50	92	100	8.3				70 - 130	30

QA/QC Data

SDG I.D.: GCC89175

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Methyl t-butyl ether (MTBE)	ND	0.50	97	103	6.0				70 - 130	30
Methylene chloride	ND	0.50	87	98	11.9				70 - 130	30
Naphthalene	ND	0.50	94	100	6.2				70 - 130	30
n-Butylbenzene	ND	0.50	94	101	7.2				70 - 130	30
n-Propylbenzene	ND	0.50	90	99	9.5				70 - 130	30
o-Xylene	ND	0.50	96	103	7.0				70 - 130	30
p-Isopropyltoluene	ND	0.50	94	101	7.2				70 - 130	30
sec-Butylbenzene	ND	0.50	95	104	9.0				70 - 130	30
Styrene	ND	0.50	92	99	7.3				70 - 130	30
tert-Butylbenzene	ND	0.50	93	101	8.2				70 - 130	30
Tetrachloroethene	ND	0.50	89	100	11.6				70 - 130	30
Toluene	ND	0.50	92	99	7.3				70 - 130	30
trans-1,2-Dichloroethene	ND	0.50	94	102	8.2				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	90	95	5.4				70 - 130	30
Trichloroethene	ND	0.50	94	102	8.2				70 - 130	30
Trichlorofluoromethane	ND	0.50	84	90	6.9				70 - 130	30
Trichlorotrifluoroethane	ND	0.50	85	92	7.9				70 - 130	30
Vinyl chloride	ND	0.50	90	97	7.5				70 - 130	30
% 1,2-dichlorobenzene-d4	92	%	102	104	1.9				70 - 130	30
% Bromofluorobenzene	96	%	97	99	2.0				70 - 130	30

Comment:

This batch consists of a blank, LCS and LCSD.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 09, 2019

Tuesday, April 09, 2019

Criteria: CT: GAM, GWP, SWP; NY: DW

State: NY

Sample Criteria Exceedances Report

GCC89175 - ALTAENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC89177	T-COLIQ	Total Coliforms	EPA / 40 CFR 141 DW / 141.63 Biologicals MCLs	1	1	0	1	MPN/100 ml
CC89177	T-COLIQ	Total Coliforms	EPA / 40 CFR 141 DW / 141.63 Biologicals MCLs	1	1	0	1	MPN/100 ml

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** ALTA Environmental

Project Location: NSSC GREENWICH ***Project Number:***

Laboratory Sample ID(s): CC89175-CC89177 ***Sampling Date(s):*** 4/4/2019

List RCP Methods Used (e.g., 8260, 8270, et cetera) None

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?**	☑ Yes ☐ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Tuesday, April 09, 2019

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 09, 2019

SDG I.D.: GCC89175

SDG Comments

The client requested volatiles by 524.2. The RCP narrative is provided at the request of the client.

VOA-524

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM21 04/08/19-1 Jane Li, Chemist 04/08/19

CC89175, CC89176, CC89177

Initial Calibration Evaluation (CHEM21/524_040719):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

524 Method Continuing Calibration Verification (CHEM21/0408_03-524_040719):
Internal standard areas were within 70-130% of the initial calibration with the following exceptions: None.
100% of the target compounds met criteria. The following compounds did not meet minimum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 473987 (CC81946)

CC89175, CC89176, CC89177

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
This batch consists of a blank, LCS and LCSD.

Temperature Narration

The samples were received at 3.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

PHOENIX

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

April 09, 2019

SDG I.D.: GCC89175

The samples were received at 3.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [✓] No [ ]
Coolant: IPK [ ] ICE [✓] No [ ]

CHAIN OF CUSTODY RECORD

Temp 3.2 °C Pg 1 of 1

PHOENIX *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone: (860) 659-6505
[ ] Email: BRIAN@ALTAENV.COM

Customer: ALTA ENVIRONMENTAL CORP
Address: 124 BROADWAY
COLCHESTER CT 06415

Project: NSSC GREENWICH
Report to: BRIAN STRAUB
Invoice to: BRIAN STRAUB

Project P.O: 1064

This section MUST be completed with Bottle Quantities.

