

1ST SEMI-ANNUAL VRP STATUS REPORT

FORMER SILVERSTEIN'S CLEANERS SITE

HSI #10517

2716 WASHINGTON ROAD

AUGUSTA, RICHMOND COUNTY, GEORGIA

PREPARED FOR:

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SEPTEMBER 1, 2017

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SECTION 1.0

PROFESSIONAL GEOLOGIST CERTIFICATION

I certify under penalty of law that this status report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional geologist who is registered with the Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

CARRIE L. WILLIAMS, P.G. #1780

Printed Name/P.G. Number

SEPTEMBER 1, 2017

Date



SECTION 2.0 INTRODUCTION

American Environmental & Construction Services, Inc. (AECS) has prepared this Voluntary Remediation Program (VRP) Semi-Annual Status Report (Status Report) for the Former Silverstein's Cleaners Site (Site or Property) located at 2716 (f/k/a 2704) Washington Road, Augusta, Richmond County. The Property is currently listed on the Georgia Hazardous Site Inventory (HSI) as Site Number 10517.

In December 2015, a Voluntary Investigation and Remediation Plan Application (VIRP) for the Site was submitted to the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program. On November 28, 2016 an Addendum to the VIRP was submitted to EPD requesting that Tax Parcel 013-0-026-00-0 (the former Frohman property) be added as a Qualifying Property. On March 1, 2017, EPD approved the VIRP and subsequent Addendum with comments and entered the Site into the VRP. The four (4) qualifying properties enrolled in the VRP are Richmond County tax parcel IDs: 013-0-025-01-0 (2716 Washington Drive), 019-0-004-00-0 (319 Heath Drive), 019-0-024-00-0 (313 Berkman Road), and 013-0-026-00-0 (2702 Washington Road) as shown in **Figure 1**.

This Status Report covers the activities performed at the Property from March 1, 2017 – August 31, 2017 (Report Period). In addition, this Report also provides details of certain components of the VIRP that were implemented prior to March 1, 2017, including soil blending using in-situ chemical oxidation (ISCO), reinstallation of monitoring wells destroyed during deep soil remediation activities and ensuing construction activities, installation of new monitoring wells for delineation purposes, and conduct of a site-wide groundwater sampling.

2.1 VRP Comment Letter – Responses

Several comments provided in the March 1, 2017 Comment Letter on the VRP Application requested specific information be provided in the first semi-annual status report submittal. Only comments relevant to this submittal are addressed herein; with all other comments and responses to be provided in the Compliance Status Report. The March 1, 2017 Comment Letter is presented in its entirety in **Appendix A**. The following section provides EPD's comments in italics followed by our responses:

EPD Comment 1: *Please clearly identify the qualifying VRP Properties by either outlining or shading the properties in color on the 1 inch = 254 ft. scaled tax plat in Appendix A of the Voluntary Investigation and Remediation Plan (VIRP) in the first VRP Semi-Annual Progress Report.*

Response: The figure from Appendix A of the VIRP has been updated to incorporate Richmond

County Tax Parcel ID 013-0-026-00-0 (i.e., the former Frohman property) as a Qualifying Property. The updated figure is presented in **Figure 1** of this document.

EPD Comment 2. *All regulated substances listed in Appendix I of the Rules for Hazardous Site Response (Rules) historically detected in soil or groundwater above background levels, or regulated degradation products of another detected regulated substance (even if not currently detected), are constituents of concern (COC) subject to delineation and cleanup requirements pursuant to the Act.*

- a. *Please update the list of regulated substances in Section 4.0 of the VIRP for groundwater at the "site" to include total trihalomethanes [which are regulated in addition to the individual trihalomethanes historically detected at the site (chloroform and bromoform)], 2-butanone (MEK), and bromomethane*

Response: An updated list of regulated substances for groundwater at the site is provided in **Appendix B** of this Report.

- b. *Section 2.2 of the originally submitted VIRP states site soil complies with Type 1 Risk Reduction Standards (RRS) and is not addressed further. Note that a signed certification of compliance for soil is needed since it has not previously been submitted to EPD. Figures and tables summarizing soil analytical results representing current site conditions should be included to support the certification. EPD recommends that the soil certification of compliance and supporting documentation be submitted as soon as possible, such as in an upcoming progress report.*

Response: We anticipate submitting a Compliance Status Report (CSR) before the end of the year. A signed certification of compliance for soil along with supporting figures and summary soil analytical tables will be included in that submittal.

EPD Comment 4:

- a. *Please identify and label the nearest downgradient surface water bodies on Figure 8 of the VIRP in the next submittal.*
- b. *EPD understands that a surface water drainage feature was formerly located on one or more of the VRP participating Properties that had been impacted by the release in the past and has since been buried/culverted. Please superimpose the location of the former feature as it is considered a potential contaminant migration pathway for nearby surface water bodies that could be points of exposure for human and ecological receptors until sufficient justification has been provided to eliminate said feature as a potential exposure pathway.*

Response: Figure 8 of the VIRP has been updated to include the nearest surface water bodies (refer to **Figure 2** of this submittal). We also note that location of the historical surface water drainage feature mentioned in Comment 4b has not been present at the Site since 2003 and is now covered by at least twenty (20) feet of soil above grade from site-wide redevelopment activities. This former feature no longer exists and should be eliminated as a potential exposure pathway.

- c. All buildings located above or within the estimated maximum footprint of the groundwater contaminant plume or within approximately 100 feet of those footprints should be evaluated for the vapor intrusion pathway.*

Response: All buildings at the Property were constructed with a heavy duty vapor barrier. Because mitigation controls are already in place, the vapor intrusion pathway at the site is not complete and a vapor intrusion assessment should not be warranted.

EPD Comment 5:

- a. Based on recent groundwater analytical results and the location of Washington Road, EPD will not require further delineation along the northern (upgradient) edge of the plume as recommended in Section 3.2.2 of the VIRP. However, standard delineation criteria (i.e., Type 1 RRS) should apply to the remainder of the plume.*

Response: Comment noted.

- b. The table embedded on page 10 of the December 2015 VIRP, should be revised to include proposed delineation standards for: 1) total trihalomethanes (the summation of detected chloroform and bromoform concentrations), 2) 2-butanone (MEK), and 3) bromomethane; which are regulated substances historically detected in groundwater at the site.*

Response: The table embedded on page 10 of the VIRP has been revised to include delineation standards for total trihalomethanes, 2-butanone (MEK), and bromomethane. The updated table is presented in **Table 1** of this submittal.

EPD Comment 6: *Any regulated substance detected above its delineation standard, must also have a cleanup standard to which analytical results are compared. Therefore, a cleanup standard must be proposed for bromomethane. Please update the embedded table in Section 5.7.2 of the VIRP accordingly.*

Response: The embedded table in Section 5.7.2 of the VIRP has been updated to include a clean-up standard for bromomethane. The updated table is presented in **Table 2** of this submittal.

EPD Comment 7:

- a. A description of the slurry wall, shown near the southwestern end of the contaminant plume on Figures 3, 4, and 7 C of the originally submitted VIRP, should be included in summaries of groundwater corrective actions completed to date in future submittals as it remains in place at the site.*

Response: To clarify, what is referred to as a “slurry wall” is actually an “anti-seep collar” that was installed as a conservative measure to protect underground utilities in the event that may have acted as a preferential pathway. Impacts to groundwater have not been historically documented in this area.

- b. Please include a brief description of the soil blending activities conducted at the site in June 2016 in the first Semi-Annual VRP Progress Report.*

Response: A brief description of the soil blending activities conducted at the site in June 2016 is provided in Section 3.1. A photographic log of the soil blending activities is presented in **Appendix C**.

- c. It is EPD's understanding that the monitoring wells on the former Frohman Property (the fourth qualifying tax parcel) were sampled and decommissioned with EPD's verbal concurrence. Please summarize the associated groundwater analytical results associated with the referenced sampling event in the first VRP Semi-Annual Progress Report.*

Response: The monitoring wells on the former Frohman property were sampled in November 2016 and subsequently decommissioned. The groundwater analytical results for the former Frohman property wells are summarized in **Table 3** of this submittal. All monitoring wells on the former Frohman Property met, at minimum, the Type 4 groundwater Risk Reduction Standard (RRS) prior to decommissioning. The laboratory report for the sampling event is provided in **Appendix G.1**.

- d. EPD will defer decisions regarding groundwater compliance beneath the former Frohman property at 2702 Washington Road (fourth qualifying Property) pending EPD's receipt of additional groundwater monitoring results acquired since submittal of the VIRP.*

Response: Comment noted.

EPD Comment 8:

- a. EPD cannot concur that the extent of groundwater contamination has been achieved*

west of MW-27 at this time and will defer further evaluation until a minimum of two groundwater monitoring events have been conducted using the monitoring well network referred to in Part c of this comment.

Response: In February 2017, new monitoring wells were installed to the west and downgradient of former monitoring well MW-27 (i.e., wells MW-43 and MW-44). The locations of the newly installed monitoring wells relative to the former location of MW-27 are shown in **Figure 2**. Monitoring wells MW-43 and MW-44 have been sampled twice (February and July 2017) and were non-detect for all VOCs during the July 2017 sampling event. Groundwater analytical data for MW-43 and MW-44 are summarized in Table 3 and well completion logs are provided in **Appendix D**. Laboratory reports for the sampling events are provided in **Appendix G**.

- b. *Please include an evaluation of groundwater conditions using the screening protocol recommended in the Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water (EPN 600/R-98/128, September 1998).*

Response: The approved VRP remedial strategy does not include Monitored Natural Attenuation (MNA); therefore, an MNA screening is not warranted.

- c. *Your consultant provided EPD with a table and site map, via email, proposing a revised performance monitoring network for groundwater contamination on January 10, 2017. EPD responded to said submittal in a letter dated January 11, 2017 and EPD understands that associated monitoring well installation occurred in February 2017.*

Response: The revised performance monitoring network is presented in **Appendix E**. Monitoring well installation activities in support of the performance monitoring network were completed in February 2017. Monitoring well construction logs are provided in **Appendix D**.

- d. *In accordance with §12-8-107(h) of the Act, any voluntary remediation property relying on controls, including but not limited to groundwater use restrictions for the purposes of certifying compliance with cleanup standards, shall execute a Uniform Environmental Covenant (UEC) restricting such use.*

Response: Comment noted. We will address this in the CSR to be submitted to EPD before the end of the calendar year.

EPD Comment 9: *Please provide copies of field sampling logs for the groundwater sampling event conducted in September 2015 and ensure that field sampling records are provided for each future monitoring event in the submittal that documents their results.*

Response: Field sampling logs for the September 2015 sampling event are provided in

Appendix F. The field sampling logs for the February 2017 and July 2017 sampling events are also provided in **Appendix F**.

EPD Comment 10: *Please include the appropriate delineation standards for each historically detected regulated substance released on tables and figures summarizing groundwater analytical results in addition to the proposed cleanup standards (Type 3/4 RRS), shown on Tables 1a and 1 b, in future submittals.*

Response: Comment noted. Tables and figures in the CSR submittal will include delineation standards for each historically detected regulated substance.

EPD Comment 11: *Please request that the testing laboratory report the lowest reliable analytical detection limits for bromomethane and chloromethane in groundwater. Historically, detection limits reported for these substances on Tables 1a and 1b of the VIRP have been significantly greater than their Type 1 RRS.*

Response: Analytical Environmental Services, Inc. (AES) was advised that the reporting limits for bromomethane and chloromethane exceeded their respective Type 1 groundwater RRS values. AES revised the laboratory report for the February 2017 sampling event to report the lowest reliable analytical detection limits. Chloromethane and bromomethane were not detected above the revised reporting limits in either sampling event. Copies of the laboratory reports for the semi-annual sampling events are provided in **Appendix G**.

SECTION 3.0

WORK PERFORMED – NOVEMBER 2016 THROUGH AUGUST 2017

The activities currently identified to be performed at the Site under the VRP regulatory framework are outlined in the following documents:

- VIRP dated December 2015;
- VRP Application Update dated May 11, 2016;
- VRP Application Addendum dated November 28, 2016; and
- EPD VIRP approval letter dated March 1, 2017.

The activities performed over this timeframe are as follows:

- Remediation in two areas of the site, one being the primary area of concern (AOC) near the location of the former Silverstein's Dry Cleaner facility and associated septic drain field and the other area located at monitoring well MW-27, using an ISCO soil blending delivery method (completed June 2016);
- Groundwater sampling of monitoring wells located at the former Frohman property (completed November 2016);
- Re-installation of monitoring wells destroyed during construction and/or soil remediation activities (completed February 2017);
- Groundwater delineation to the west of monitoring well former MW-27 (completed February 2017); and
- Two site-wide sampling events of the VRP performance monitoring network (completed February 2017 and July 2017).

Details associated with these activities are presented in the following sections:

3.1 ISCO Soil Blending

In June 2016, AECS and Redox Tech, LLC (Redox) jointly performed ISCO soil blending activities in two areas of the Site: 1) the Primary AOC and 2) the monitoring well MW-27 area.

The Primary AOC area corresponds to the former location of the Silverstein's Dry Cleaner facility and associated septic drain field. The soil blending target interval was from eighteen (18) to thirty (30) feet below ground surface (bgs) beneath the original area of previous soil remediation activities. The termination point of 30 ft. bgs coincided with the top of a clay confining layer.

Prior to blending activities, the vadose zone soils in the treatment area of the Primary AOC

(approximately 4,700 ft² in area) was excavated and stockpiled (and covered). Photographs showing the excavation and soil blending activities are presented in **Appendix C**. A list of the monitoring and injection wells that were removed in the soil blending area is provided in **Table 5**.

After excavation activities were completed, a track mounted excavator with a soil blending attachment was used blend oxidant in the treatment interval from 18 to 30 ft. bgs. The soil blending equipment and pictures showing the soil blending activities are provided in **Appendix C**. Fourteen (14) 2,000-lb. “supersacks” of potassium permanganate powder were blended into the treatment zone. A photograph of a “supersack” is shown in Photograph 8 of **Appendix C**.

After soil blending activities were completed, the stockpiled overburden was placed back into the excavation pit. A geotextile liner was placed in the excavation pit at a depth of approximately eighteen (18) ft. bgs, followed by two (2) feet of a gravel mixture. The textile liner and gravel mixture were applied to strengthen the soils to support the weight of the excavator needed to fill the remainder of the excavation pit with overburden soil. Photograph 19 in **Appendix C** shows the site at the completion of restoration activities.

The area surrounding monitoring well MW-27 was similarly treated across the depth interval of 5-25 ft. bgs. The treatment area was approximately 670 ft². Overburden was stockpiled adjacent to the treatment cell and used to backfill the area upon completion of blending activities. As with the Primary AOC, a geotextile liner and two (2) feet of gravel mixture were also used to restore the treatment cell. Pictures showing blending and restoration activities in the MW-27 area are shown in **Appendix C**.

3.2 Monitoring Well Sampling/Decommissioning– Former Frohman Property

In a letter amending the VIRP application dated November 28, 2016, EPD was notified that the former Frohman property was purchased by Berckman Residential Properties, LLC (Berckman). Berckman agreed to enroll the former Frohman property in the VRP and advised that they planned to demolish the Jay's Music building and associated parking surface. With concurrence from EPD, seven (7) monitoring wells located at the property were sampled prior to being properly decommissioned in accordance with the Georgia Water Well Standards Act.

All groundwater samples collected from the wells on the former Frohman property were in compliance with the residential Type 2 groundwater RRS for all Site COCs except monitoring well PMW-3 which was in compliance with non-residential Type 4 RRS.

Analytical results from the sampling event are summarized in **Table 3** and the corresponding laboratory report is provided in **Appendix G.1**.

3.3 Monitoring Wells Installation

As illustrated in **Figure 3**, extensive construction activities on the downgradient portions of the Property owned by Berckman have significantly altered the site in a manner that necessitated closure of most of the existing monitoring well network. Prior to construction activities, all monitoring wells in construction areas were plugged and abandoned in accordance with the Georgia Water Well Standards Act. Of the proposed VRP performance monitoring wells, six (6) monitoring wells were not in a construction area, and therefore, not abandoned. Those monitoring wells are MW-8, MW-25R, ME-35, MW-41, EW-S, and EW-U.

