



June 17, 2020

Ms. Raena C. Blumenthal  
Director, Parks & Recreation  
Town of Coventry  
1277 Main Street  
Coventry, Rhode Island 02816

Sent Via Email: [rblumenthal@coventryri.org](mailto:rblumenthal@coventryri.org)

**RE: Tiogue Lake  
Surface Water Sampling Report  
Coventry, Rhode Island  
F.W. Webb/AEG Project No. 1832**

Dear Ms. Blumenthal:

Alliance Environmental Group / An F.W. Webb Company (F.W. Webb / AEG) is pleased to submit this surface water sampling report for Tiogue Lake, completed on behalf of the Town of Coventry, for the quarterly monitoring period of April through June 2020.

### **BACKGROUND**

The Town of Coventry (the Town) is a Potentially Responsible Party (PRP) in association with the former Coventry Landfill (CLF). The Town agreed to sample Tiogue Lake on a quarterly basis during implementation of the CLF closure activities, until the placement of the final impermeable cap. F.W. Webb / AEG has sampled Tiogue Lake on a generally quarterly basis since 2016. At the time of this submittal, the cap has been installed and final turf repairs/landscaping activities are underway.

### **CURRENT SAMPLING EVENT**

The 2<sup>nd</sup> quarter 2020 sampling was conducted on June 9, 2020. During this event, F.W. Webb / AEG representatives collected three surface water samples at Tiogue Lake (identified as Surface Water 1 through Surface Water 3), replicating the collection points from previous sampling events.

The surface water samples were submitted to ESS Laboratory of Cranston, Rhode Island, a Rhode Island certified laboratory, for analysis of total and dissolved lead via United States Environmental Protection Agency (USEPA) Method 6020A. The surface water sampling results are summarized in Table 1 (located in Attachment 1). A copy of the ESS Laboratory analytical report is included as Attachment 2.