Client Sample Information - Identification

Sampler's Signature: Brian Straub Date: 4/4/19

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	WCS BY 524.2	BACTERIA	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
89175	6 BB ROAD RAW	GW	4/4/19	1233	X					2						
89176	6 BB ROAD INTERM			1235	X					2						
89177	6 BB ROAD FINAL			1237	X	X				2						1

Relinquished by:	Accepted by:	Date:	Time:
Brian Straub	Kayla Driscoll	4/4/19	1824

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[✓] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[✓] RCP Cert
[✓] GW Protection
[ ] SW Protection
[✓] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format
[ ] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

State where samples were collected: NY

ALTA ENVIRONMENTAL CORPORATION
LABORATORY DATA QUALITY ASSURANCE/DATA USABILITY EVALUATION FORM

Laboratory Report Number: ~~Other~~ PHOENIX GCC 89175

Instructions: Use check mark or "Y" for Yes; N for "No", NA for not applicable; circle and annotate as warranted.

Data Quality Assessment (DQA): General

Was the Laboratory Certification Form (LCF): received? Y; signed? Y; dated? Y;
with Chain of Custody attached? Y; with all questions answered? Y;
and indicating Reasonable Confidence was attained? Y. VOCS BY 524.2 AND BACTERIA DO NOT HAVE RCP METHODS

Were any significant non-conformances indicated with respect to sample temperature, preservation or holding time? N

DQA: Laboratory Report Package

Were results reported for all analyses requested? Y (Note: PM to track this as draft lab reports arrive)
Were reporting limits (RLs) requested on chain and indicated in report? ✓Yes; __No
Are concentrations reported only above RLs and are RLs below pertinent RSR criteria (spot check)? Y
Are results reported on a dry-weight basis (spot check)? __Yes; ✓NA (e.g. water samples)
Were any dilutions factors (DFs) > 1 used? N If so, are RLs below pertinent RSR criteria, or detections for one or more compounds above criterion (spot ck)? NA
Were surrogate recoveries within range (spot check)? ✓Yes; __No; __NA
Were LCS data reported? ✓Yes; __No, and all within range? ✓Yes; __No; __NA
Were continuing calibration data reported? __Yes; ✓No, and all within range? __Yes; __No; ✓NA
Were data for lab blanks reported? __Yes; ✓No, and with ND results? __Yes; __No; ✓NA
Were data for matrix spike and/or matrix spike dupes reported? __Yes; ✓No,
If so, were the data within range? __Yes; __No; ✓NA
Was a narrative included regarding QC non-conformances? Y (If yes, address in DUE)

DQA: Site-Specific QA/QC

Were site-specific matrix spikes/matrix spike dupes. (MS/MSD) run? N; If no, address in DUE.
If yes, were recoveries within accepted range? __Yes; __Yes, with exceptions (address in DUE); ✓NA
Was RPD w/in. accept. range? ____ (<50% RPD for solids; <30% RPD for aqu.); If no, address in DUE; ✓NA.

Were the following run? equipment blanks N, trip blanks N, other blanks N.
If yes, were any contaminants detected? NA If contamination was detected and/or if these blanks were not run, address in DUE.

Were field duplicates run? N If yes, was RPD within accepted range? NA
(<50% RPD for solids; <30% RPD for aqueous); If no, address in Data Usability Evaluation

DQA: Explanations and Notes

Lab #: PHOENIX GCC 89175

Data Usability Evaluation (DUE): Intended Use of the Data

The data are intended for determining compliance with the RSRs __ (check to acknowledge), except if noted otherwise below: SCREENING FOR POTABLE DRINKING H2O TREATMENT SYSTEM

DUE: Site-Specific QA/QC

If equipment blanks, trip blanks and/or field blanks were not run, any contamination reported for environmental samples is conservatively assumed to derive from the media sampled (i.e., not from cross contamination) ✓ (check to acknowledge), or is in whole or in part attributed to lab contamination (e.g., as associated with detections in lab blanks) ___ (check to acknowledge and explain further)

If field duplicates were not run, the lack of such data for this laboratory package does not adversely affect the usability of the data for its intended purpose, due to the amount and internal consistency of the testing data available for the site (including the available non-project-specific QC data and project-specific QC data that may be available for other samples collected from this site) ✓ (check to acknowledge);
Were field duplicate samples collected for other sampling events at this site? ✓ Yes; ___ No

DUE: Narrative

Evaluation of Common Narrative Comments: (check/circle and annotate as pertinent)

Question No. 4: Addressed in narrative? __ Yes; ✓ No

If yes, some of the QA/QC performance criteria specified in the DEP Reasonable Confidence Protocol documents were not achieved for certain compounds in certain batches of soil samples, and:

A. Laboratory control sample (LCS), MS, MS dupe and/or continuing calibration (CC) is/are high for certain COCs; therefore the results for these compounds may be biased high.
___ Yes (conservative, OK)

B. LCS, MS, MS dupe and/or CC is/are low for certain compounds; therefore the results for these compounds may be biased low. ___ Yes (provide additional information below for each such compound); ___ No

- Of these, based on review of the totality of the soil and/or groundwater quality data available for the site, the compounds listed here are not constituents of concern (COCs) for this site. Therefore, not achieving the QA/QC performance criteria associated with these compounds does not adversely affect the usability of the data for its intended purpose.
__ check to acknowledge and list compounds here.