Ten new (10) monitoring wells were installed at the site in February 2017 by Piedmont Drilling. Eight (8) monitoring wells were re-installs of existing wells and two (2) wells were located in new locations (i.e., MW-43 and MW-44).

The monitoring wells were advanced via hollow stem augers and constructed using threaded-joint, Schedule 40, PVC well casing and screen materials. Each well was fitted with a 10-foot-long, 0.010-inch, machine-slotted well screen. The screens were attached to solid PVC riser material extending to the ground surface. The annular space surrounding the well screens were filled with clean #1 grade silica sand to two (2) feet above the well screen section. A 2-foot-thick, hydrated bentonite pellet seal was placed in the borehole above the sand. Bentonite grout was pumped into the annular space between the PVC casing and native material until it reached the ground surface. Each well was completed in a flush-mounted, watertight, bolt-down traffic-bearing manhole and concrete pad assembly. Watertight locking caps and well tags were fitted to each well.

A list identifying which monitoring wells at the site were saved, decommissioned, or re-installed is provided in **Table 5**. Boring logs and well construction diagrams are provided in **Appendix D**.

3.4 Groundwater Performance Monitoring

Two (2) groundwater sampling events were conducted during this first reporting period: February 2017 and July 2017. Sixteen (16) wells were sampled and analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Division (USEPA) Method SW-8260B. The analytical data from the monitoring events are summarized in Table 1. No COCs were detected above the laboratory reporting limit, except tetrachloroethene (PCE), trichloroethene (TCE) and cis-1,2-DCE. TCE was non-detect at all locations except MW-25-R with a concentration in July 2017 of 7.4 µg/L. Cis-1,2-DCE was non-detect at all locations except two (2) downgradient locations, MW-22-R2 and MW-25, that had concentrations of 5.8 µg/L and 16 µg/L, respectively.

The PCE condition in groundwater during the most recent sampling event in July 2017 is shown in Figure 5. The condition has been significantly reduced to three (3) small, isolated areas.

SECTION 4.0
WORK TO BE PERFORMED

4.1 Fate and Transport Modeling

A groundwater modeling evaluation will be presented in the CSR submittal.

4.2 Uniform Environmental Covenant

Prior to the submittal of the CSR, we will evaluate the need for a Uniform Environmental Covenant (UEC) to prevent unacceptable exposure to potential receptors due to the presence of contaminated groundwater.

SECTION 5.0
PROFESSIONAL HOURS

EPD requires that a professional engineer or geologist oversee the implementation of the VIRP in accordance with the provisions, purposes, standards and policies of the Georgia Voluntary Remediation Program Act. From March 1, 2017 through August 31, 2017, Ms. Carrie L. Williams, P.G., invoiced 109.25 hours to this project.

Table 1.
Updated VRP Delineation Standards
Silverstein's Cleaners (Former) Site - HSI 10517
1st VRP Progress Report - September 1, 2017

Regulated Substances	Groundwater RRS (mg/L)	
	Type 1 RRS	Type 2 RRS
Tetrachloroethene	0.005	0.019
Trichloroethene	0.005	0.001
Cis-1,2-Dichloroethene	0.07	0.031
Trans-1,2-Dichloroethene	0.1	0.032
Vinyl Chloride	0.002	0.001
1,1-Dichloroethene	0.007	0.103
Acetone	4	7.99
Bromoform	0.08	0.108
Chloroform	0.08	0.003
Chloromethane	0.003	0.054
Trichlorofluoromethane	2	0.383
Total Trihalomethanes	0.08	--
2-Butanone (MEK)	2	2.26
Bromomethane	0.01	0.003

Table 2.
Updated VRP Cleanup Standards
Former Silverstein's Cleaners Site - HSI 10517
1st VRP Progress Report - September 1, 2017

Regulated Substances	Groundwater RRS (mg/L)	
	Type 3 RRS	Type 4 RRS
Tetrachloroethene	0.005	0.098
Trichloroethene	0.005	0.0052
Cis-1,2-Dichloroethene	0.07	0.204
Trans-1,2-Dichloroethene	0.1	0.161
Vinyl Chloride	0.002	0.0033
1,1-Dichloroethene	0.007	0.524
Acetone	4	45.622
Bromoform	0.08	0.362
Chloroform	0.08	0.0034
Chloromethane	0.003	0.263
Trichlorofluoromethane	2	1.916
Total Trihalomethanes	0.08	--
2-Butanone (MEK)	2	11.792
Bromomethane	0.01	0.013

Table 3. Groundwater Analytical Summary (µg/L)
Former Frohman Property Monitoring Wells
Former Silverstein's Cleaners Site - HSI 10517
1st VRP Progress Report - September 1, 2017

Sample ID	Sample Date	PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Acetone	2-Butanone	Bromoform	Bromomethane	Chloroform	Chloromethane	Trichlorofluoromethane
µg/L														
MW-37	10/29/12	31	<5	<5	<5	<5	<2	<50	<50	<5	<5	10	<10	<5
	1/21/13	36	<5	<5	<5	<5	<2	<50	<50	<5	<5	7.2	<10	<5
	10/15/13	44	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	9.0
	4/30/14	27	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	9.2
	10/16/14	20	<5	<5	<5	<5	<2	<50	<50	<5	<5	9.6	<10	5.8
	4/22/15	20	<5	<5	<5	<5	<2	<50	<50	<5	<5	12	<10	13
	9/2/15	19	<5	<5	<5	<5	<2	<50	<50	<5	<5	9.0	<10	16
	11/30/16	15	<5	<5	<5	<5	<2	<50	<50	<5	<5	7.0	<10	15
MW-38	10/30/12	6900	<5	<5	<5	<5	<2	<50	<50	<5	<5	5.4	<10	<5
	1/21/13	3400	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	10/15/13	1800	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	5/1/14	1200	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	34	<5
	10/15/14	14	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	4/22/15	9.9	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	9.6
	9/2/15	14	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	20
	11/30/16	13	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	28
MW-39	10/30/12	2500	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	1/22/13	3400	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	10/15/13	15000	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	4/29/14	96	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	10/16/14	14	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	4/21/15	9.6	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	9/2/15	8.9	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	6.2
	11/30/16	7.5	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	22
MW-40	10/31/12	13	6.8	<5	36	<5	<2	<50	<50	<5	<5	<5	<10	<5
	1/21/13	28	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	18
	10/15/13	<5	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	5.3
	5/5/14	<5	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	10/16/14	8.6	<5	<5	6.5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	4/23/15	<5	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	7.4
	11/30/16	<5	<5	<5	<5	<5	<2	<50	<50	<5	<5	5.2	<10	<5
PMW-1	5/13/14	<5	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	11/30/16	well was dry												
PMW-2	5/13/14	6.5	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	<5
	11/30/16	well was dry												
PMW-3	5/13/14	21	<5	<5	<5	<5	<2	<50	<50	<5	<5	<5	<10	6.6
	11/30/16	49	<5	<5	5.4	<5	<2	<50	<50	<5	<5	7.1	<10	<5
Non-residential RRS (µg/L)		98	5.2	524	204	161	3.3	45,622	11,792	362	13	80	263	2,000

Table 4. Silverstein's Cleaners (Former) Site - HSI 10517
Groundwater Analytical Summary (µg/L)
February and July 2017 Semi-Annual Sampling Events
1st VRP Progress Report - September 1, 2017

Site COCs (µg/L)	Type 4 GW RRS (µg/L)	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July	Feb	July						
		MW-8		EW-K*		W-3*		EW-E*		MW-22*		EW-S		EW-U		MW-25*		MW-41		MW-42*		MW-13*		MW-14*		MW-18*		MW-44		MW-43		MW-35			
PCE	98	<5	<5	16	130	13	<5	38	32	380	190	86	100	<5	<5	330	510	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.9	<5	<5	<5	<5	<5
TCE	5.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-DCE	204	<5	<5	<5	<5	<5	<5	<5	<5	6.5	5.8	<5	<5	<5	<5	11	16	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Notes:

* - Replacement Monitoring Well

All VOCs are Non-Detect except as listed in Table.

Table 5.
Monitoring Well Status Summary
Former Silverstein's Cleaners Site - HSI 10517
1st VRP Progress Report - September 1, 2017

Monitoring Well	Status	VRP Performance Monitoring Well
W-3-R	Re-Installed - February 2017	✓
MW-13		✓
MW-14		✓
MW-18		✓
MW-22		✓
MW-42		✓
MW-43	Newly Installed - February 2017	✓
MW-44		✓
EW-E-R	Saved/Existing	✓
EW-K-R		✓
MW-8		✓
MW-25-R		✓
MW-35		✓
MW-41		✓
EW-S		✓
EW-U		✓
MW-16	Plugged/Closed - May 2016	--
MW-19		--
MW-18		--
MW-22-R		--
W-3		--
MW-17		--
EW-H		--
PZ-EW-H		--
EW-I		--
MW-28		--
MW-23-R		--
MW-26-D		--
EW-F		--
PZ-EW-F		--
EW-E-R		--
PZ-EW-E-R		--
MW-13-R		--
MW-29-R		--
MW-24-R		--
MW-14-R		--
EW-T-R		--

Table 5.
Monitoring Well Status Summary
Former Silverstein's Cleaners Site - HSI 10517
1st VRP Progress Report - September 1, 2017

Monitoring Well	Status	VRP Performance Monitoring Well
PZ-EW-T	Plugged/Closed - May 2016	--
PZ-EW-U		--
EW-V		--
PZ-EW-V		--
PZ-EW-S		--
EW-P-R		--
EW-Q-R		--
EW-R-R		--
EW-SW		--
MW-42		--
MW-31		--
MW-32		--
MW-36		--
MW-34		--
W-1		--
EW-L		--
MW-10		--
EW-M		--
MW-9		--
IW-1		--
IW-2		--
MW-37	Plugged/Closed - December 2016	--
MW-38		--
MW-39		--
MW-40		--
PMW-1		--
PMW-2		--
PMW-3		--
I-72 thru I-97		--
MW-27	Removed during ISCO soil blending activities	
EW-W		
I-67 thru I-71		
EW-J-R		
PZ-EW-J-R1		
PZ-EW-J-R2		
EW-1		
EW-K		

Qualifying Properties for VRP
Silverstein Site, Augusta, GA
HSI No. 10517
August 2017

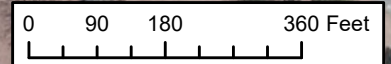


013-0-025-01-0

013-0-026-00-0

019-0-004-00-0

019-0-024-00-0



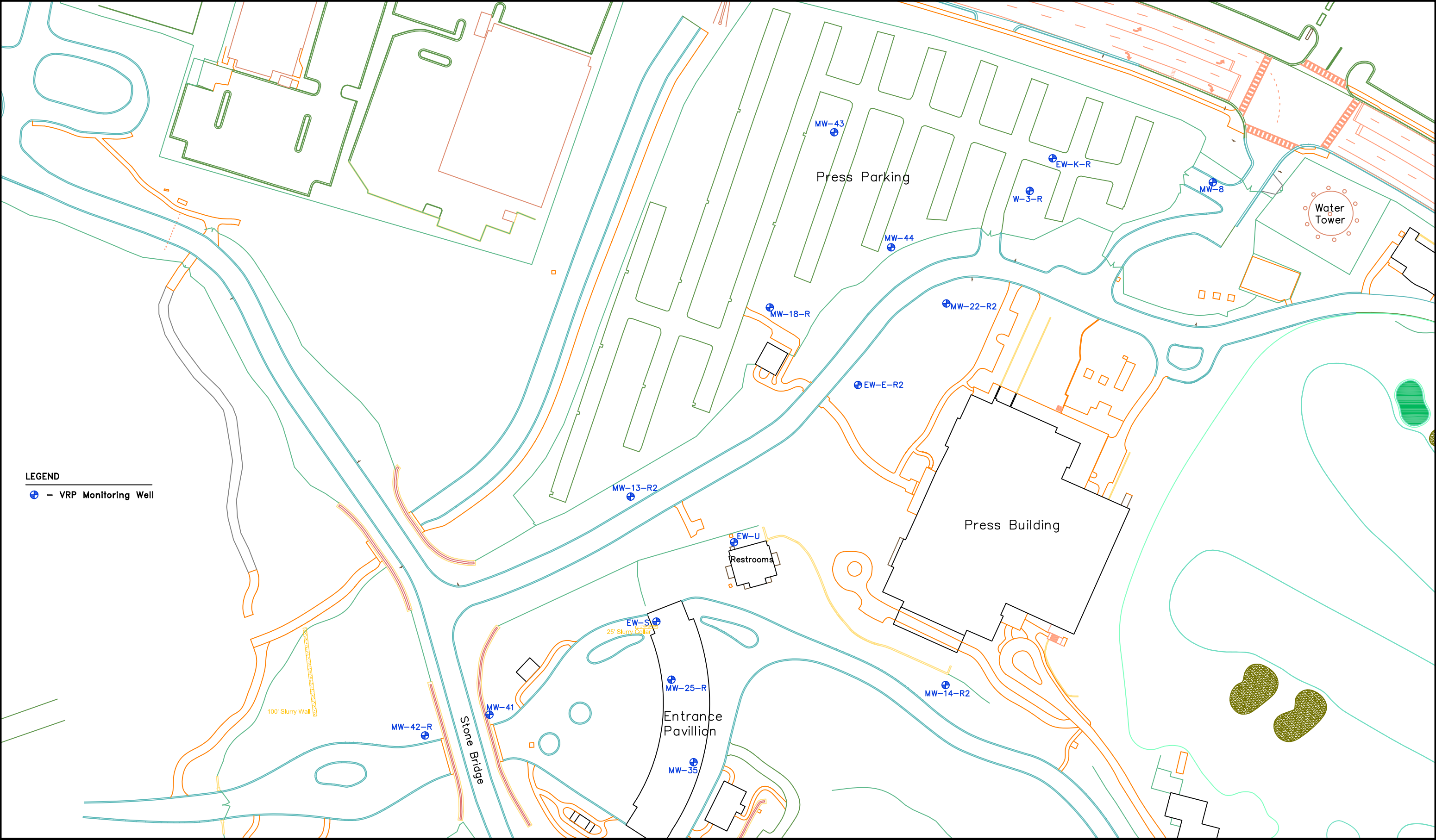
 **American Environmental &
Construction Services, Inc.**

Alpharetta, GA

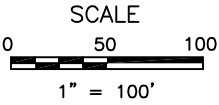
Date: August 11, 2017
Project No. 02-14
Figure No. 1
Drawn By: VAD