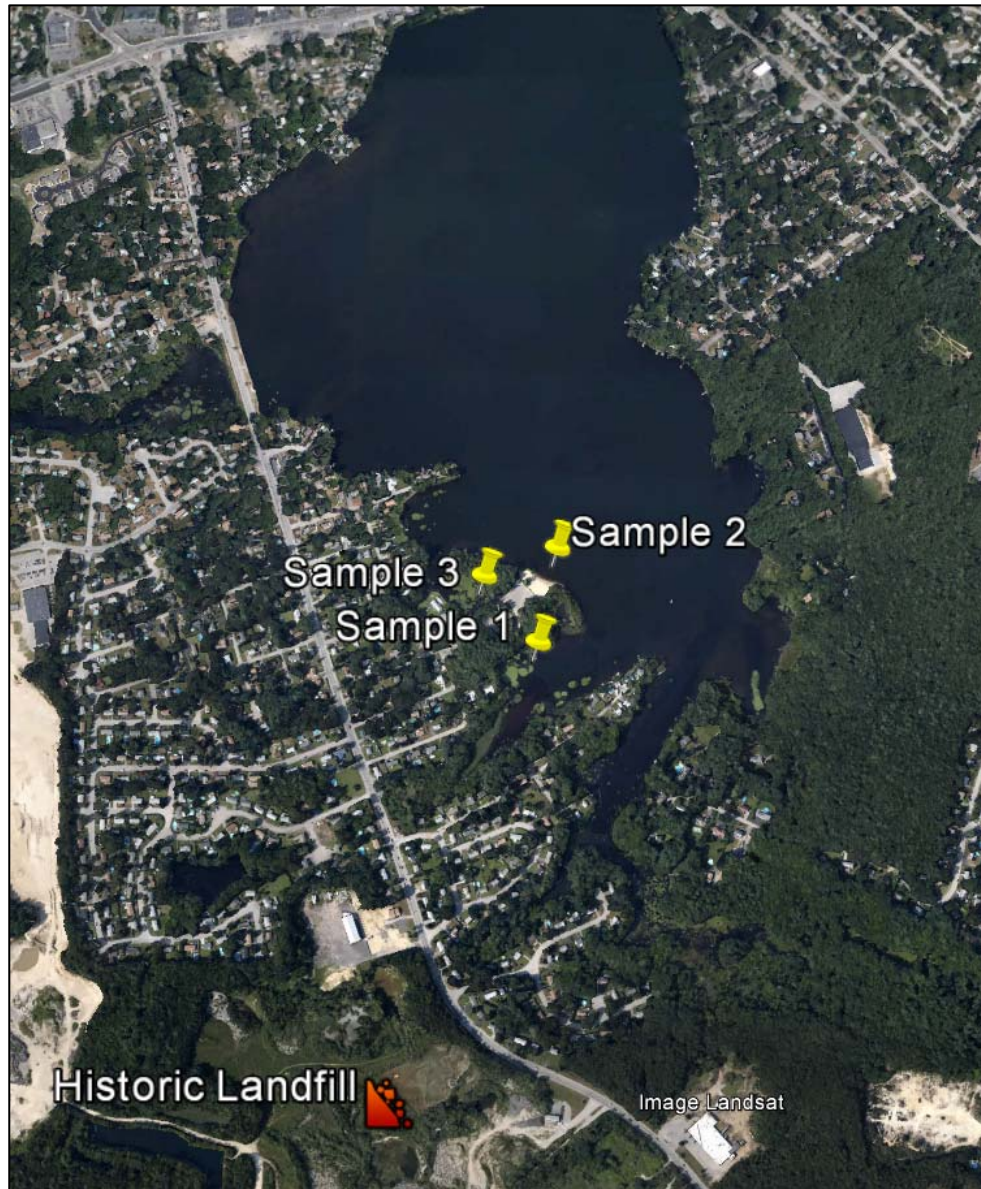


Figure 1 – Approximate Surface Water Sampling Locations

### **SURFACE WATER SAMPLING RESULTS**

According to the Rhode Island Department of Environmental Management (RIDEM), Tiogue Lake (Water Body ID No. RI0006014L-02) is classified as Surface Water B (partial use designation) and a Warmwater Fishery. The RIDEM Water Quality Regulations, as amended in May 2009, contain the equations and criteria used to calculate the Aquatic Life Fresh Water Acute and Chronic Exposure Concentrations. There are no criteria recommendations for human health regarding the consumption of aquatic organisms impacted with lead.

In order to utilize the equations and criteria promulgated in the Water Quality Regulations, F.W. Webb/AEG obtained an alkalinity hardness value of 22.7 milligrams per

liter (mg/L) (i.e., the mean yearly concentration as calcium carbonate (CaCO<sub>3</sub>) for Tiogue Lake<sup>1</sup>). The conversion factor (CF) used to derive the aquatic life freshwater acute and chronic exposure was:  $CF = 1.46203 - [(\ln H) \times 0.145712]$ ; where  $[\ln H]$  = natural log of hardness measured as CaCO<sub>3</sub>. In accordance with the Water Quality Regulations, when an ambient hardness of less than 25 mg/L is used to establish criteria for lead, the hardness dependent CF should not exceed 1. Since the calculated CF was 1.0071, a CF value of 1.0 was used for the calculation.

F.W. Webb/AEG also compared the dissolved lead concentrations against the USEPA Lowest National Ambient Water Quality Criteria (NAWQC). USEPA's compilation of national recommended water quality criteria contains the recommended water quality criteria for the protection of aquatic life and human health in surface water for approximately 150 pollutants. These criteria are published pursuant to Section 304(a) of the Clean Water Act (CWA).

The ESS Laboratory analytical results for the surface water samples collected by F.W. Webb/AEG on June 9, 2020 indicated that the total and dissolved lead concentrations in each of the three samples were below the laboratory reporting limit of 0.5 micrograms per liter (µg/L). As such, no exceedances of applicable criteria were detected.

#### **SAMPLING SCHEDULE**

Per recent discussion with Town of Coventry personnel, F.W. Webb/AEG will continue to sample Tiogue Lake on a quarterly basis in 2020 to further evaluate total and dissolved lead concentrations following the recent landfill capping activities.

If you have any questions or comments, please contact the undersigned at 401-732-7600.