- Of these, the compounds listed here are on the list of "Poorly Performing Compounds" (PPCs), in Appendix F to the DEP QA/QC DQA and DUE Guidance Document (May 2009) __ check to acknowledge and list compounds here (may also be listed above);

Provide additional usability information for COCs with possible low bias.
___ (check if NA)

Lab #: PHOENIX GCC89175

Question No. 6: Addressed in narrative? ✓Yes; __No CHECKED ON LCF

If yes, analysis for subsets of the method-specific analyte lists were requested based on the site-specific Conceptual Site Model developed by the Project Manager. Use of site-specific analytes does not adversely affect the usability of the reported data for its intended purpose.
✓(check to acknowledge)

Question No. 7: Addressed in narrative? ✓Yes; __No CHECKED ON LCF

If yes, project-specific QC testing was not requested (i.e., MS/MSD). Given the amount and internal consistency of the testing data available for the site, the lack of such data for this laboratory package does not adversely affect the usability of the data for its intended purpose.
✓(check to acknowledge)

Other Questions addressed in narrative? ✓Yes; __No (provide additional information below)

SB- VOCs BY 524.2 AND BACTERIA ARE NOT RCP METHODS

DUE: Other Notes (e.g., for contamination associated with lab blanks and LCF questions answered "No")

DUE: Conclusions

The data in this package are usable for their intended purpose

✓Yes __No

__Yes, with possible exceptions:

(initial and date): BAS 4/10/19

Resolutions (e.g., for possible exceptions)

(initial and date): _____ _____

ALTA Environmental Corporation
RESIDENTIAL SAMPLING RECORD FORM

FILE NO. 1064
SAMPLING DATE: 4/24/19
FIELD PERSONNEL: R STRAUB

CLIENT: NYSC
PROJECT: PUBLIC DW SAMPLING
LOCATION: GREENWICH

WEATHER — Temp (deg F) <20 - 20 - 30 - 40 - 50 - 60 - 70 - 80 - 90 - >90

			WIND CONDITIONS		GROUND SURFACE CONDITIONS	
Sunny	Overcast	Dry	None to Little	Mod. to Heavy	Dry	Standing Water
Partly cloudy	Heavy Clouds	Slightly humid	Little to Mod.		Damp	Snow:____ inches
Rain (Light/Heavy)		Mod. humid	Steady	Variable	Wet	Other:____
Sleet (Light/Heavy)		Very humid	Direction From:____			
Snow (Light/Heavy)						

WATER SAMPLING INFORMATION (a)

SAMPLE LOCATION/ DESIGNATION	SAMPLING LOCATION/ FLOWRATE & TIMES		SAMPLE DESCRIPTION/ COMMENTS	SAMPLING DEVICE	CONTAINERS
6 RR ROAD FINAL		TIME	KITCHEN SINK	GLOVED HAND	BACTERIA
	Purging Started:	1228			
	Purging Stopped:	1302			
	Sample:	1303			
		TIME			
	Purging Started:				
	Purging Stopped:				
	Sample:				
		TIME			
	Purging Started:				
	Purging Stopped:				
	Sample:				
		TIME			
	Purging Started:				
	Purging Stopped:				
	Sample:				
		TIME			
	Purging Started:				
	Purging Stopped:				
	Sample:				
		TIME			
	Purging Started:				
	Purging Stopped:				
	Sample:				

REMARKS:
NEW ULTRAVIOLET LIGHT TREATMENT SYSTEM INSTALLED BY FOLEYS PUMP ON 4/23/19

Notes: MICR PURGED H2O SYSTEM MULTIPLE TIMES AT 30 MIN INTERVALS RESPONSE SAMPLING

a. All non-disposable sampling devices are cleaned using the following sequence, unless otherwise noted: non-phosphate detergent wash, tap water rinse, methanol wipe or rinse, distilled or deionized water rinse, paper towel or air dry.