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

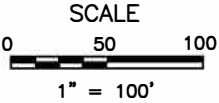
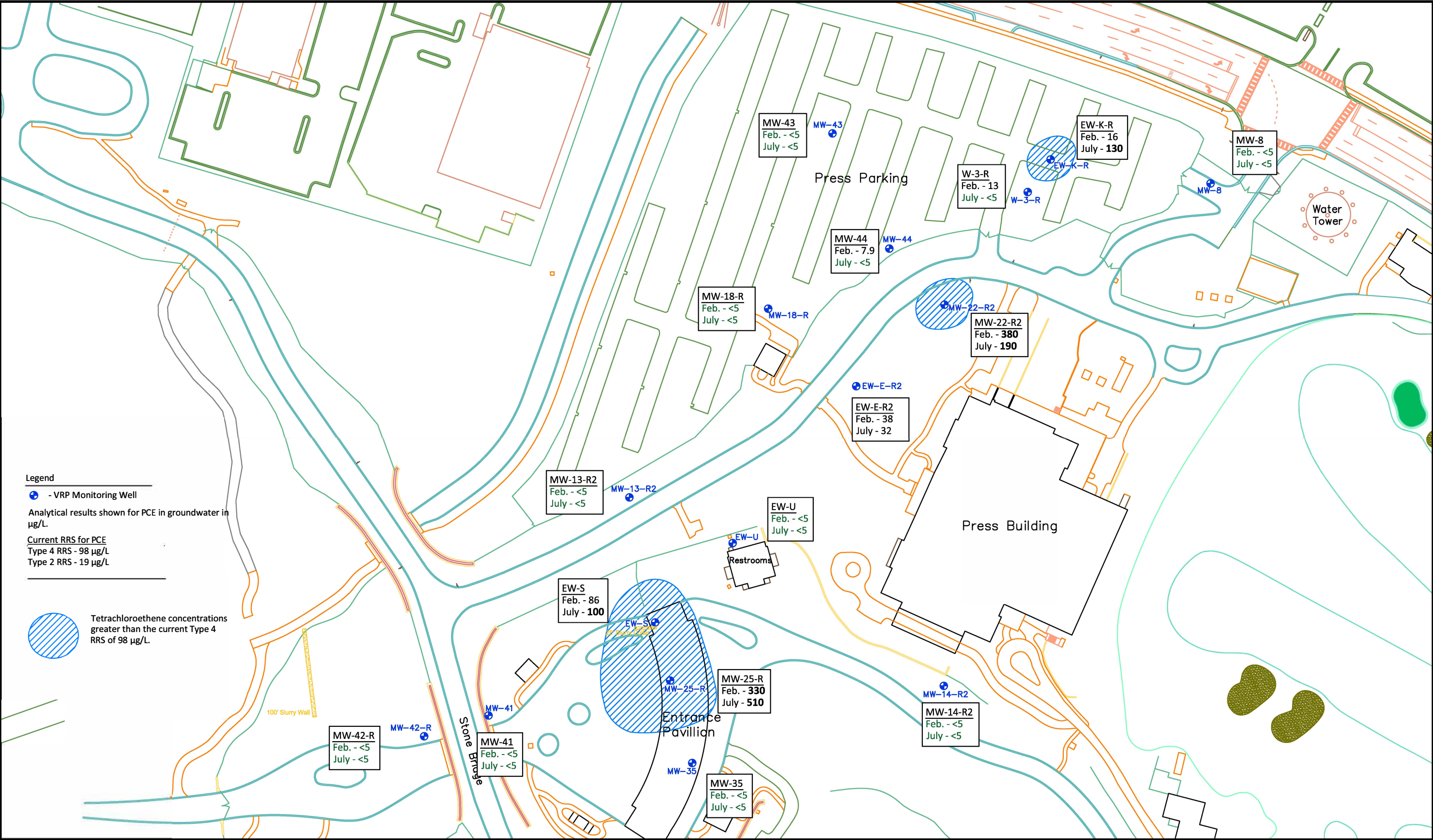




LEGEND
⊕ - VRP Monitoring Well



 American Environmental & Construction Services Alpharetta, GA Ph. (770) 754-6440	PROJECT SILVERSTEIN'S 2716 WASHINGTON RD. AUGUSTA, GA		TITLE Current Site Features		FIGURE 4
	HSI NO: 10517	DATE: 8/14/17	SCALE: 1" = 100'	DRAWN BY: JLS CHECKED BY: CWW	



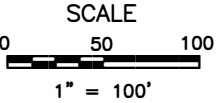
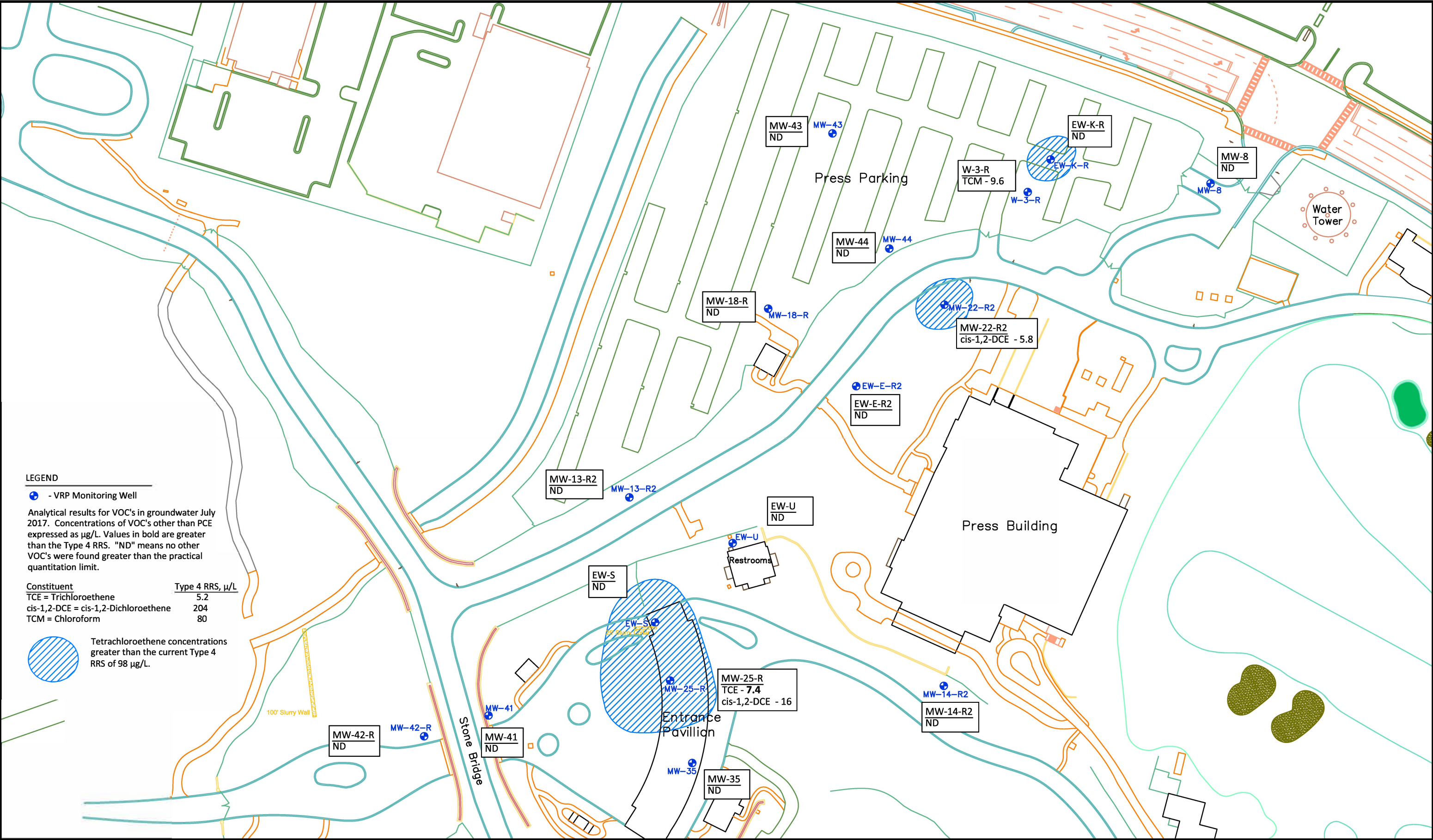
**American Environmental
& Construction Services**
Alpharetta, GA
Ph. (770) 754-6440

PROJECT
SILVERSTEIN'S
2716 WASHINGTON RD.
AUGUSTA, GA

TITLE
Tetrachloroethene Concentrations
in Groundwater, February and
July 2017, Type 4 RRS 98 µg/L

FIGURE
5

HSI NO: 10517 DATE: 8/14/17 SCALE: 1" = 100' DRAWN BY: JLS CHECKED BY: CWW

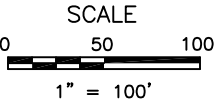
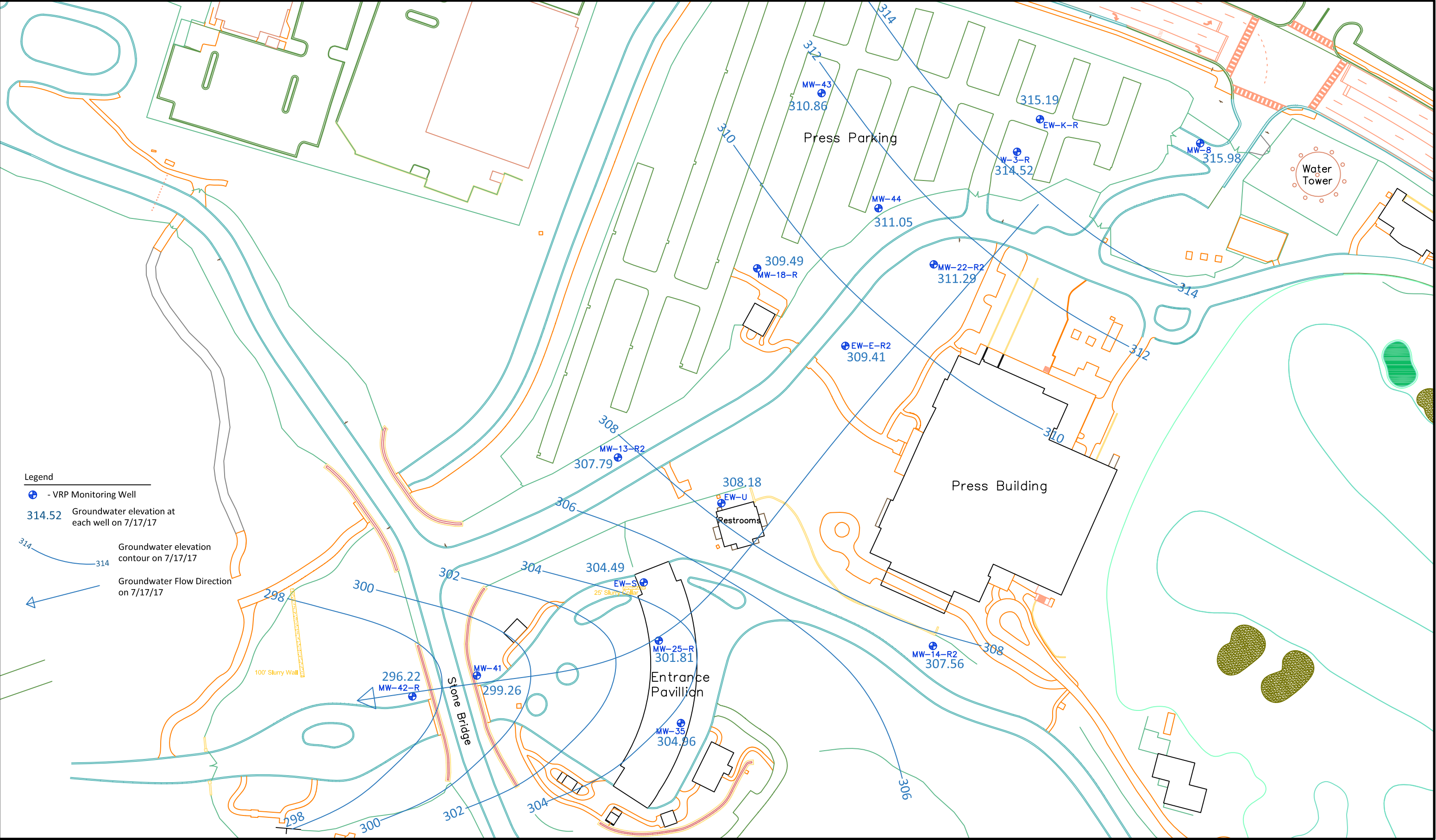



**American Environmental
& Construction Services**
Alpharetta, GA
Ph. (770) 754-6440

PROJECT
SILVERSTEIN'S
2716 WASHINGTON RD.
AUGUSTA, GA
HSI NO: 10517 DATE: 8/14/17

TITLE
**PCE Degradation Products
and Chloroform in
Groundwater, July 2017**
SCALE: 1" = 100' DRAWN BY: JLS CHECKED BY: CWW

FIGURE
6



 AECS	American Environmental & Construction Services Alpharetta, GA Ph. (770) 754-6440	PROJECT	SILVERSTEIN'S 2716 WASHINGTON RD. AUGUSTA, GA		TITLE	Groundwater Potentiometric Surface Map - July 2017		FIGURE	7
		HSI NO:	10517	DATE:	8/14/17	SCALE:	1" = 100'	DRAWN BY:	

APPENDIX A

MARCH 1, 2017
VRP COMMENT LETTER



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Land Protection Branch

2 Martin Luther King, Jr. Drive
Suite 1054, East Tower
Atlanta, Georgia 30334
404-657-8600

March 1, 2017

Via U.S. Mail

And Email: dmeadows@hullbarrett.com

BCRE Investments, LLC
Mr. Tommy Blanchard, Manager
c/o Darren Meadows, Hull Barrett, PC
801 Broad Street, 7th Floor
Augusta, GA 30901

Subject: EPD Comments Regarding:

1. Voluntary Remediation Program Application dated December 2015
 2. May 11, 2016 VRP Application Update
 3. November 28, 2016 VRP Application Addendum
- Silverstein's Cleaners (HSI 10517)
2716 Washington Road, Augusta, Richmond County

Dear Mr. Blanchard:

The Georgia Environmental Protection Division (EPD) has reviewed the referenced documents, which were submitted pursuant to the Georgia Voluntary Remediation Program Act (the Act) as an Application for entry into the Voluntary Remediation Program (VRP). That Application was approved in our letter dated March 1, 2017. However, EPD has the following comments on the referenced documents which may assist you in achieving specific investigation and cleanup milestones pursuant to the Act and program, including submittal of a final Compliance Status Report (CSR) by March 1, 2022.

1. **Site Description and Setting:** Please clearly identify the qualifying VRP Properties by either outlining or shading the properties in color on the 1 inch = 254 ft scaled tax plat in Appendix A of the Voluntary Investigation and Remediation Plan (VIRP) in the first VRP Semi-Annual Progress Report.
2. All regulated substances listed in Appendix I of the Rules for Hazardous Site Response (Rules) historically detected in soil or groundwater above background levels, or regulated degradation products of another detected regulated substance (even if not currently detected), are constituents of concern (COC) subject to delineation and cleanup requirements pursuant to the Act.
 - a. Please update the list of regulated substances in Section 4.0 of the VIRP for groundwater at the "site" to include total trihalomethanes [which are regulated in addition to the individual trihalomethanes historically detected at the site (chloroform and bromoform)], 2-butanone (MEK), and bromomethane.

- b. Section 2.2 of the originally submitted VIRP states site soil complies with Type 1 Risk Reduction Standards (RRS) and is not addressed further. Note that a signed certification of compliance for soil is needed since it has not previously been submitted to EPD. Figures and tables summarizing soil analytical results representing current site conditions should be included to support the certification. EPD recommends that the soil certification of compliance and supporting documentation be submitted as soon as possible, such as in an upcoming progress report.
3. Please update the cross-sections to include/depict:
 - a. Any soil boring or monitoring well advanced/installed at the site in response to the release at the identified source that lies within or immediately adjacent to the line of cross-section,
 - b. Potential or known source areas (e.g., dry cleaning machine location, former product and hazardous waste storage areas, septic drain fields, etc.),
 - c. Actual and/or hypothetical Points of Exposure (POEs) such as water supply wells, surface water bodies, buildings, utilities, etc.,
 - d. Source and point of demonstration (POD) well location(s) to be used as comparison points in future groundwater contaminant fate and transport modeling efforts,
 - e. The locations and dimensions (laterally and vertically) of areas that were the focus of soil and groundwater remedial efforts to date (e.g., excavations, ISCO injection areas, soil blending areas, etc.). Material used as backfill in excavations should be identified and depicted (e.g., gravel, sand, etc.),
 - f. The most recent groundwater analytical results adjacent to the well screened interval of the wells sampled. Isoconcentration contours (isopleths) should depict the lateral and vertical extent of each contaminant detected above its delineation standard and those contaminants exceeding initial applicable cleanup standards (Type 1/2 or Type 3/4 RRS) in groundwater.
4. Potential Receptors/Exposure Pathways/Exposure Domains:
 - a. Please identify and label the nearest downgradient surface water bodies on Figure 8 of the VIRP in the next submittal.
 - b. EPD understands that a surface water drainage feature was formerly located on one or more of the VRP participating Properties that had been impacted by the release in the past and has since been buried/culverted. Please superimpose the location of the former feature as it is considered a potential contaminant migration pathway for nearby surface water bodies that could be points of exposure for human and ecological receptors until sufficient justification has been provided to eliminate said feature as a potential exposure pathway.
 - c. All buildings located above or within the estimated maximum footprint of the groundwater contaminant plume or within approximately 100 feet of those footprints should be evaluated for the vapor intrusion pathway.

5. Delineation Criteria and Standards (Section 4.0 of the December 2015 VIRP):

a. Groundwater:

- i. Based on recent groundwater analytical results and the location of Washington Road, EPD will not require further delineation along the northern (upgradient) edge of the plume as recommended in Section 3.2.2 of the VIRP. However, standard delineation criteria (i.e., Type 1 RRS) should apply to the remainder of the plume.
- ii. The table embedded on page 10 of the December 2015 VIRP, should be revised to include proposed delineation standards for: 1) total trihalomethanes (the summation of detected chloroform and bromoform concentrations), 2) 2-butanone (MEK), and 3) bromomethane; which are regulated substances historically detected in groundwater at the site.