Sincerely,

***Alliance Environmental Group / An F.W. Webb Company***



Lauren Main  
Sr. Geologist



Joel Walcott, PE  
Sr. Principal Engineer

cc: Mr. Ed Warzycha, Interim Town Manager  
Ms. Abby Pimentel, Coventry Parks and Recreation

<sup>1</sup> <http://cels.uri.edu/docslink/ww/14WebFiles/14Alkalinity.pdf>

# ATTACHMENT 1

*Data Summary Table*

**Table 1**  
**Surface Water Sampling Results**  
**Tiogue Lake - Coventry, Rhode Island**

	Surface Water Sample 1	Surface Water Sample 2	Surface Water Sample 3	Aquatic Life Criteria Freshwater Acute	Aquatic Life Criteria Freshwater Chronic	Lowest NAWQC
<b>Sampling Date 6/9/16 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	1.2	<1.0	3.5	NS	NS	NS
Dissolved Lead	<0.50	<0.50	<b>1.2</b>	12	0.5	0.5
<b>Sampling Date 7/1/16 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	<1.0	1.2	<1.0	NS	NS	NS
Dissolved Lead	<0.50	<0.50	<0.50	12	0.5	0.5
<b>Sampling Date 8/24/16 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	<1.0	<1.0	1.4	NS	NS	NS
Dissolved Lead	<0.50	<0.50	<0.50	12	0.5	0.5
<b>Sampling Date 11/30/16 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	1.4	1.9	92	NS	NS	NS
Dissolved Lead	0.55	<0.40	<0.40	12	0.5	0.5
<b>Sampling Date 3/9/17 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	0.73	1.73	0.74	NS	NS	NS
Dissolved Lead	<0.50	<0.50	<0.50	12	0.5	0.5
<b>Sampling Date 6/2/17 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	<1.0	<1.0	1.1	NS	NS	NS
Dissolved Lead	<0.5	<0.5	<0.5	12	0.5	0.5
<b>Sampling Date 9/15/17 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	<1.0	<1.0	<1.0	NS	NS	NS
Dissolved Lead	<0.5	<0.5	<0.5	12	0.5	0.5
<b>Sampling Date 1/3/18 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	N/A	1.1	N/A	NS	NS	NS
Dissolved Lead	N/A	<b>1.1</b>	N/A	12	0.5	0.5
<b>Sampling Date 4/11/18 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	0.58	0.61	0.67	NS	NS	NS
Dissolved Lead	<0.5	<0.5	<0.5	12	0.5	0.5
<b>Sampling Date 7/11/18 - Total and Dissolved Lead (µg/L) *</b>						
Total Lead	1.9	<0.5	0.64	NS	NS	NS
Dissolved Lead	<0.5	<b>1.2</b>	<b>0.78</b>	12	0.5	0.5
<b>Sampling Date 8/7/18 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	<0.1	<0.1	<0.1	NS	NS	NS
Dissolved Lead	<1.0	<1.0	<1.0	12	0.5	0.5
<b>Sampling Date 10/31/18 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	1.0	0.5	0.5	NS	NS	NS
Dissolved Lead	<0.4	<0.4	<b>0.6</b>	12	0.5	0.5
<b>Sampling Date 3/28/19 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	1.4	0.5	0.4	NS	NS	NS
Dissolved Lead	<0.5	<0.5	<0.5	12	0.5	0.5
<b>Sampling Date 6/13/19 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	0.7	0.6	0.6	NS	NS	NS
Dissolved Lead	<0.5	<0.5	<0.5	12	0.5	0.5
<b>Sampling Date 9/25/19 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	<0.5	<0.5	<0.5	NS	NS	NS
Dissolved Lead	<0.5	<0.5	<0.5	12	0.5	0.5

**Table 1**  
**Surface Water Sampling Results**  
**Tiogue Lake - Coventry, Rhode Island**

	Surface Water Sample 1	Surface Water Sample 2	Surface Water Sample 3	Aquatic Life Criteria Freshwater Acute	Aquatic Life Criteria Freshwater Chronic	Lowest NAWQC
<b>Sampling Date 12/31/19 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	N/A	0.6	0.7	NS	NS	NS
Dissolved Lead	N/A	<0.5	<0.5	12	0.5	0.5
<b>Sampling Date 2/24/20 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	N/A	0.4	0.4	NS	NS	NS
Dissolved Lead	N/A	<1.0	<1.0	12	0.5	0.5
<b>Sampling Date 6/9/20 - Total and Dissolved Lead (µg/L)</b>						
Total Lead	<0.5	<0.5	<0.5	NS	NS	NS
Dissolved Lead	<0.5	<0.5	<0.5	12	0.5	0.5