PHOENIX
Environmental Laboratories, Inc.

Friday, April 26, 2019

Attn:
ALTA Environmental
121 Broadway
Colchester, CT 06415

Project ID: NSSC-GREENWICH
SDG ID: GCD00564
Sample ID#s: CD00564

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

April 26, 2019

SDG I.D.: GCD00564

Project ID: NSSC-GREENWICH

Client Id	Lab Id	Matrix
6 BB ROAD FINAL	CD00564	DRINKING WATER

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 26, 2019

FOR: Attn:
ALTA Environmental
121 Broadway
Colchester, CT 06415

Sample Information		Custody Information		Date	Time
Matrix:	DRINKING WATER	Collected by:		04/24/19	13:03
Location Code:	ALTAENV	Received by:	SW	04/24/19	15:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD00564
Phoenix ID: CD00564

Project ID: NSSC-GREENWICH
Client ID: 6 BB ROAD FINAL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	Absent	0	/100 mls	1	04/24/19 18:10	MLT/MLT	SM9223B-97
Total Coliforms	Absent	0	/100 mls	1	04/24/19 18:10	MLT/MLT	SM9223B-04

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
April 26, 2019
Reviewed and Released by: Rashmi Makol, Project Manager

Friday, April 26, 2019

Criteria: CT: DW

State: CT

Sample Criteria Exceedances Report

GCD00564 - ALTAENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. *Client:* ALTA Environmental

Project Location: NSSC-GREENWICH *Project Number:*

Laboratory Sample ID(s): CD00564 *Sampling Date(s):* 4/24/2019

List RCP Methods Used (e.g., 8260, 8270, et cetera) None

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	*VPH and EPH methods only:* Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☐ Yes ☑ No ☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Friday, April 26, 2019

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 26, 2019

SDG I.D.: GCD00564

SDG Comments

No RCP analyses are included with this report. The RCP narrative is provided at the request of the client.

Temperature Narration

The samples were received at 1.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 6° C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone: (860) 639-6505
[X] Email: BRIAN@ALTAENV.COM

Customer: ALTA ENVIRONMENTAL CORP
Address: 121 BROADWAY
COLCHESTER CT 06415

Project: NSSC - GREENWICH
Report to: BRIAN STRAUB
Invoice to: BRIAN STRAUB

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Brian Straub Date: 4/24/19

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	BACTERIA	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
00564	6 BB ROAD FINAL	DW	4/24/19	1303	X										1

Relinquished by:	Accepted by:	Date:	Time:
Brian Straub	Kaylee Bennett	4/24/19	1516

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[X] RCP Cert
[X] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: NY

Data Format
[ ] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

ALTA ENVIRONMENTAL CORPORATION
LABORATORY DATA QUALITY ASSURANCE/DATA USABILITY EVALUATION FORM

Laboratory Report Number: ~~ARI#~~ MICROBAC GCD00564

Instructions: Use check mark or "Y" for Yes; N for "No", NA for not applicable; circle and annotate as warranted.

Data Quality Assessment (DQA): General

Was the Laboratory Certification Form (LCF): received? Y; signed? Y; dated? Y;
with Chain of Custody attached? Y; with all questions answered? Y;
and indicating Reasonable Confidence was attained? Y. BACTERIA DOES NOT HAVE AN RLP METHOD

Were any significant non-conformances indicated with respect to sample temperature, preservation or holding time? N

DQA: Laboratory Report Package

Were results reported for all analyses requested? Y (Note: PM to track this as draft lab reports arrive)
Were reporting limits (RLs) requested on chain and indicated in report? ✓Yes; __No
Are concentrations reported only above RLs and are RLs below pertinent RSR criteria (spot check)? Y
Are results reported on a dry-weight basis (spot check)? __Yes; ✓NA (e.g. (water) samples)
Were any dilutions factors (DFs) > 1 used? N If so, are RLs below pertinent RSR criteria, or detections for one or more compounds above criterion (spot ck)? N/A
Were surrogate recoveries within range (spot check)? __Yes; ✓No; __NA
Were LCS data reported? __Yes; ✓No, and all within range? __Yes; __No; ✓NA
Were continuing calibration data reported? __Yes; ✓No, and all within range? __Yes; __No; ✓NA
Were data for lab blanks reported? __Yes; ✓No, and with ND results? __Yes; __No; ✓NA
Were data for matiix spike and/or matrix spike dupes reported? __Yes; ✓No,
If so, were the data within range? __Yes; __No; ✓NA
Was a narrative included regarding QC non-conformances? N (If yes, address in DUE)

DQA: Site-Specific QA/QC

Were site-specific matrix spikes/matrix spike dupes. (MS/MSD) run? N; If no, address in DUE.
If yes, were recoveries within accepted range? __Yes; __Yes, with exceptions (address in DUE); ✓NA.
Was RPD w/in. accept. range? ____ (<50% RPD for solids; <30% RPD for aqu.); If no, address in DUE; ✓NA.