References (narratives, tables, figures, etc.) to groundwater delineation criteria/standards and conclusions regarding the extent of groundwater contamination in future submittals should be adjusted based on this comment.

- b. Surface Water and Sediment: Should surface water bodies be confirmed as potential POEs for human or ecological receptors, delineation and cleanup standards should be proposed, along with the criteria used to determine them, for EPD review and concurrence.

6. Any regulated substance detected above its delineation standard, must also have a cleanup standard to which analytical results are compared. Therefore, a cleanup standard must be proposed for bromomethane. Please update the embedded table in Section 5.7.2 of the VIRP accordingly.

7. Investigative and Corrective Actions Conducted To Date:

- a. A description of the slurry wall, shown near the southwestern end of the contaminant plume on Figures 3, 4, and 7 C of the originally submitted VIRP, should be included in summaries of groundwater corrective actions completed to date in future submittals as it remains in place at the site.
- b. Please include a brief description of the soil blending activities conducted at the site in June 2016 in the first Semi-Annual VRP Progress Report.
- c. It is EPD's understanding that the monitoring wells on the former Frohman Property (the fourth qualifying tax parcel) were sampled and decommissioned with EPD's verbal concurrence. Please summarize the associated groundwater analytical results associated with the referenced sampling event in the first VRP Semi-Annual Progress Report.
- d. EPD will defer decisions regarding groundwater compliance beneath the former Frohman property at 2702 Washington Road (fourth qualifying Property) pending EPD's receipt of additional groundwater monitoring results acquired since submittal of the VIRP.

8. Proposed Additional Investigative and Corrective Actions:

- a. EPD cannot concur that the extent of groundwater contamination has been achieved west of MW-27 at this time and will defer further evaluation until a minimum of two groundwater monitoring events have been conducted using the monitoring well network referred to in Part c of this comment.
 - b. Please include an evaluation of groundwater conditions using the screening protocol recommended in the *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* (EPA/600/R-98/128, September 1998).
 - c. Your consultant provided EPD with a table and site map, via email, proposing a revised performance monitoring network for groundwater contamination on January 10, 2017. EPD responded to said submittal in a letter dated January 11, 2017 and EPD understands that associated monitoring well installation occurred in February 2017.
 - d. In accordance with §12-8-107(h) of the Act, any voluntary remediation property relying on controls, including but not limited to groundwater use restrictions for the purposes of certifying compliance with cleanup standards, shall execute a Uniform Environmental Covenant (UEC) restricting such use.
9. Please provide copies of field sampling logs for the groundwater sampling event conducted in September 2015 and ensure that field sampling records are provided for each future monitoring event in the submittal that documents their results.
10. Please include the appropriate delineation standards for each historically detected regulated substance released on tables and figures summarizing groundwater analytical results in addition to the proposed cleanup standards (Type 3/4 RRS), shown on Tables 1a and 1b, in future submittals.
11. Please request that the testing laboratory report the lowest reliable analytical detection limits for bromomethane and chloromethane in groundwater. Historically, detection limits reported for these substances on Tables 1a and 1b of the VIRP have been significantly greater than their Type 1 RRS.

The above comments must be addressed to EPD's satisfaction in order to demonstrate compliance with the provisions, purposes, standards, and policies of the Act. EPD may, at its sole discretion, review and comment on documents submitted by BCRE Investments, LLC. However, failure of EPD to respond to a submittal within any timeframe does not relieve BCRE Investments, LLC from complying with the provisions, purposes, standards, and policies of the Act.

VRP Application Comments
BCRE Investments, LLC
March 1, 2017
Page 5 of 5

If you have any questions, please contact Carolyn L. Daniels, P.G. of the Response and Remediation Program at (404) 657-8646.

Sincerely,



Jason Metzger
Program Manager
Response and Remediation Program

c: Rodger Daniel, AECS (via email: rdc@amenv.com)
Carrie Williams Welty, AECS (via email: clwilli@gmail.com)

File: 260-0151 (VRP)

S:\RDRIVE\ DANIELSC\SITES\HSRA\#10517 (Silverstein's Cleaners, Augusta)\VRP\Fiscal 2017\Application and VIRP\vrp application comments.docx

APPENDIX B

UPDATED LIST OF SITE COCs

The following provides an updated list of HSRA regulated substances historically detected in soil or groundwater at the Site. This updated list addresses Comment No. 2a of the March 1, 2017 VRP Comment Letter (refer to **Appendix A**) requesting the addition of total trihalomethanes, 2-butanone (MEK), and bromomethane to the original list provided in Section 4.0 of the December 2015 VIRP.

- Tetrachloroethene (PCE);
- Trichloroethene (TCE);
- Cis-1,2-Dichloroethene
- Trans-1,2-Dichloroethene;
- Vinyl Chloride;
- 1,1-Dichloroethene;
- Acetone;
- Bromoform;
- Chloroform;
- Chloromethane;
- Trichlorofluoromethane;
- Total Trihalomethanes;
- 2-butanone (MEK); and
- Bromomethane.

APPENDIX C

PHOTOGRAPHIC LOG ISCO SOIL BLENDING ACTIVITIES

	Former Silverstein's Dry Cleaners Site – HSI 10517 Augusta, Georgia
	Figure: 1
	AECS 
Pre-ISCO soil mixing excavation activities – Primary Area of Concern (AOC)	

	Former Silverstein's Dry Cleaners Site – HSI 10517 Augusta, Georgia
	Figure: 2
	AECS 
Pre-ISCO soil mixing excavation activities – Primary AOC	

Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
3

AECS



Pre-ISCO soil mixing excavation activities – Primary AOC

Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
4

AECS



Construction/Exclusion Area.



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
5

AECS



Arrival of conex box containing potassium permanganate supersacks.



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
6

AECS



Soil Mixing Equipment



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
7

AECS



View of soil mixing attachment.



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
8

AECS



2,000 lb. supersack of potassium permanganate.



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
9

AECS



Deep soil mixing – Primary AOC



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
10

AECS



Deep soil mixing – Primary AOC



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
11

AECS



Deep soil mixing – Primary AOC



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
12

AECS



Soil screening of excavated overburden was performed using a miniRae 2000.



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
13

AECS



Temporary stockpiles of excavated overburden.



Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
14

AECS



Placement of geotextile liner – Primary AOC

Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
15

AECS



Placement of gravel mixture - Primary AOC Area

Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
16

AECS



Placement of overburden – Primary AOC Area

Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
17

AECS



ISCO Soil blending – MW-27 Area

Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
18

AECS



Placement gravel mixture over the geotextile liner – MW-27 Area

Former
Silverstein's Dry
Cleaners Site –
HSI 10517
Augusta, Georgia

Figure:
19

AECS



Completed site restoration – Primary AOC and MW-27 areas.

APPENDIX D

MONITORING WELL BORING LOGS AND CONSTRUCTION DIAGRAMS



FIELD LOG OF BORING

WELL NO. _W-3-R_
SHEET _1_ OF _2_

PROJECT: Silverstein		JOB NO.: 02-14		BORING NO.: W-3-R								
		LOGGED BY: J. Sears		TOTAL DEPTH: 30 feet								
DRILLING CONTRACTOR: Piedmont Drilling				SURFACE ELEV.: DATUM:								
DRILLER'S NAME: Jorge, Doug				START, TIME: DATE: 2/9/17								
DRILL RIG TYPE:				FINISH, TIME: DATE:								
BORING METHOD: hollow stem auger				WATER DEPTH:								
HOLE DIAMETER: 8"				DATE:								
SAMPLING METHOD:				TIME:								
HAMMER WGT.:		DROP HGT:		BACKFILLED, TIME: DATE:								
CONDITIONS:				LOCATION OF BORING:								
SAMPLE DEPTH	SAMPLE TYPE	BLOWS / 6-INCHES	INCHES DRIVEN	INCHES RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH IN FEET	LITHOLOGY	
											CL	Sand to 18' (5 bags); bentonite 18'-16' (1 bag); 20' of riser (2") ; 10' of screen (2")
										1		reddish brown sandy clay
										2		
										3		
										4		
										5		
										6	CL	reddish brown sandy clay
										7		
										8		
										9		
										10		
										11	CL	reddish brown sandy clay
										12		
										13		
										14		
										15		

PROJECT: Silverstein							DATE: 2/9/17			JOB NO.: 02-14				BORING NO.: W-3-R	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH	LITH.				
										16	CL	reddish brown sandy clay			
										17					
										18					
										19					
										20					
										21	CL	reddish brown sandy clay			
										22					
										23					
										24					
										25					
										26	CL	reddish brown sandy clay			
										27					
										28					
										29					
										30		reddish brown sandy clay, moist, boring terminated at 30 feet			
										31					
										32					
										33					
										34					
										35					



FIELD LOG OF BORING

WELL NO. MW-13-R2
SHEET 1 OF 2

PROJECT: Silverstein		JOB NO.: 02-14		BORING NO.: MW-13-R2								
		LOGGED BY: J. Sears		TOTAL DEPTH: 30 feet								
DRILLING CONTRACTOR: Piedmont Drilling				SURFACE ELEV.: DATUM:								
DRILLER'S NAME: Jorge, Doug				START, TIME: DATE: 2/10/17								
DRILL RIG TYPE:				FINISH, TIME: DATE:								
BORING METHOD: hollow stem auger				WATER DEPTH:								
HOLE DIAMETER: 8"				DATE:								
SAMPLING METHOD:				TIME:								
HAMMER WGT.:		DROP HGT:		BACKFILLED, TIME: DATE:								
CONDITIONS:				LOCATION OF BORING:								
SAMPLE DEPTH	SAMPLE TYPE	BLOWS / 6-INCHES	INCHES DRIVEN	INCHES RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH IN FEET	LITHOLOGY	Sand to 16' (7 bags); bentonite 16'-12' (2 bag); 20' of riser (2") ; 10' of screen (2")
										1	CL	
										2		
										3		
										4		
										5		
										6	CL	
										7		
										8		
										9		
										10		
										11	CL	
										12		
										13		
										14		
										15		

PROJECT: Silverstein							DATE: 2/10/17			JOB NO.: 02-14				BORING NO.: MW-13-R2	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH		LITH.			
										16		CL	reddish brown sandy clay		
										17					
										18					
										19					
										20					
										21		CL	light tan sandy clay		
										22					
										23					
										24					
										25					
										26		CL	light tan sandy clay, wet		
										27					
										28					
										29					
										30					
										30		CL	light tan sandy clay, wet, boring terminated at 30 feet		
										31					
										32					
										33					
										34					
										35					



FIELD LOG OF BORING

WELL NO. MW-14-R2
SHEET 1 OF 2

PROJECT: Silverstein										JOB NO.: 02-14		BORING NO.: MW-14-R2	
										LOGGED BY: J. Sears		TOTAL DEPTH: 25 feet	
DRILLING CONTRACTOR: Piedmont Drilling										SURFACE ELEV.:		DATUM:	
DRILLER'S NAME: Jorge, Doug										START, TIME:		DATE: 2/9/17	
DRILL RIG TYPE:										FINISH, TIME:		DATE:	
BORING METHOD: hollow stem auger										WATER DEPTH:			
HOLE DIAMETER: 8"										DATE:			
SAMPLING METHOD:										TIME:			
HAMMER WGT.:					DROP HGT:					BACKFILLED, TIME:		DATE:	
CONDITIONS:										LOCATION OF BORING:			
SAMPLE DEPTH	SAMPLE TYPE	BLOWS / 6-INCHES	INCHES DRIVEN	INCHES RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH IN FEET	LITHOLOGY	Sand to 13' (5 bags); bentonite 13'-11' (1 bag); 15' of riser (2") ; 10' of screen (2")	
										1	CL		
										2			
										3			
										4			
										5			
										6	CL		
										7			
										8			
										9			
										10			
										11	CL		
										12			
										13			
										14			
										15			

PROJECT: Silverstein							DATE: 2/9/17			JOB NO.: 02-14				BORING NO.: MW-14-R2	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH		LITH.			
										16	CL		reddish brown sandy clay		
										17					
										18					
										19					
										20					
										21					
										22					
										23					
										24	CL		reddish brown sandy clay		
										25					
										26					
										27					
										28					
										29					
										30					
										31					
										32					
										33					
										34					
										35					



FIELD LOG OF BORING

WELL NO. MW-18-R
SHEET 1 OF 2

PROJECT: Silverstein		JOB NO.: 02-14		BORING NO.: MW-18-R								
		LOGGED BY: J. Sears		TOTAL DEPTH: 30 feet								
DRILLING CONTRACTOR: Piedmont Drilling				SURFACE ELEV.: DATUM:								
DRILLER'S NAME: Jorge, Doug				START, TIME: DATE: 2/8/17								
DRILL RIG TYPE:				FINISH, TIME: DATE:								
BORING METHOD: hollow stem auger				WATER DEPTH:								
HOLE DIAMETER: 8"				DATE:								
SAMPLING METHOD:				TIME:								
HAMMER WGT.:		DROP HGT:		BACKFILLED, TIME: DATE:								
CONDITIONS:				LOCATION OF BORING:								
SAMPLE DEPTH	SAMPLE TYPE	BLOWS / 6-INCHES	INCHES DRIVEN	INCHES RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH IN FEET	LITHOLOGY	Sand to 18' (5 bags); bentonite 18'-16' (1 bag); 20' of riser (2") ; 10' of screen (2")
										1	CL	
										2		
										3		
										4		
										5		
										6	CL	
										7		
										8		
										9		
										10		
										11	CL	
										12		
										13		
										14		
										15		

PROJECT: Silverstein							DATE: 2/8/17			JOB NO.: 02-14				BORING NO.: MW-18-R	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH	LITH.				
										16	CL	reddish brown sandy clay			
										17					
										18					
										19					
										20					
										21	CL	reddish brown sandy clay			
										22					
										23					
										24					
										25					
										26	CL	reddish brown sandy clay			
										27					
										28					
										29					
										30		reddish brown sandy clay, moist, boring terminated at 30 feet			
										31					
										32					
										33					
										34					
										35					



FIELD LOG OF BORING

WELL NO. MW-22-R2
SHEET 1 OF 2

PROJECT: Silverstein		JOB NO.: 02-14		BORING NO.: MW-22-R2								
		LOGGED BY: J. Sears		TOTAL DEPTH: 30 feet								
DRILLING CONTRACTOR: Piedmont Drilling				SURFACE ELEV.: DATUM:								
DRILLER'S NAME: Jorge, Doug				START, TIME: DATE: 2/13/17								
DRILL RIG TYPE:				FINISH, TIME: DATE:								
BORING METHOD: hollow stem auger				WATER DEPTH:								
HOLE DIAMETER: 8"				DATE:								
SAMPLING METHOD:				TIME:								
HAMMER WGT.:		DROP HGT:		BACKFILLED, TIME: DATE:								
CONDITIONS:				LOCATION OF BORING:								
SAMPLE DEPTH	SAMPLE TYPE	BLOWS / 6-INCHES	INCHES DRIVEN	INCHES RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH IN FEET	LITHOLOGY	
										1	CL	Flower bed/ topsoil/ sand
										2		reddish brown sandy clay
										3		
										4		
										5		
										6	CL	reddish brown sandy clay
										7		
										8		
										9		
										10		
										11	CL	reddish tan sandy clay
										12		
										13	CL	reddish brown sandy clay
										14		
										15		

PROJECT: Silverstein							DATE: 2/13/17			JOB NO.: 02-14				BORING NO.: MW-22-R2	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH		LITH.			
										16		CL	reddish brown sandy clay		
										17					
										18					
										19					
										20					
										21		CL	reddish brown sandy clay		
										22					
										23					
										24					
										25					
										26		CL	reddish tan sandy clay, moist		
										27					
										28					
										29					
										30					
										30	CL	tan sandy clay, moist, boring terminated at 30 feet			
										31					
										32					
										33					
										34					
										35					