Notes:  
**NS = No Criteria Established**  
**NAWQC = National Ambient Water Quality Criteria**  
**Bold = Aquatic Life Criteria Freshwater Chronic and Lowest NAWQC Exceedance**  
*Italics = Aquatic Life Criteria Freshwater Acute Exceedance*  
**N/A = No Sample Collected**  
**\* = Results are believed to be erroneous based on discussion with laboratory - resampling was conducted the following month.**

## **ATTACHMENT 2**

*Laboratory Analytical Report*



*CERTIFICATE OF ANALYSIS*

Joel Walcott  
Alliance Environmental Group  
100 Jefferson Boulevard  
Warwick, RI 02888

**RE: Tiogue Lake (1832)**  
**ESS Laboratory Work Order Number: 20F0344**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard  
Laboratory Director

**REVIEWED**

*By ESS Laboratory at 2:55 pm, Jun 16, 2020*

**Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.





*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake

ESS Laboratory Work Order: 20F0344

**SAMPLE RECEIPT**

The following samples were received on June 09, 2020 for the analyses specified on the enclosed Chain of Custody Record.

<b>Lab Number</b>	<b>Sample Name</b>	<b>Matrix</b>	<b>Analysis</b>
20F0344-01	Surface Water - 1	Surface Water	6020A
20F0344-02	Surface Water - 2	Surface Water	6020A
20F0344-03	Surface Water - 3	Surface Water	6020A



*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake

ESS Laboratory Work Order: 20F0344

**PROJECT NARRATIVE**

**No unusual observations noted.**

**End of Project Narrative.**

**DATA USABILITY LINKS**

*To ensure you are viewing the most current version of the documents below, please clear your internet cookies for [www.ESSLaboratory.com](http://www.ESSLaboratory.com). Consult your IT Support personnel for information on how to clear your internet cookies.*

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake

ESS Laboratory Work Order: 20F0344

**CURRENT SW-846 METHODOLOGY VERSIONS**

**Analytical Methods**

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

**Prep Methods**

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake  
Client Sample ID: Surface Water - 1  
Date Sampled: 06/09/20 10:40  
Percent Solids: N/A

ESS Laboratory Work Order: 20F0344  
ESS Laboratory Sample ID: 20F0344-01  
Sample Matrix: Surface Water  
Units: ug/L

Extraction Method: 3005A/200.7

**Dissolved Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	ND (0.5)		6020A		5	NAR	06/11/20 12:22	100	10	DF00949



*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake  
Client Sample ID: Surface Water - 1  
Date Sampled: 06/09/20 10:40  
Percent Solids: N/A

ESS Laboratory Work Order: 20F0344  
ESS Laboratory Sample ID: 20F0344-01  
Sample Matrix: Surface Water  
Units: ug/L

Extraction Method: 3005A/200.7

**Total Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	ND (0.5)		6020A		1	NAR	06/10/20 22:34	100	10	DF00949



*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake  
Client Sample ID: Surface Water - 2  
Date Sampled: 06/09/20 10:30  
Percent Solids: N/A

ESS Laboratory Work Order: 20F0344  
ESS Laboratory Sample ID: 20F0344-02  
Sample Matrix: Surface Water  
Units: ug/L

Extraction Method: 3005A/200.7

**Dissolved Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	ND (0.5)		6020A		5	NAR	06/11/20 12:27	100	10	DF00949



*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake  
Client Sample ID: Surface Water - 2  
Date Sampled: 06/09/20 10:30  
Percent Solids: N/A

ESS Laboratory Work Order: 20F0344  
ESS Laboratory Sample ID: 20F0344-02  
Sample Matrix: Surface Water  
Units: ug/L

Extraction Method: 3005A/200.7

**Total Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	ND (0.5)		6020A		1	NAR	06/10/20 22:51	100	10	DF00949



*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake  
Client Sample ID: Surface Water - 3  
Date Sampled: 06/09/20 10:50  
Percent Solids: N/A

ESS Laboratory Work Order: 20F0344  
ESS Laboratory Sample ID: 20F0344-03  
Sample Matrix: Surface Water  
Units: ug/L

Extraction Method: 3005A/200.7

**Dissolved Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	ND (0.5)		6020A		5	NAR	06/11/20 12:33	100	10	DF00949





*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake  
Client Sample ID: Surface Water - 3  
Date Sampled: 06/09/20 10:50  
Percent Solids: N/A

ESS Laboratory Work Order: 20F0344  
ESS Laboratory Sample ID: 20F0344-03  
Sample Matrix: Surface Water  
Units: ug/L