Were the following run? equipment blanks N, trip blanks N, other blanks N.
If yes, were any contaminants detected? N/A If contamination was detected and/or if these blanks were not run, address in DUE.

Were field duplicates run? N If yes, was RPD within accepted range? N/A
(<50% RPD for solids; <30% RPD for aqueous); If no, address in Data Usability Evaluation

DQA: Explanations and Notes

Lab #: MICROBAC GCD00569

Data Usability Evaluation (DUE): Intended Use of the Data

The data are intended for determining compliance with the RSRs __ (check to acknowledge), except if noted otherwise below: SCREENING FOR POTABLE DRINKING H2O TREATMENT SYSTEM

DUE: Site-Specific QA/QC

If equipment blanks, trip blanks and/or field blanks were not run, any contamination reported for environmental samples is conservatively assumed to derive from the media sampled (i.e., not from cross contamination) ✓ (check to acknowledge), or is in whole or in part attributed to lab contamination (e.g., as associated with detections in lab blanks) ___ (check to acknowledge and explain further)

If field duplicates were not run, the lack of such data for this laboratory package does not adversely affect the usability of the data for its intended purpose, due to the amount and internal consistency of the testing data available for the site (including the available non-project-specific QC data and project-specific QC data that may be available for other samples collected from this site) ✓ (check to acknowledge);
Were field duplicate samples collected for other sampling events at this site? ✓ Yes; ___ No

DUE: Narrative

Evaluation of Common Narrative Comments: (check/circle and annotate as pertinent)

Question No. 4: Addressed in narrative? __ Yes; ✓ No

If yes, some of the QA/QC performance criteria specified in the DEP Reasonable Confidence Protocol documents were not achieved for certain compounds in certain batches of soil samples, and:

A. Laboratory control sample (LCS), MS, MS dupe and/or continuing calibration (CC) is/are high for certain COCs; therefore the results for these compounds may be biased high.
___ Yes (conservative, OK)

B. LCS, MS, MS dupe and/or CC is/are low for certain compounds; therefore the results for these compounds may be biased low. ___ Yes (provide additional information below for each such compound); ___ No

- Of these, based on review of the totality of the soil and/or groundwater quality data available for the site, the compounds listed here are not constituents of concern (COCs) for this site. Therefore, not achieving the QA/QC performance criteria associated with these compounds does not adversely affect the usability of the data for its intended purpose.
__ check to acknowledge and list compounds here.

- Of these, the compounds listed here are on the list of "Poorly Performing Compounds" (PPCs), in Appendix F to the DEP QA/QC DQA and DUE Guidance Document (May 2009) __ check to acknowledge and list compounds here (may also be listed above);

Provide additional usability information for COCs with possible low bias.
___ (check if NA)

Lab #: MICROBAC GCP00564

Question No. 6: Addressed in narrative? ✓Yes; __No CHECKED NO ON LCF

If yes, analysis for subsets of the method-specific analyte lists were requested based on the site-specific Conceptual Site Model developed by the Project Manager. Use of site-specific analytes does not adversely affect the usability of the reported data for its intended purpose.
✓(check to acknowledge) NO RCP METHOD FOR BACTERIA

Question No. 7: Addressed in narrative? __Yes; ✓No

If yes, project-specific QC testing was not requested (i.e., MS/MSD). Given the amount and internal consistency of the testing data available for the site, the lack of such data for this laboratory package does not adversely affect the usability of the data for its intended purpose.
__(check to acknowledge)

Other Questions addressed in narrative? ✓Yes; __No (provide additional information below)

SA - CT GW PROTECTION WAS REQUESTED ON CHAIN OF CUSTODY

DUE: Other Notes (e.g., for contamination associated with lab blanks and LCF questions answered "No")

DUE: Conclusions

The data in this package are usable for their intended purpose

✓Yes __No

__Yes, with possible exceptions:

(initial and date): BAS 5/1/19

Resolutions (e.g., for possible exceptions)

(initial and date): _____ _____