EDITED BY/DATE: _____

PROJECT: Silverstein							DATE: 2/10/17			JOB NO.: 02-14				BORING NO.: MW-42-R	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH	LITH.				
										16	CL	reddish brown sandy clay			
										17					
										18					
										19					
										20					
										21	CL	reddish brown sandy clay			
										22					
										23					
										24					
										25					
										26	CL	reddish brown sandy clay			
										27					
										28					
										29					
										30					
										30	CL	reddish brown sandy clay, moist, boring terminated at 30 feet			
										31					
										32					
										33					
										34					
										35					

EDITED BY/DATE:

PROJECT: Silverstein							DATE: 2/13/17			JOB NO.: 02-14				BORING NO.: MW-43	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH		LITH.			
												CL	reddish brown sandy clay		
										16					
										17					
												CL			
										18					
										19					
												CL			
										20					
										21				reddish brown sandy clay	
												CL			
										22					
										23					
												CL			
										24					
										25					
												CL	reddish brown sandy clay		
										26					
										27					
												CL			
										28					
										29					
												CL			
										30					
										31				reddish brown sandy clay, moist, boring terminated at 30 feet	
												CL			
										32					
										33					
												CL			
										34					
										35				tan sandy clay	

PROJECT:							DATE: 2/13/17			JOB NO.:			BORING NO.: MW-43		
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	FID READING (ppm)	LAB SAMPLE	DEPTH	LITH.				
										36					
										37					
										38					
										39	CL	light tan clay, rolls well, very little sand			
										40	CL	reddish brown clay, moist, boring terminated at 40 feet			
										41					
										42					
										43					
										44					
										45					
										46					
										47					
										48					
										49					
										50					
										51					
										52					
										53					
										54					
										55					



FIELD LOG OF BORING

WELL NO. MW-44
SHEET 1 OF 2

PROJECT: Silverstein		JOB NO.: 02-14		BORING NO.: MW-44								
		LOGGED BY: J. Sears		TOTAL DEPTH: 35 feet								
DRILLING CONTRACTOR: Piedmont Drilling				SURFACE ELEV.: DATUM:								
DRILLER'S NAME: Jorge, Doug				START, TIME: DATE: 2/8/17								
DRILL RIG TYPE:				FINISH, TIME: DATE:								
BORING METHOD: hollow stem auger				WATER DEPTH:								
HOLE DIAMETER: 8"				DATE:								
SAMPLING METHOD:				TIME:								
HAMMER WGT.:		DROP HGT:		BACKFILLED, TIME: DATE:								
CONDITIONS:				LOCATION OF BORING:								
SAMPLE DEPTH	SAMPLE TYPE	BLOWS / 6-INCHES	INCHES DRIVEN	INCHES RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH IN FEET	LITHOLOGY	Sand to 23' (5 bags); bentonite 23'-21' (1 bag); 20' of riser (2") ; 10' of screen (2")
										1	CL	
										2		
										3		
										4		
										5		
										6	CL	
										7		
										8		
										9		
										10		
										11	CL	
										12		
										13		
										14		
										15		

PROJECT: Silverstein							DATE: 2/8/17			JOB NO.: 02-14				BORING NO.: MW-44	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH		LITH.			
										16		CL	reddish brown sandy clay		
										17					
										18					
										19					
										20					
										21		CL	reddish brown sandy clay		
										22					
										23					
										24					
										25					
										26		CL	reddish brown sandy clay		
										27					
										28					
										29					
										30					
										31		CL	reddish brown sandy clay		
										32					
										33					
										34					
										35					
										35	CL	reddish brown sandy clay, moist, boring terminated at 35 feet			



FIELD LOG OF BORING

WELL NO. EW-E-R2
SHEET 1 OF 2

PROJECT: Silverstein		JOB NO.: 02-14		BORING NO.: EW-E-R2								
		LOGGED BY: J. Sears		TOTAL DEPTH: 30 feet								
DRILLING CONTRACTOR: Piedmont Drilling				SURFACE ELEV.: DATUM:								
DRILLER'S NAME: Jorge, Doug				START, TIME: DATE: 2/13/17								
DRILL RIG TYPE:				FINISH, TIME: DATE:								
BORING METHOD: hollow stem auger				WATER DEPTH:								
HOLE DIAMETER: 8"				DATE:								
SAMPLING METHOD:				TIME:								
HAMMER WGT.:		DROP HGT:		BACKFILLED, TIME: DATE:								
CONDITIONS:				LOCATION OF BORING:								
SAMPLE DEPTH	SAMPLE TYPE	BLOWS / 6-INCHES	INCHES DRIVEN	INCHES RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH IN FEET	LITHOLOGY	
										1	CL	Flower bed/ topsoil/ sand
										2		reddish brown sandy clay
										3		
										4		
										5		
										6	CL	reddish brown sandy clay
										7		
										8		
										9		
										10		
										11	CL	reddish brown sandy clay
										12		
										13		
										14		
										15		

PROJECT: Silverstein							DATE: 2/13/17			JOB NO.: 02-14				BORING NO.: EW-E-R2	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH	LITH.				
										16	CL	reddish brown sandy clay			
										17					
										18					
										19					
										20					
										21	CL	reddish brown sandy clay			
										22					
										23					
										24					
										25					
										26	CL	reddish tan sandy clay, moist			
										27					
										28					
										29					
										30		CL	tan sandy clay, wet, boring terminated at 30 feet		
										31					
										32					
										33					
										34					
										35					



FIELD LOG OF BORING

WELL NO. EW-K-R
SHEET 1 OF 2

PROJECT: Silverstein		JOB NO.: 02-14		BORING NO.: EW-K-R								
		LOGGED BY: J. Sears		TOTAL DEPTH: 30 feet								
DRILLING CONTRACTOR: Piedmont Drilling				SURFACE ELEV.: DATUM:								
DRILLER'S NAME: Jorge, Doug				START, TIME: DATE: 2/9/17								
DRILL RIG TYPE:				FINISH, TIME: DATE:								
BORING METHOD: hollow stem auger				WATER DEPTH:								
HOLE DIAMETER: 8"				DATE:								
SAMPLING METHOD:				TIME:								
HAMMER WGT.:		DROP HGT:		BACKFILLED, TIME: DATE:								
CONDITIONS:				LOCATION OF BORING:								
SAMPLE DEPTH	SAMPLE TYPE	BLOWS / 6-INCHES	INCHES DRIVEN	INCHES RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH IN FEET	LITHOLOGY	Sand to 18' (5 bags); bentonite 18'-16' (1 bag); 20' of riser (2") ; 10' of screen (2")
										1	CL	
										2		
										3		
										4		
										5		
										6	CL	
										7		
										8		
										9		
										10		
										11	CL	
										12		
										13		
										14		
										15		

PROJECT: Silverstein							DATE: 2/9/17			JOB NO.: 02-14				BORING NO.: EW-K-R	
DEPTH	TYPE	BLOWS	DRIVEN	RECOVERED	MOISTURE	DENSITY	HEADSPACE (ppm)	PID READING (ppm)	LAB SAMPLE	DEPTH	LITH.				
										16	CL	reddish brown sandy clay			
										17					
										18					
										19					
										20					
										21	CL	reddish brown sandy clay			
										22					
										23					
										24					
										25					
										26	CL	reddish brown sandy clay			
										27					
										28					
										29					
										30					
										30	CL	reddish brown sandy clay, moist, boring terminated at 30 feet			
										31					
										32					
										33					
										34					
										35					



AECS, INC.

WELL No.:

W-3-R

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>W-3-R</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/09/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Ground Elevation =
Datum:

Not to Scale

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of
Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 16ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 18ft.

Elevation / Depth of Top of Screen: / 20ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 10'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 30ft.

Elevation / Depth of Bottom of
Filter Pack: / 30ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 30ft.



AECS, INC.

WELL No.:

MW-13-R2

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>MW-13-R2</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/10/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Ground Elevation =
Datum:

Not to Scale

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 12ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 16ft.

Elevation / Depth of Top of Screen: / 20ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 10'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 30ft.

Elevation / Depth of Bottom of Filter Pack: / 30ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 30ft.



AECS, INC.

WELL No.:

MW-14-R2

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>MW-14-R2</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/09/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Ground Elevation = Datum:

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 11ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 13ft.

Elevation / Depth of Top of Screen: / 15ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 10'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 25ft.

Elevation / Depth of Bottom of Filter Pack: / 25ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 25ft.

Not to Scale



AECS, INC.

WELL No.:

MW-18-R

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>MW-18-R</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/08/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Ground Elevation = Datum:

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 16ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 18ft.

Elevation / Depth of Top of Screen: / 20ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 10'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 30ft.

Elevation / Depth of Bottom of Filter Pack: / 30ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 30ft.

Not to Scale



AECS, INC.

WELL No.:

MW-22-R2

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>MW-22-R2</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/13/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 15ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 17ft.

Elevation / Depth of Top of Screen: / 20ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 10'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 30ft.

Elevation / Depth of Bottom of Filter Pack: / 30ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 30ft.

Ground Elevation = Datum:

Not to Scale



AECS, INC.

WELL No.:

MW-42-R

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>MW-42-R</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/10/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 15ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 17ft.

Elevation / Depth of Top of Screen: / 20ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 10'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 30ft.

Elevation / Depth of Bottom of Filter Pack: / 30ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 30ft.

Ground Elevation = Datum:

Not to Scale



AECS, INC.

WELL No.:

MW-43

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>MW-43</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/13/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 14ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 18ft.

Elevation / Depth of Top of Screen: / 20ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 20'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 40ft.

Elevation / Depth of Bottom of Filter Pack: / 40ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 40ft.

Ground Elevation = Datum:

Not to Scale



AECS, INC.

WELL No.:

MW-44

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>MW-44</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/08/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Ground Elevation = Datum:

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 21ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 23ft.

Elevation / Depth of Top of Screen: / 25ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 10'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 35ft.

Elevation / Depth of Bottom of Filter Pack: / 35ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 35ft.

Not to Scale



AECS, INC.

WELL No.:

EW-E-R2

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>EW-E-R2</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/13/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Ground Elevation = Datum:

Not to Scale

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 14ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 16ft.

Elevation / Depth of Top of Screen: / 20ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 10'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 30ft.

Elevation / Depth of Bottom of Filter Pack: / 30ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 30ft.



AECS, INC.

WELL No.:

EW-K-R

MONITORING WELL(S) DIAGRAM

PROJECT:	<u>Silverstein</u>	DRILLING Co.:	<u>Piedmont</u>	BORING No.:	<u>EW-K-R</u>
PROJECT No.:	<u>2-14</u>	DRILLER:	<u>Jorge/Doug</u>	DATE COMPLETED:	<u>02/09/17</u>
SITE:	<u>HIS #10517</u>	DRILLING METHOD:	<u>Hollow Stem</u>		
GEOLOGIST:	<u>Burton Dixon</u>	DEV. METHOD:	<u>Whale pump</u>		

Ground Elevation = Datum:

Not to Scale

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Flush mount steel well box

Type of Surface Seal: Cement Grout

I.D. of Riser: 2"

Type of Riser: Sch 40 PVC

Borehole Diameter: 8"

Elevation / Depth Top of Rock: /

Type of Backfill: Grout

Elevation / Depth of Seal: / 16ft.

Type of Seal: Bentonite Pellets

Elevation / Depth of Top of Filter Pack: / 18ft.

Elevation / Depth of Top of Screen: / 20ft.

Type of Screen: Sch 40 PVC

Slot Size x Length: slot size 0.010" x 10'

I.D. of Screen: 2"

Type of Filter Pack: Quartz Sand

Elevation / Depth of Bottom of Screen: / 30ft.

Elevation / Depth of Bottom of Filter Pack: / 30ft.

Type of Backfill Below Well: Soil

Elevation / Total Depth of Borehole: / 30ft.

The table below provides a list of the monitoring wells comprising the current VRP performance monitoring well network.

VRP Monitoring Network	February 2017 Semi-annual Sampling Event	July 2017 Semi-annual Sampling Event
MW-8	✓	✓
EW-K	✓	✓
W-3	✓	✓
EW-E	✓	✓
MW-22	✓	✓
EW-S	✓	✓
EW-U	✓	✓
MW-25	✓	✓
MW-41	✓	✓
MW-42	✓	✓
MW-13	✓	✓
MW-14	✓	✓
MW-18	✓	✓
MW-44	✓	✓
MW-43	✓	✓
MW-35	✓	✓

FEBRUARY 2017
FIELD SAMPLING LOGS

AECS, INC.**WELL INSPECTION/WATER LEVEL MEASUREMENT FORM**

Site Name: Former Silverstein's Dry Cleaners
Address: 2716 Washington Road
Augusta, GA

Date: **February 20, 2017**
Time: **13:00 - 16:00**

Special Instructions (All level measurements to be from Top of Casing)

Monitoring Well:	Total Depth (ft.BTOC)	Water Level (ft. BTOC)	One Well Volume gal.	Three Well Volume gal.	Three Well Volume liters	Well Status	Notes
W-3-R	29.42	20.37	1.45	4.34	16.44		
MW-8	25.19	18.47	1.08	3.23	12.21		
MW-13-R2	28.99	16.41	2.01	6.04	22.86		
MW-14-R2	24.54	18.58	0.95	2.86	10.83		
MW-18-R	28.85	23.51	0.85	2.56	9.70		
MW-22-R2	29.68	23.38	1.01	3.02	11.45		
MW-25-R	21.88	15.14	1.08	3.24	12.25		
MW-31	26.48	13.26	2.12	6.35	24.02		
MW-35	15.43	11.96	0.56	1.67	6.30		
MW-42-R	29.65	15.84	2.21	6.63	25.09		
MW-43	39.11	27.31	1.89	5.66	21.44		
MW-44	33.85	24.86	1.44	4.32	16.33		
EW-E-R2	29.49	22.27	1.16	3.47	13.12		
EW-K-R	29.58	20.85	1.40	4.19	15.86		
EW-S	36.83	12.88	15.57	46.70	176.77		
EW-U	35.71	12.79	14.90	44.69	169.17		

Well Casing Volumes - gallons/foot water column (inside pipe diameter)

1 well volume: 0.04 g/ft. (1"); 0.16 g/ft. (2"); 0.65 g/ft. (4"); 1.47 g/ft. (6")

3 well volumes: 0.12 g/ft. (1"); 0.48 g/ft. (2"); 1.95 g/ft. (4"); 4.41 g/ft. (6")

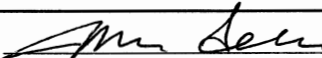
5 well volumes: 0.20 g/ft. (1"); 0.80 g/ft. (2"); 3.25 g/ft. (4"); 7.35 g/ft. (6")

Well casing volumes from EPA Region 4 Groundwater Sampling Operating Procedure, Table 3.2.1, 3/6/14

Comments:

Names of Field Personnel: Jeanne Sears

Signatures of Field Personnel:





GROUNDWATER SAMPLE LOG SHEET

Page of Project Site Name: Former Silverstein's Dry CleanersSample ID No.: MW-31Project No.: 02-14Sample Location: Silverstein☒ Monitoring Well DataSampled By: Janna Szwed☐ Extraction Well Data

Type of Sample:

☐ Other Well Type:☒ Low Concentration☐ QA Sample Type:☐ High Concentration

SAMPLING DATA:

Date: <u>2/22/17</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	GW
Time: <u>9:50</u>	Visual	S.U.	mS/cm	°C	NTU	mg/L	mV	Level
Sampling Method: Peristaltic pump using the "straw method"	<u>clear</u>	<u>7.53</u>	<u>0.477</u>	<u>19.92</u>	<u>32.8</u>	<u>0.93</u>	<u>-93.0</u>	<u>21.43</u>

PURGE DATA:

Date: <u>2/21/17 - 2/22/17</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	ORP	GW level
Method: Multiple Volume Purge	<u>2000</u>	<u>7.48</u>	<u>0.743</u>	<u>20.39</u>	<u>91.0</u>	<u>0.46</u>	<u>-199.2</u>	<u>16.70</u>
Teflon lined tubing	<u>4000</u>	<u>7.46</u>	<u>0.733</u>	<u>20.42</u>	<u>88.8</u>	<u>0.71</u>	<u>-186.2</u>	<u>18.41</u>
Well Casing Diameter & Material	<u>6000</u>	<u>7.43</u>	<u>0.726</u>	<u>20.52</u>	<u>73.7</u>	<u>0.32</u>	<u>-182.5</u>	<u>20.15</u>
Type: 2" PVC	<u>8000</u>	<u>7.40</u>	<u>0.656</u>	<u>20.51</u>	<u>56.3</u>	<u>0.23</u>	<u>-133.7</u>	<u>21.75</u>
Total Well Depth (TD): <u>26.26</u>	<u>10,000</u>	<u>7.37</u>	<u>0.659</u>	<u>20.30</u>	<u>130</u>	<u>0.83</u>	<u>-121.4</u>	<u>21.95</u>
Static Water Level (WL): <u>13.26</u>	<u>12,000</u>	<u>7.35</u>	<u>0.605</u>	<u>20.29</u>	<u>61.1</u>	<u>0.56</u>	<u>-143.9</u>	<u>22.20</u>
One Casing Volume (gal): <u>2.07</u>	<u>14,000</u>	<u>7.32</u>	<u>0.560</u>	<u>20.19</u>	<u>23.1</u>	<u>0.59</u>	<u>-166.7</u>	<u>22.65</u>
Start Purge (hrs): <u>16:00</u> <u>18:40</u>	<u>16,000</u>	<u>7.31</u>	<u>0.533</u>	<u>20.28</u>	<u>19.4</u>	<u>0.60</u>	<u>-167.0</u>	<u>23.00</u>
End Purge (hrs): <u>18:10</u> <u>19:50</u>								
Total Purge Time (min): <u>200</u>	<u>18,000</u>	<u>7.63</u>	<u>0.506</u>	<u>18.78</u>	<u>24.9</u>	<u>1.05</u>	<u>-79.2</u>	<u>17.10</u>
Total Vol. Purged (gal): <u>6.34</u>	<u>20,000</u>	<u>7.58</u>	<u>0.498</u>	<u>18.80</u>	<u>35.0</u>	<u>0.95</u>	<u>-82.8</u>	<u>18.80</u>
Depth of sampler: <u>23'</u>	<u>22,000</u>	<u>7.55</u>	<u>0.490</u>	<u>19.37</u>	<u>40.3</u>	<u>0.93</u>	<u>-80.9</u>	<u>20.19</u>
Starting water level day of	<u>23,000</u>	<u>7.54</u>	<u>0.482</u>	<u>19.65</u>	<u>41.3</u>	<u>0.95</u>	<u>-83.8</u>	<u>20.67</u>
sampling: <u>13.26</u> <u>13.23</u>	<u>24,000</u>	<u>7.53</u>	<u>0.477</u>	<u>19.92</u>	<u>32.8</u>	<u>0.93</u>	<u>-93.0</u>	<u>21.43</u>

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatile Organics (8260)	HCl	(2) 40-milliliter glass vials	<input checked="" type="checkbox"/>


Specifications:

Flow Rate: 120 mL/min. X 1/3785 = 0.0317 gal./min.Three casing volumes = 16.21 gallons x 3.785 = 23.5 liters

Screen Interval:

Notes:

Signature(s):

Signature(s): 

Signature(s): 



GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: Former Silverstein's Dry Cleaners
Project No.: 02-14
☒ [X] Monitoring Well Data
☐ [] Extraction Well Data
☐ [] Other Well Type:
☐ [] QA Sample Type:

Sample ID No.: EW-S
Sample Location: Silverstein
Sampled By: Jeanne Sears
Type of Sample:
☒ [X] Low Concentration
☐ [] High Concentration

SAMPLING DATA:

Date: <u>2/8/17</u>	Color Visual	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	GW Level
Time: <u>14:20</u>	<u>clear</u>	<u>7.07</u>	<u>0.120</u>	<u>20.08</u>	<u>6.73</u>	<u>1.89</u>	<u>237.8</u>	<u>13.41</u>
Sampling Method: Peristaltic pump using the "straw method"								

PURGE DATA:

Date: <u>2/8/17</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	ORP	GW level
Method: <u>Tubing in Screen Interval</u>	<u>2000</u>	<u>7.05</u>	<u>0.121</u>	<u>20.18</u>	<u>16.0</u>	<u>2.32</u>	<u>223.3</u>	<u>13.34</u>
Teflon lined tubing	<u>4000</u>	<u>7.11</u>	<u>0.121</u>	<u>19.90</u>	<u>15.0</u>	<u>2.19</u>	<u>226.3</u>	<u>13.30</u>
Well Casing Diameter & Material	<u>4000</u>	<u>7.12</u>	<u>0.121</u>	<u>19.98</u>	<u>13.3</u>	<u>2.15</u>	<u>230.6</u>	<u>13.37</u>
Type: <u>4" PVC</u>	<u>8000</u>	<u>7.11</u>	<u>0.120</u>	<u>19.92</u>	<u>12.9</u>	<u>2.10</u>	<u>231.1</u>	<u>13.35</u>
Total Well Depth (TD): <u>36.58</u>	<u>10000</u>	<u>7.11</u>	<u>0.121</u>	<u>19.97</u>	<u>9.62</u>	<u>2.02</u>	<u>232.4</u>	<u>13.36</u>
Static Water Level (WL): <u>12.95</u>	<u>12000</u>	<u>7.10</u>	<u>0.121</u>	<u>20.07</u>	<u>8.75</u>	<u>1.97</u>	<u>233.7</u>	<u>13.36</u>
One Casing Volume (gal): <u>11.3</u>	<u>14000</u>	<u>7.10</u>	<u>0.121</u>	<u>20.01</u>	<u>7.63</u>	<u>1.94</u>	<u>234.7</u>	<u>13.37</u>
Start Purge (hrs): <u>12:20</u>	<u>16000</u>	<u>7.09</u>	<u>0.120</u>	<u>19.99</u>	<u>7.51</u>	<u>1.90</u>	<u>235.1</u>	<u>13.39</u>
End Purge (hrs): <u>14:20</u>	<u>17000</u>	<u>7.09</u>	<u>0.120</u>	<u>20.02</u>	<u>8.03</u>	<u>1.91</u>	<u>235.9</u>	<u>13.39</u>
Total Purge Time (min): <u>120</u>	<u>18000</u>	<u>7.08</u>	<u>0.120</u>	<u>20.07</u>	<u>8.02</u>	<u>1.88</u>	<u>236.6</u>	<u>13.40</u>
Total Vol. Purged (gal): <u>5.28</u>	<u>19000</u>	<u>7.08</u>	<u>0.121</u>	<u>20.08</u>	<u>7.12</u>	<u>1.88</u>	<u>236.6</u>	<u>13.40</u>
Depth of sampler: <u>26'</u>	<u>20000</u>	<u>7.07</u>	<u>0.120</u>	<u>20.08</u>	<u>6.73</u>	<u>1.89</u>	<u>237.8</u>	<u>13.41</u>

Starting water level day of

sampling: 12.95

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatile Organics (8260)	HCl	(2) 40-milliliter glass vials	✓

Specifications:

Flow Rate: 1166.7 mL/min. X 1/3785 = 0.0440 gal./min.Three casing volumes = 46.1 gallons x 3.785 = 174.4 liters

Screen Interval:

Notes:

Signature(s):

JULY 2017
FIELD SAMPLING LOGS

AECS, INC.**WELL INSPECTION/WATER LEVEL MEASUREMENT FORM**

Site Name: Former Silverstein's Dry Cleaners
Address: 2716 Washington Road
Augusta, GA

Date: July 17, 2017
Time: 12:30 - 14:30

Special Instructions (All level measurements to be from Top of Casing)

Monitoring Well:	Total Depth (ft.BTOC)	Water Level (ft. BTOC)	One Well Volume gal.	Three Well Volume gal.	Three Well Volume liters	Well Status	Notes
W-3-R	29.46	19.96	1.52	4.56	17.26		
MW-8	25.59	18.17	1.19	3.56	13.48		
MW-13-R2	29.01	15.53	2.16	6.47	24.49		
MW-14-R2	24.60	18.08	1.04	3.13	11.85		
MW-18-R	28.83	22.55	1.00	3.01	11.41		
MW-22-R2	29.69	22.61	1.13	3.40	12.86		
MW-25-R	21.88	15.00	1.10	3.30	12.50		
MW-35	15.42	11.90	0.56	1.69	6.40		
MW-41	26.50	12.47	2.24	6.73	25.49		
MW-42-R	29.66	14.79	2.38	7.14	27.02		
MW-43	39.13	26.75	1.98	5.94	22.49		
MW-44	33.85	23.61	1.64	4.92	18.60		
EW-E-R2	29.50	21.42	1.29	3.88	14.68		
EW-K-R	29.14	19.91	1.48	4.43	16.77		
EW-S	36.84	12.27	15.97	47.91	181.35		
EW-U	35.78	11.98	15.47	46.41	175.66		

Well Casing Volumes - gallons/foot water column (inside pipe diameter)

1 well volume: 0.04 g/ft. (1"); 0.16 g/ft. (2"); 0.65 g/ft. (4"); 1.47 g/ft. (6")

3 well volumes: 0.12 g/ft. (1"); 0.48 g/ft. (2"); 1.95 g/ft. (4"); 4.41 g/ft. (6")

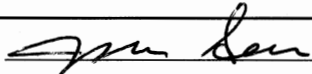
5 well volumes: 0.20 g/ft. (1"); 0.80 g/ft. (2"); 3.25 g/ft. (4"); 7.35 g/ft. (6")

Well casing volumes from EPA Region 4 Groundwater Sampling Operating Procedure, Table 3.2.1, 3/6/14

Comments: _____

Names of Field Personnel: Jeanne Sears

Signatures of Field Personnel: _____





GROUNDWATER SAMPLE LOG SHEET

Page __ of __

Project Site Name: Former Silverstein's Dry CleanersSample ID No.: MW-8Project No.: 02-14Sample Location: Silverstein☒ Monitoring Well DataSampled By: Jeanne Sears☐ QA Sample Type:

SAMPLING DATA:

Date: <u>7/24/17</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	GW
Time: <u>18:55</u>	Visual	S.U.	mS/cm	°C	NTU	mg/L	mV	Level
Sampling Method: Peristaltic pump using the "straw method"	<u>clear</u>	<u>6.93</u>	<u>0.512</u>	<u>23.65</u>	<u>1.73</u>	<u>1.14</u>	<u>125.9</u>	<u>18.41</u>

PURGE DATA:

Date: <u>7/24/17</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	ORP	GW level
Method: Multiple Volume Purge	<u>2000</u>	<u>6.93</u>	<u>0.506</u>	<u>24.21</u>	<u>12.16</u>	<u>1.65</u>	<u>92.3</u>	<u>18.30</u>
Teflon lined tubing	<u>4000</u>	<u>6.93</u>	<u>0.502</u>	<u>24.17</u>	<u>8.13</u>	<u>1.49</u>	<u>98.9</u>	<u>18.33</u>
Well Casing Diameter & Material	<u>6000</u>	<u>6.92</u>	<u>0.508</u>	<u>24.10</u>	<u>5.64</u>	<u>1.34</u>	<u>106.7</u>	<u>18.34</u>
Type: 2" PVC	<u>7000</u>	<u>6.92</u>	<u>0.507</u>	<u>24.02</u>	<u>4.54</u>	<u>1.30</u>	<u>109.8</u>	<u>18.35</u>
Total Well Depth (TD): <u>25.59</u>	<u>8000</u>	<u>6.92</u>	<u>0.510</u>	<u>23.94</u>	<u>3.38</u>	<u>1.25</u>	<u>112.9</u>	<u>18.36</u>
Static Water Level (WL): <u>18.17</u>	<u>9000</u>	<u>6.93</u>	<u>0.513</u>	<u>23.89</u>	<u>2.88</u>	<u>1.23</u>	<u>114.5</u>	<u>18.38</u>
One Casing Volume(gal): <u>1.19</u>	<u>10000</u>	<u>6.93</u>	<u>0.513</u>	<u>23.81</u>	<u>2.63</u>	<u>1.20</u>	<u>117.1</u>	<u>18.38</u>
Start Purge (hrs): <u>17:30</u>	<u>11000</u>	<u>6.93</u>	<u>0.512</u>	<u>23.78</u>	<u>2.31</u>	<u>1.19</u>	<u>119.0</u>	<u>18.39</u>
End Purge (hrs): <u>18:55</u>	<u>12000</u>	<u>6.94</u>	<u>0.512</u>	<u>23.69</u>	<u>2.46</u>	<u>1.17</u>	<u>121.7</u>	<u>18.40</u>
Total Purge Time (min):	<u>13000</u>	<u>6.93</u>	<u>0.512</u>	<u>23.65</u>	<u>1.75</u>	<u>1.14</u>	<u>124.8</u>	<u>18.40</u>
Total Vol. Purged (gal): <u>3.70</u>	<u>14000</u>	<u>6.93</u>	<u>0.512</u>	<u>23.65</u>	<u>1.73</u>	<u>1.14</u>	<u>125.9</u>	<u>18.41</u>

Depth of sampler:

Starting water level day of

sampling: 18.00

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatile Organics (8260)	HCl	(2) 40-milliliter glass vials	

Specifications:

Flow Rate: _____ mL/min. X 1/3785 = _____ gal./min.

Three casing volumes = 3.56 gallons x 3.785 = 13.48 liters

Screen Interval: 15-25'

Notes:

Signature(s):



GROUNDWATER SAMPLE LOG SHEET

Page of Project Site Name: Former Silverstein's Dry CleanersSample ID No.: **MW-14-R2**Project No.: 02-14Sample Location: Silverstein☒ Monitoring Well DataSampled By: Jeanne Sears☐ QA Sample Type:

SAMPLING DATA:

Date: <u>7/18/17</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	GW
Time: <u>10:55</u>	Visual	S.U.	mS/cm	°C	NTU	mg/L	mV	Level
Sampling Method: Peristaltic pump using the "straw method"	<u>clear</u>	<u>6.68</u>	<u>0.388</u>	<u>25.76</u>	<u>0.88</u>	<u>1.82</u>	<u>196.6</u>	<u>18.18</u>

PURGE DATA:

Date: <u>7/18/17</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	ORP	GW level
Method: Multiple Volume Purge	<u>2000</u>	<u>6.69</u>	<u>0.391</u>	<u>25.46</u>	<u>1.43</u>	<u>1.95</u>	<u>174.7</u>	<u>18.16</u>
Teflon lined tubing	<u>3000</u>	<u>6.70</u>	<u>0.386</u>	<u>24.94</u>	<u>1.19</u>	<u>1.96</u>	<u>186.1</u>	<u>18.16</u>
Well Casing Diameter & Material	<u>4000</u>	<u>6.69</u>	<u>0.390</u>	<u>25.62</u>	<u>1.07</u>	<u>1.79</u>	<u>189.1</u>	<u>18.17</u>
Type: 2" PVC	<u>5000</u>	<u>6.69</u>	<u>0.391</u>	<u>25.92</u>	<u>1.10</u>	<u>1.76</u>	<u>190.0</u>	<u>18.17</u>
Total Well Depth (TD): <u>24.60</u>	<u>6000</u>	<u>6.69</u>	<u>0.393</u>	<u>26.18</u>	<u>0.91</u>	<u>1.78</u>	<u>191.1</u>	<u>18.17</u>
Static Water Level (WL): <u>18.08</u>	<u>7000</u>	<u>6.68</u>	<u>0.394</u>	<u>26.36</u>	<u>0.94</u>	<u>1.79</u>	<u>191.0</u>	<u>18.17</u>
One Casing Volume(gal): <u>1.04</u>	<u>8000</u>	<u>6.68</u>	<u>0.396</u>	<u>26.51</u>	<u>1.03</u>	<u>1.77</u>	<u>191.3</u>	<u>18.17</u>
Start Purge (hrs): <u>9:20</u>	<u>9000</u>	<u>6.68</u>	<u>0.393</u>	<u>26.25</u>	<u>0.91</u>	<u>1.77</u>	<u>191.7</u>	<u>18.17</u>
End Purge (hrs): <u>10:55</u>	<u>10000</u>	<u>6.68</u>	<u>0.394</u>	<u>26.34</u>	<u>0.89</u>	<u>1.75</u>	<u>193.8</u>	<u>18.18</u>
Total Purge Time (min): <u>95</u>	<u>11000</u>	<u>6.68</u>	<u>0.393</u>	<u>26.45</u>	<u>0.92</u>	<u>1.75</u>	<u>194.2</u>	<u>18.18</u>
Total Vol. Purged (gal): <u>3.17</u>	<u>12000</u>	<u>6.68</u>	<u>0.388</u>	<u>25.76</u>	<u>0.88</u>	<u>1.82</u>	<u>196.6</u>	<u>18.18</u>
Depth of sampler: <u>19.5'</u>								
Starting water level day of								
sampling: <u>18.10</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatile Organics (8260)	HCl	(2) 40-milliliter glass vials	<input checked="" type="checkbox"/>