Extraction Method: 3005A/200.7

**Total Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	ND (0.5)		6020A		1	NAR	06/10/20 23:07	100	10	DF00949



CERTIFICATE OF ANALYSIS

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake

ESS Laboratory Work Order: 20F0344

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

Dissolved Metals

**Batch DF00949 - 3005A/200.7**

**Blank**

Lead	ND	0.5	ug/L							
------	----	-----	------	--	--	--	--	--	--	--

**Blank**

Lead	ND	0.5	ug/L							
------	----	-----	------	--	--	--	--	--	--	--

**LCS**

Lead	47.6	2.5	ug/L	50.00		95	80-120			
------	------	-----	------	-------	--	----	--------	--	--	--

**LCS Dup**

Lead	43.7	2.5	ug/L	50.00		87	80-120	8	20	
------	------	-----	------	-------	--	----	--------	---	----	--

Total Metals

**Batch DF00949 - 3005A/200.7**

**Blank**

Lead	ND	0.5	ug/L							
------	----	-----	------	--	--	--	--	--	--	--

**LCS**

Lead	47.6	2.5	ug/L	50.00		95	80-120			
------	------	-----	------	-------	--	----	--------	--	--	--

**LCS Dup**

Lead	43.7	2.5	ug/L	50.00		87	80-120	8	20	
------	------	-----	------	-------	--	----	--------	---	----	--

**Duplicate Source: 20F0344-01**

Lead	0.4	0.5	ug/L		0.3			10	20	
------	-----	-----	------	--	-----	--	--	----	----	--

**Duplicate Source: 20F0344-02**

Lead	0.4	0.5	ug/L		0.5			14	20	
------	-----	-----	------	--	-----	--	--	----	----	--

**Matrix Spike Source: 20F0344-01**

Lead	45.9	2.5	ug/L	50.00	ND	92	75-125			
------	------	-----	------	-------	----	----	--------	--	--	--

**Matrix Spike Source: 20F0344-02**

Lead	57.3	2.5	ug/L	50.00	ND	115	75-125			
------	------	-----	------	-------	----	-----	--------	--	--	--



*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake

ESS Laboratory Work Order: 20F0344

**Notes and Definitions**

- U Analyte included in the analysis, but not detected
- D Diluted.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



*CERTIFICATE OF ANALYSIS*

Client Name: Alliance Environmental Group  
Client Project ID: Tiogue Lake

ESS Laboratory Work Order: 20F0344

**ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS**

**ENVIRONMENTAL**

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

[http://www.ct.gov/dph/lib/dph/environmental\\_health/environmental\\_laboratories/pdf/OutOfStateCommercialLaboratories.pdf](http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf)

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

[http://datamine2.state.nj.us/DEP\\_OPRA/OpraMain/pi\\_main?mode=pi\\_by\\_site&sort\\_order=PI\\_NAMEA&Select+a+Site:=58715](http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715)

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

## ESS Laboratory Sample and Cooler Receipt Checklist

Client: Alliance Environmental Group - ML

ESS Project ID: 20F0344  
 Date Received: 6/9/2020  
 Project Due Date: 6/16/2020  
 Days for Project: 5 Day

Shipped/Delivered Via: Client

- 1. Air bill manifest present?  No  
Air No.: NA
- 2. Were custody seals present?  No
- 3. Is radiation count <100 CPM?  Yes
- 4. Is a Cooler Present?  Yes  
Temp: 3 Iced with: Ice
- 5. Was COC signed and dated by client?  Yes

- 6. Does COC match bottles?  Yes
- 7. Is COC complete and correct?  Yes
- 8. Were samples received intact?  Yes
- 9. Were labs informed about short holds & rushes?  Yes /  No /  NA
- 10. Were any analyses received outside of hold time?  Yes /  No 6/4/20

11. Any Subcontracting needed? Yes  No  
 ESS Sample IDs: \_\_\_\_\_  
 Analysis: \_\_\_\_\_  
 TAT: \_\_\_\_\_

12. Were VOAs received? Yes  No  
 a. Air bubbles in aqueous VOAs? Yes  No  
 b. Does methanol cover soil completely? Yes / No /  NA

13. Are the samples properly preserved?  Yes / No  
 a. If metals preserved upon receipt: Date: \_\_\_\_\_ Time: \_\_\_\_\_ By: \_\_\_\_\_  
 b. Low Level VOA vials frozen: Date: \_\_\_\_\_ Time: \_\_\_\_\_ By: \_\_\_\_\_

Sample Receiving Notes:

\_\_\_\_\_

14. Was there a need to contact Project Manager? Yes /  No  
 a. Was there a need to contact the client? Yes  No  
 Who was contacted? \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ By: \_\_\_\_\_

\_\_\_\_\_

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	51490	Yes	N/A	Yes	500 mL Poly	HNO3	
1	51493	Yes	N/A	Yes	500 mL Poly	NP	
2	51491	Yes	N/A	Yes	500 mL Poly	HNO3	
2	51494	Yes	N/A	Yes	500 mL Poly	NP	
3	51492	Yes	N/A	Yes	500 mL Poly	HNO3	
3	51495	Yes	N/A	Yes	500 mL Poly	NP	

**2nd Review**

Were all containers scanned into storage/lab?

- Are barcode labels on correct containers?
- Are all Flashpoint stickers attached/container ID # circled?
- Are all Hex Chrome stickers attached?
- Are all QC stickers attached?
- Are VOA stickers attached if bubbles noted?

Initials: AG  
 Yes / No  
 Yes / No /  NA  
 Yes / No /  NA  
 Yes / No /  NA  
 Yes / No /  NA

Completed By: Amber Garcia  
 Reviewed By: [Signature]

Date & Time: 6/9/20 14:43  
 Date & Time: 6/9/20 14:59

# ESS Laboratory Sample and Cooler Receipt Checklist

Client: Alliance Environmental Group - ML

ESS Project ID: 20F0344

Date Received: 6/9/2020

Delivered  
By:

[Signature]

6/9/20 1459



185 Frances Avenue  
 Cranston, RI 02921  
 Phone: 401-461-7181  
 Fax: 401-461-4486  
 www.esslaboratory.com

**CHAIN OF CUSTODY**

ESS Lab # 20FO344 Page 1 of 1

**ELECTRONIC DELIVERABLES (Final Reports are PDF)**

Limit Checker     State Forms     EQUIS  
 Excel     Hard Copy     Enviro Data  
 CLP-Like Package     Other (Specify) →

Turn Time  > 5  5  4  3  2  1  Same Day

Regulatory State: Rhode Island Criteria: \_\_\_\_\_

Is this project for any of the following?:

CT RCP     MA MCP     RGP     Permit     401 WQ

**CLIENT INFORMATION**

Client: Alliance Environmental  
 Address: 100 Jefferson Blvd Group  
Warwick, RI 02888  
 Phone: 401-732-7600  
 Email Distribution List: joel.walcott@fwwebb.com

**PROJECT INFORMATION**

Project Name: Tioque Lake  
 Project Location: Coventry, RI  
 Project Number: 1832  
 Project Manager: Joel Walcott  
 Bill to: \_\_\_\_\_  
 PO#: 113-02651067  
 Quote#: \_\_\_\_\_

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

Total Lead	Dissolved Lead																					

Total Number of Bottles

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID
1	6/9/20	10:40	Grab	Surface water	surface water - 1
2	6/9/20	10:30	Grab	Surface water	surface water - 2
3	6/9/20	10:50	Grab	Surface water	surface water - 3

P	P																					
5	5																					
4	1																					

Container Type: AC-Air Cassette    AG-Amber Glass    B-BOD Bottle    C-Cubitainer    J-Jar    O-Other    P-Poly    S-Sterile    V-Vial

Container Volume: 1-100 mL    2-2.5 gal    3-250 mL    4-300 mL    5-500 mL    6-1L    7-VOA    8-2 oz    9-4 oz    10-8 oz    11-Other\*

Preservation Code: 1-Non Preserved    2-HCl    3-H2SO4    4-HNO3    5-NaOH    6-Methanol    7-Na2S2O3    8-ZnAce, NaOH    9-NH4Cl    10-DI H2O    11-Other\*

Sampled by: L. Main      Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only

Cooler Temperature (°C): 30  
Ice

Comments: \* Please specify "Other" preservative and containers types in this space

0.5 mg/L detection limit is required  
Dissolved metals samples need to be lab filtered

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration

Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
<u>[Signature]</u>	<u>6/9/20</u>	<u>14:10</u>	<u>[Signature]</u>				