Specifications:

Flow Rate: 126.3 mL/min. X 1/3785 = 0.0334 gal./min.Three casing volumes = 3.13 gallons x 3.785 = 11.85 liters

Screen Interval: 15-25'

Notes:

Signature(s):

Jeanne Sears

Signature(s): John Lee

Signature(s): 



GROUNDWATER SAMPLE LOG SHEET

Page of Project Site Name: Former Silverstein's Dry CleanersSample ID No.: EW-K-RProject No.: 02-14Sample Location: Silverstein☒ [X] Monitoring Well DataSampled By: Joanna Soares☒ QA Sample Type: BDS-2

SAMPLING DATA:

Date: <u>7/25/17</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	GW
Time: <u>12:40</u>	Visual	S.U.	mS/cm	°C	NTU	mg/L	mV	Level
Sampling Method: Peristaltic pump using the "straw method"	<u>clear</u>	<u>6.78</u>	<u>0.650</u>	<u>28.34</u>	<u>1.47</u>	<u>1.34</u>	<u>49.7</u>	<u>20.08</u>

PURGE DATA:

Date: <u>7/25/17</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	ORP	GW level
Method: <u>Multiple Volume Purge</u>	<u>2000</u>	<u>6.45</u>	<u>0.470</u>	<u>28.22</u>	<u>8.87</u>	<u>1.71</u>	<u>77.3</u>	<u>20.08</u>
Teflon lined tubing	<u>4000</u>	<u>6.98</u>	<u>0.573</u>	<u>28.34</u>	<u>3.24</u>	<u>1.40</u>	<u>68.6</u>	<u>20.09</u>
Well Casing Diameter & Material	<u>6000</u>	<u>6.62</u>	<u>0.593</u>	<u>28.11</u>	<u>5.09</u>	<u>1.32</u>	<u>64.7</u>	<u>20.09</u>
Type: <u>2" PVC</u>	<u>8000</u>	<u>6.86</u>	<u>0.595</u>	<u>28.15</u>	<u>1.99</u>	<u>1.27</u>	<u>59.9</u>	<u>20.09</u>
Total Well Depth (TD): <u>29.14</u>	<u>10000</u>	<u>6.70</u>	<u>0.611</u>	<u>28.07</u>	<u>1.67</u>	<u>1.22</u>	<u>57.0</u>	<u>20.09</u>
Static Water Level (WL): <u>19.91</u>	<u>12000</u>	<u>6.71</u>	<u>0.613</u>	<u>28.23</u>	<u>1.53</u>	<u>1.25</u>	<u>56.1</u>	<u>20.09</u>
One Casing Volume(gal): <u>1.48</u>	<u>13000</u>	<u>6.72</u>	<u>0.617</u>	<u>28.00</u>	<u>1.25</u>	<u>1.31</u>	<u>54.9</u>	<u>20.09</u>
Start Purge (hrs): <u>11:25</u>	<u>14000</u>	<u>6.74</u>	<u>0.631</u>	<u>28.17</u>	<u>1.06</u>	<u>1.33</u>	<u>53.1</u>	<u>20.09</u>
End Purge (hrs): <u>12:40</u>	<u>15000</u>	<u>6.76</u>	<u>0.634</u>	<u>28.20</u>	<u>3.21</u>	<u>1.30</u>	<u>51.8</u>	<u>20.08</u>
Total Purge Time (min): <u>75</u>	<u>16000</u>	<u>6.77</u>	<u>0.640</u>	<u>28.14</u>	<u>2.12</u>	<u>1.32</u>	<u>50.9</u>	<u>20.08</u>
Total Vol. Purged (gal): <u>4.49</u>	<u>17000</u>	<u>6.78</u>	<u>0.650</u>	<u>28.34</u>	<u>1.47</u>	<u>1.34</u>	<u>49.7</u>	<u>20.08</u>

Depth of sampler: 21.1'

Starting water level day of

sampling: 19.90

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatile Organics (8260)	HCl	(2) 40-milliliter glass vials	<input checked="" type="checkbox"/>


Specifications:

Flow Rate: 226.7 mL/min. X 1/3785 = 0.0599 gal./min.Three casing volumes = 4.43 gallons x 3.785 = 16.77 liters

Screen Interval: 20-30'

Notes:

Signature(s): [Signature]

nature(s): 

SEPTEMBER 2015
FIELD SAMPLING LOGS

APPENDIX G

LABORATORY REPORTS

APPENDIX G.1

FORMER FROHMAN PROPERTY - NOVEMBER 2016 SAMPLING EVENT LABORATORY REPORT



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 07, 2016

Rodger Daniel
American Environmental & Construction Services Inc
1170 Tidwell Rd
Alpharetta GA 30004

TEL: (770) 754-6440
FAX: (770) 754-9892

RE: Silverstein

Dear Rodger Daniel:

Order No: 1612015

Analytical Environmental Services, Inc. received 6 samples on 12/1/2016 9:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Ioana Pacurar
Project Manager

Date: 11/30/16 Page 1 of 1

COMPANY: AECS		ADDRESS: 1170 Tidwell Rd. Alpharetta, GA 30004		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers			
PHONE: 770-754-6440		FAX:		VOC SW8260B													
SAMPLED BY: Jeanne Sears		SIGNATURE: 		PRESERVATION (See codes)								REMARKS					
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)											
1	MW-39	11/30/16	10:15	X		GW	X										2
2	MW-38	11/30/16	12:10	X		GW	X										2
3	MW-40	11/30/16	12:05	X		GW	X										2
4	MW-37	11/30/16	15:00	X		GW	X										2
5	PBW-3	11/30/16	14:15	X		GW	X										2
6	Trip Blank						X										2
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY 		DATE/TIME 12/1/16 9:55	RECEIVED BY 		DATE/TIME 12/1/16 9:55 am		PROJECT INFORMATION PROJECT NAME: Silverstein PROJECT #: 02-14 SITE ADDRESS: 2716 Washington Rd., Augusta, GA SEND REPORT TO: R Daniel, B Dixon, J Sears, C Welty, K Cooper INVOICE TO: Brink Miller (IF DIFFERENT FROM ABOVE) QUOTE #: PO#:								RECEIPT Total # of Containers 12 Turnaround Time Request <input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) Other STATE PROGRAM (if any): E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>		
SPECIAL INSTRUCTIONS/COMMENTS:			SHIPMENT METHOD OUT / / VIA: IN / / VIA: <input checked="" type="radio"/> CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER														
SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.																	

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 7-Dec-16

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1612015-001

Client Sample ID: MW-39
Collection Date: 11/30/2016 10:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,1-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,1-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,2-Dibromoethane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,2-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,2-Dichloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
2-Butanone	BRL	50		ug/L	234135	1	12/02/2016 18:36	NH
2-Hexanone	BRL	10		ug/L	234135	1	12/02/2016 18:36	NH
4-Methyl-2-pentanone	BRL	10		ug/L	234135	1	12/02/2016 18:36	NH
Acetone	BRL	50		ug/L	234135	1	12/02/2016 18:36	NH
Benzene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Bromodichloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Bromoform	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Bromomethane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Carbon disulfide	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Carbon tetrachloride	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Chlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Chloroethane	BRL	10		ug/L	234135	1	12/02/2016 18:36	NH
Chloroform	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Chloromethane	BRL	10		ug/L	234135	1	12/02/2016 18:36	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Cyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Dibromochloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Dichlorodifluoromethane	BRL	10		ug/L	234135	1	12/02/2016 18:36	NH
Ethylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Freon-113	BRL	10		ug/L	234135	1	12/02/2016 18:36	NH
Isopropylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
m,p-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Methyl acetate	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Methylcyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Methylene chloride	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
o-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Dec-16

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-39
Project Name:	Silverstein	Collection Date:	11/30/2016 10:15:00 AM
Lab ID:	1612015-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Tetrachloroethene	7.5	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Toluene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Trichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Trichlorofluoromethane	22	5.0		ug/L	234135	1	12/02/2016 18:36	NH
Vinyl chloride	BRL	2.0		ug/L	234135	1	12/02/2016 18:36	NH
Surr: 4-Bromofluorobenzene	110	66.1-129		%REC	234135	1	12/02/2016 18:36	NH
Surr: Dibromofluoromethane	105	83.6-123		%REC	234135	1	12/02/2016 18:36	NH
Surr: Toluene-d8	90.9	81.8-118		%REC	234135	1	12/02/2016 18:36	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Dec-16

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-38
Project Name: Silverstein	Collection Date: 11/30/2016 12:10:00 PM
Lab ID: 1612015-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,1-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,1-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,2-Dibromoethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,2-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,2-Dichloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
2-Butanone	BRL	50		ug/L	234135	1	12/02/2016 19:04	NH
2-Hexanone	BRL	10		ug/L	234135	1	12/02/2016 19:04	NH
4-Methyl-2-pentanone	BRL	10		ug/L	234135	1	12/02/2016 19:04	NH
Acetone	BRL	50		ug/L	234135	1	12/02/2016 19:04	NH
Benzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Bromodichloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Bromoform	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Bromomethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Carbon disulfide	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Carbon tetrachloride	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Chlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Chloroethane	BRL	10		ug/L	234135	1	12/02/2016 19:04	NH
Chloroform	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Chloromethane	BRL	10		ug/L	234135	1	12/02/2016 19:04	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Cyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Dibromochloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Dichlorodifluoromethane	BRL	10		ug/L	234135	1	12/02/2016 19:04	NH
Ethylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Freon-113	BRL	10		ug/L	234135	1	12/02/2016 19:04	NH
Isopropylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
m,p-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Methyl acetate	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Methylcyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Methylene chloride	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
o-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Dec-16

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-38
Project Name:	Silverstein	Collection Date:	11/30/2016 12:10:00 PM
Lab ID:	1612015-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Tetrachloroethene	13	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Toluene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Trichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Trichlorofluoromethane	28	5.0		ug/L	234135	1	12/02/2016 19:04	NH
Vinyl chloride	BRL	2.0		ug/L	234135	1	12/02/2016 19:04	NH
Surr: 4-Bromofluorobenzene	109	66.1-129		%REC	234135	1	12/02/2016 19:04	NH
Surr: Dibromofluoromethane	106	83.6-123		%REC	234135	1	12/02/2016 19:04	NH
Surr: Toluene-d8	87.2	81.8-118		%REC	234135	1	12/02/2016 19:04	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Dec-16

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-40
Project Name: Silverstein	Collection Date: 11/30/2016 12:05:00 PM
Lab ID: 1612015-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,1-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,1-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,2-Dibromoethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,2-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,2-Dichloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
2-Butanone	BRL	50		ug/L	234135	1	12/02/2016 19:32	NH
2-Hexanone	BRL	10		ug/L	234135	1	12/02/2016 19:32	NH
4-Methyl-2-pentanone	BRL	10		ug/L	234135	1	12/02/2016 19:32	NH
Acetone	BRL	50		ug/L	234135	1	12/02/2016 19:32	NH
Benzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Bromodichloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Bromoform	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Bromomethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Carbon disulfide	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Carbon tetrachloride	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Chlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Chloroethane	BRL	10		ug/L	234135	1	12/02/2016 19:32	NH
Chloroform	5.2	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Chloromethane	BRL	10		ug/L	234135	1	12/02/2016 19:32	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Cyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Dibromochloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Dichlorodifluoromethane	BRL	10		ug/L	234135	1	12/02/2016 19:32	NH
Ethylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Freon-113	BRL	10		ug/L	234135	1	12/02/2016 19:32	NH
Isopropylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
m,p-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Methyl acetate	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Methylcyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Methylene chloride	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
o-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Dec-16

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-40
Project Name:	Silverstein	Collection Date:	11/30/2016 12:05:00 PM
Lab ID:	1612015-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Tetrachloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Toluene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Trichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Trichlorofluoromethane	BRL	5.0		ug/L	234135	1	12/02/2016 19:32	NH
Vinyl chloride	BRL	2.0		ug/L	234135	1	12/02/2016 19:32	NH
Surr: 4-Bromofluorobenzene	109	66.1-129		%REC	234135	1	12/02/2016 19:32	NH
Surr: Dibromofluoromethane	112	83.6-123		%REC	234135	1	12/02/2016 19:32	NH
Surr: Toluene-d8	98	81.8-118		%REC	234135	1	12/02/2016 19:32	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 7-Dec-16

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-37
Project Name: Silverstein	Collection Date: 11/30/2016 3:00:00 PM
Lab ID: 1612015-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,1-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,1-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,2-Dibromoethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,2-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,2-Dichloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
2-Butanone	BRL	50		ug/L	234135	1	12/02/2016 20:00	NH
2-Hexanone	BRL	10		ug/L	234135	1	12/02/2016 20:00	NH
4-Methyl-2-pentanone	BRL	10		ug/L	234135	1	12/02/2016 20:00	NH
Acetone	BRL	50		ug/L	234135	1	12/02/2016 20:00	NH
Benzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Bromodichloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Bromoform	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Bromomethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Carbon disulfide	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Carbon tetrachloride	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Chlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Chloroethane	BRL	10		ug/L	234135	1	12/02/2016 20:00	NH
Chloroform	7.0	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Chloromethane	BRL	10		ug/L	234135	1	12/02/2016 20:00	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Cyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Dibromochloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Dichlorodifluoromethane	BRL	10		ug/L	234135	1	12/02/2016 20:00	NH
Ethylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Freon-113	BRL	10		ug/L	234135	1	12/02/2016 20:00	NH
Isopropylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
m,p-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Methyl acetate	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Methylcyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Methylene chloride	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
o-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 7-Dec-16

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-37
Project Name: Silverstein	Collection Date: 11/30/2016 3:00:00 PM
Lab ID: 1612015-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Tetrachloroethene	15	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Toluene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Trichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Trichlorofluoromethane	15	5.0		ug/L	234135	1	12/02/2016 20:00	NH
Vinyl chloride	BRL	2.0		ug/L	234135	1	12/02/2016 20:00	NH
Surr: 4-Bromofluorobenzene	110	66.1-129		%REC	234135	1	12/02/2016 20:00	NH
Surr: Dibromofluoromethane	108	83.6-123		%REC	234135	1	12/02/2016 20:00	NH
Surr: Toluene-d8	98.6	81.8-118		%REC	234135	1	12/02/2016 20:00	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 7-Dec-16

Client: American Environmental & Construction Services Inc	Client Sample ID: PMW-3
Project Name: Silverstein	Collection Date: 11/30/2016 2:15:00 PM
Lab ID: 1612015-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,1-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,1-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,2-Dibromoethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,2-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,2-Dichloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
2-Butanone	BRL	50		ug/L	234135	1	12/02/2016 20:27	NH
2-Hexanone	BRL	10		ug/L	234135	1	12/02/2016 20:27	NH
4-Methyl-2-pentanone	BRL	10		ug/L	234135	1	12/02/2016 20:27	NH
Acetone	BRL	50		ug/L	234135	1	12/02/2016 20:27	NH
Benzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Bromodichloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Bromoform	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Bromomethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Carbon disulfide	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Carbon tetrachloride	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Chlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Chloroethane	BRL	10		ug/L	234135	1	12/02/2016 20:27	NH
Chloroform	7.1	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Chloromethane	BRL	10		ug/L	234135	1	12/02/2016 20:27	NH
cis-1,2-Dichloroethene	5.4	5.0		ug/L	234135	1	12/02/2016 20:27	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Cyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Dibromochloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Dichlorodifluoromethane	BRL	10		ug/L	234135	1	12/02/2016 20:27	NH
Ethylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Freon-113	BRL	10		ug/L	234135	1	12/02/2016 20:27	NH
Isopropylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
m,p-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Methyl acetate	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Methylcyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Methylene chloride	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
o-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Dec-16

Client:	American Environmental & Construction Services Inc	Client Sample ID:	PMW-3
Project Name:	Silverstein	Collection Date:	11/30/2016 2:15:00 PM
Lab ID:	1612015-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Tetrachloroethene	49	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Toluene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Trichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Trichlorofluoromethane	BRL	5.0		ug/L	234135	1	12/02/2016 20:27	NH
Vinyl chloride	BRL	2.0		ug/L	234135	1	12/02/2016 20:27	NH
Surr: 4-Bromofluorobenzene	109	66.1-129		%REC	234135	1	12/02/2016 20:27	NH
Surr: Dibromofluoromethane	114	83.6-123		%REC	234135	1	12/02/2016 20:27	NH
Surr: Toluene-d8	99.8	81.8-118		%REC	234135	1	12/02/2016 20:27	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 7-Dec-16

Client: American Environmental & Construction Services Inc	Client Sample ID: TRIP BLANK
Project Name: Silverstein	Collection Date: 12/1/2016
Lab ID: 1612015-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,1-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,1-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,2-Dibromoethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,2-Dichloroethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,2-Dichloropropane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
2-Butanone	BRL	50		ug/L	234135	1	12/02/2016 13:57	NH
2-Hexanone	BRL	10		ug/L	234135	1	12/02/2016 13:57	NH
4-Methyl-2-pentanone	BRL	10		ug/L	234135	1	12/02/2016 13:57	NH
Acetone	BRL	50		ug/L	234135	1	12/02/2016 13:57	NH
Benzene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Bromodichloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Bromoform	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Bromomethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Carbon disulfide	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Carbon tetrachloride	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Chlorobenzene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Chloroethane	BRL	10		ug/L	234135	1	12/02/2016 13:57	NH
Chloroform	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Chloromethane	BRL	10		ug/L	234135	1	12/02/2016 13:57	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Cyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Dibromochloromethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Dichlorodifluoromethane	BRL	10		ug/L	234135	1	12/02/2016 13:57	NH
Ethylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Freon-113	BRL	10		ug/L	234135	1	12/02/2016 13:57	NH
Isopropylbenzene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
m,p-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Methyl acetate	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Methylcyclohexane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Methylene chloride	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
o-Xylene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 7-Dec-16

Client: American Environmental & Construction Services Inc	Client Sample ID: TRIP BLANK
Project Name: Silverstein	Collection Date: 12/1/2016
Lab ID: 1612015-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Tetrachloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Toluene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Trichloroethene	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Trichlorofluoromethane	BRL	5.0		ug/L	234135	1	12/02/2016 13:57	NH
Vinyl chloride	BRL	2.0		ug/L	234135	1	12/02/2016 13:57	NH
Surr: 4-Bromofluorobenzene	110	66.1-129		%REC	234135	1	12/02/2016 13:57	NH
Surr: Dibromofluoromethane	115	83.6-123		%REC	234135	1	12/02/2016 13:57	NH
Surr: Toluene-d8	101	81.8-118		%REC	234135	1	12/02/2016 13:57	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client AECs

Work Order Number 1012015

Checklist completed by M. Palmer 12/1/16
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}C$) * Yes ☒ No ☐

Cooler #1 1-8 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\\Sample Receipt\\My Documents\\COCs and pH Adjustment Sheet\\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1612015

ANALYTICAL QC SUMMARY REPORT**BatchID: 234135**

Sample ID: MB-234135	Client ID:				Units: ug/L	Prep Date: 12/02/2016	Run No: 331313				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 234135	Analysis Date: 12/02/2016	Seq No: 7210168				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1612015

ANALYTICAL QC SUMMARY REPORT

BatchID: 234135

Sample ID: MB-234135	Client ID:					Units: ug/L	Prep Date: 12/02/2016		Run No: 331313		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B				BatchID: 234135	Analysis Date: 12/02/2016		Seq No: 7210168		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	55.40	0	50.00		111	66.1	129				
Surr: Dibromofluoromethane	56.67	0	50.00		113	83.6	123				
Surr: Toluene-d8	50.84	0	50.00		102	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1612015

ANALYTICAL QC SUMMARY REPORT**BatchID: 234135**

Sample ID: LCS-234135	Client ID:					Units: ug/L	Prep Date: 12/02/2016	Run No: 331313			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 234135	Analysis Date: 12/02/2016	Seq No: 7210167			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	41.72	5.0	50.00		83.4	68	139				
Benzene	44.74	5.0	50.00		89.5	74	125				
Chlorobenzene	46.08	5.0	50.00		92.2	75.7	123				
Toluene	43.46	5.0	50.00		86.9	75.9	126				
Trichloroethene	46.81	5.0	50.00		93.6	70.6	129				
Surr: 4-Bromofluorobenzene	53.87	0	50.00		108	66.1	129				
Surr: Dibromofluoromethane	52.40	0	50.00		105	83.6	123				
Surr: Toluene-d8	45.69	0	50.00		91.4	81.8	118				

Sample ID: 1612137-002AMS	Client ID:				Units: ug/L	Prep Date: 12/02/2016	Run No: 331444				
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 234135	Analysis Date: 12/06/2016	Seq No: 7214085				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	64.31	5.0	50.00		129	64.3	149				
Benzene	57.97	5.0	50.00		116	71.6	132				
Chlorobenzene	49.31	5.0	50.00		98.6	73.1	126				
Toluene	60.89	5.0	50.00		122	72.5	135				
Trichloroethene	55.80	5.0	50.00		112	70.2	132				
Surr: 4-Bromofluorobenzene	47.26	0	50.00		94.5	66.1	129				
Surr: Dibromofluoromethane	46.90	0	50.00		93.8	83.6	123				
Surr: Toluene-d8	44.28	0	50.00		88.6	81.8	118				

Sample ID: 1612137-002AMSD	Client ID:					Units: ug/L	Prep Date: 12/02/2016	Run No: 331444			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 234135	Analysis Date: 12/06/2016	Seq No: 7214160			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.03	5.0	50.00		122	64.3	149	64.31	5.23	30.8	
Benzene	53.76	5.0	50.00		108	71.6	132	57.97	7.54	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1612015

ANALYTICAL QC SUMMARY REPORT

BatchID: 234135

Sample ID: 1612137-002AMSD	Client ID:	Units: ug/L	Prep Date: 12/02/2016	Run No: 331444							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 234135	Analysis Date: 12/06/2016	Seq No: 7214160							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	49.04	5.0	50.00		98.1	73.1	126	49.31	0.549	26.6	
Toluene	52.46	5.0	50.00		105	72.5	135	60.89	14.9	23.2	
Trichloroethene	53.95	5.0	50.00		108	70.2	132	55.80	3.37	27.7	
Surr: 4-Bromofluorobenzene	42.05	0	50.00		84.1	66.1	129	47.26	0	0	
Surr: Dibromofluoromethane	48.89	0	50.00		97.8	83.6	123	46.90	0	0	
Surr: Toluene-d8	44.45	0	50.00		88.9	81.8	118	44.28	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

APPENDIX G.2

FEBRUARY 2017 SEMI-ANNUAL SAMPLING EVENT LABORATORY REPORTS



AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1702760

Date: 2/8/17 Page 1 of 1

COMPANY: AECS		ADDRESS: 1170 Tidwell Rd. Alpharetta, GA 30004		ANALYSIS REQUESTED												Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: 770-754-6440		FAX:		<div style="display: flex;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOC SW8260B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEL P VOC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEL P METALS</div> </div>															
SAMPLED BY: Jeanne Sears		SIGNATURE: <i>Jeanne Sears</i>		PRESERVATION (See codes)												REMARKS			
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)													
		DATE	TIME																
1	MW-8	2/7/17	11:04	X		GW	X											2	
2	EW-4	2/7/17	16:13	X		GW	X											2	
3	EW-5	2/8/17	14:20	X		GW	X											2	
4	MW-25R	2/8/17	16:12	X		GW	X											2	
5	Soil Cuttings	2/8/17	17:00	X		SO		X	X									2	
6	Trip blank						X											2	
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

RELINQUISHED BY: <i>[Signature]</i> DATE/TIME: 2:35 2/9/17		RECEIVED BY: <i>[Signature]</i> DATE/TIME: 2/9/17 2:37		PROJECT INFORMATION		RECEIPT	
1: <i>[Signature]</i>		1: <i>[Signature]</i>		PROJECT NAME: Silverstein		Total # of Containers: 12	
2: <i>[Signature]</i>		2: <i>[Signature]</i>		PROJECT #: 02-14		Turnaround Time Request <input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) Other:	
3: <i>[Signature]</i>		3: <i>[Signature]</i>		SITE ADDRESS: 2716 Washington Rd., Augusta, GA			
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SEND REPORT TO: R Daniel, B Dixon, J Sears, C Welty, K Cooper		STATE PROGRAM (if any):	
		OUT / / VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER		INVOICE TO: Brink Miller (IF DIFFERENT FROM ABOVE)		E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>	
				QUOTE #: PO#:		DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1702760-001

Client Sample ID: MW-8
Collection Date: 2/7/2017 11:04:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,1-Dichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,1-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,2-Dibromoethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,2-Dichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,2-Dichloropropane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
2-Butanone	BRL	50		ug/L	237974	1	02/14/2017 05:51	BN
2-Hexanone	BRL	10		ug/L	237974	1	02/14/2017 05:51	BN
4-Methyl-2-pentanone	BRL	10		ug/L	237974	1	02/14/2017 05:51	BN
Acetone	BRL	50		ug/L	237974	1	02/14/2017 05:51	BN
Benzene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Bromodichloromethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Bromoform	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Bromomethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Carbon disulfide	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Carbon tetrachloride	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Chlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Chloroethane	BRL	10		ug/L	237974	1	02/14/2017 05:51	BN
Chloroform	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Chloromethane	BRL	3.0		ug/L	237974	1	02/14/2017 05:51	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Cyclohexane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Dibromochloromethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Dichlorodifluoromethane	BRL	10		ug/L	237974	1	02/14/2017 05:51	BN
Ethylbenzene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Freon-113	BRL	10		ug/L	237974	1	02/14/2017 05:51	BN
Isopropylbenzene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
m,p-Xylene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Methyl acetate	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Methylcyclohexane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Methylene chloride	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
o-Xylene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-8
Project Name:	Silverstein	Collection Date:	2/7/2017 11:04:00 AM
Lab ID:	1702760-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Tetrachloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Toluene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Trichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Trichlorofluoromethane	BRL	5.0		ug/L	237974	1	02/14/2017 05:51	BN
Vinyl chloride	BRL	2.0		ug/L	237974	1	02/14/2017 05:51	BN
Surr: 4-Bromofluorobenzene	88.2	66.1-129		%REC	237974	1	02/14/2017 05:51	BN
Surr: Dibromofluoromethane	104	83.6-123		%REC	237974	1	02/14/2017 05:51	BN
Surr: Toluene-d8	104	81.8-118		%REC	237974	1	02/14/2017 05:51	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	EW-U
Project Name:	Silverstein	Collection Date:	2/7/2017 4:13:00 PM
Lab ID:	1702760-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,1-Dichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,1-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,2-Dibromoethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,2-Dichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,2-Dichloropropane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
2-Butanone	BRL	50		ug/L	237974	1	02/14/2017 06:20	BN
2-Hexanone	BRL	10		ug/L	237974	1	02/14/2017 06:20	BN
4-Methyl-2-pentanone	BRL	10		ug/L	237974	1	02/14/2017 06:20	BN
Acetone	BRL	50		ug/L	237974	1	02/14/2017 06:20	BN
Benzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Bromodichloromethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Bromoform	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Bromomethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Carbon disulfide	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Carbon tetrachloride	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Chlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Chloroethane	BRL	10		ug/L	237974	1	02/14/2017 06:20	BN
Chloroform	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Chloromethane	BRL	3.0		ug/L	237974	1	02/14/2017 06:20	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Cyclohexane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Dibromochloromethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Dichlorodifluoromethane	BRL	10		ug/L	237974	1	02/14/2017 06:20	BN
Ethylbenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Freon-113	BRL	10		ug/L	237974	1	02/14/2017 06:20	BN
Isopropylbenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
m,p-Xylene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Methyl acetate	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Methylcyclohexane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Methylene chloride	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
o-Xylene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	EW-U
Project Name:	Silverstein	Collection Date:	2/7/2017 4:13:00 PM
Lab ID:	1702760-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Tetrachloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Toluene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Trichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Trichlorofluoromethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:20	BN
Vinyl chloride	BRL	2.0		ug/L	237974	1	02/14/2017 06:20	BN
Surr: 4-Bromofluorobenzene	85.4	66.1-129		%REC	237974	1	02/14/2017 06:20	BN
Surr: Dibromofluoromethane	105	83.6-123		%REC	237974	1	02/14/2017 06:20	BN
Surr: Toluene-d8	94.5	81.8-118		%REC	237974	1	02/14/2017 06:20	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EW-S
Project Name: Silverstein	Collection Date: 2/8/2017 2:20:00 PM
Lab ID: 1702760-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,1-Dichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,1-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,2-Dibromoethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,2-Dichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,2-Dichloropropane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
2-Butanone	BRL	50		ug/L	237974	1	02/14/2017 06:49	BN
2-Hexanone	BRL	10		ug/L	237974	1	02/14/2017 06:49	BN
4-Methyl-2-pentanone	BRL	10		ug/L	237974	1	02/14/2017 06:49	BN
Acetone	BRL	50		ug/L	237974	1	02/14/2017 06:49	BN
Benzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Bromodichloromethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Bromoform	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Bromomethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Carbon disulfide	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Carbon tetrachloride	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Chlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Chloroethane	BRL	10		ug/L	237974	1	02/14/2017 06:49	BN
Chloroform	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Chloromethane	BRL	3.0		ug/L	237974	1	02/14/2017 06:49	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Cyclohexane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Dibromochloromethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Dichlorodifluoromethane	BRL	10		ug/L	237974	1	02/14/2017 06:49	BN
Ethylbenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Freon-113	BRL	10		ug/L	237974	1	02/14/2017 06:49	BN
Isopropylbenzene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
m,p-Xylene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Methyl acetate	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Methylcyclohexane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Methylene chloride	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
o-Xylene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	EW-S
Project Name:	Silverstein	Collection Date:	2/8/2017 2:20:00 PM
Lab ID:	1702760-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Tetrachloroethene	86	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Toluene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Trichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Trichlorofluoromethane	BRL	5.0		ug/L	237974	1	02/14/2017 06:49	BN
Vinyl chloride	BRL	2.0		ug/L	237974	1	02/14/2017 06:49	BN
Surr: 4-Bromofluorobenzene	89.6	66.1-129		%REC	237974	1	02/14/2017 06:49	BN
Surr: Dibromofluoromethane	93	83.6-123		%REC	237974	1	02/14/2017 06:49	BN
Surr: Toluene-d8	96.8	81.8-118		%REC	237974	1	02/14/2017 06:49	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-25R
Project Name: Silverstein	Collection Date: 2/8/2017 4:10:00 PM
Lab ID: 1702760-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,1-Dichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,1-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,2-Dibromoethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,2-Dichloroethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,2-Dichloropropane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
2-Butanone	BRL	50		ug/L	237974	1	02/14/2017 02:00	BN
2-Hexanone	BRL	10		ug/L	237974	1	02/14/2017 02:00	BN
4-Methyl-2-pentanone	BRL	10		ug/L	237974	1	02/14/2017 02:00	BN
Acetone	BRL	50		ug/L	237974	1	02/14/2017 02:00	BN
Benzene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Bromodichloromethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Bromoform	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Bromomethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Carbon disulfide	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Carbon tetrachloride	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Chlorobenzene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Chloroethane	BRL	10		ug/L	237974	1	02/14/2017 02:00	BN
Chloroform	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Chloromethane	BRL	3.0		ug/L	237974	1	02/14/2017 02:00	BN
cis-1,2-Dichloroethene	11	5.0		ug/L	237974	1	02/14/2017 02:00	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Cyclohexane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Dibromochloromethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Dichlorodifluoromethane	BRL	10		ug/L	237974	1	02/14/2017 02:00	BN
Ethylbenzene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Freon-113	BRL	10		ug/L	237974	1	02/14/2017 02:00	BN
Isopropylbenzene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
m,p-Xylene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Methyl acetate	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Methylcyclohexane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Methylene chloride	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
o-Xylene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-25R
Project Name:	Silverstein	Collection Date:	2/8/2017 4:10:00 PM
Lab ID:	1702760-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Tetrachloroethene	330	50		ug/L	237974	10	02/14/2017 02:29	BN
Toluene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Trichloroethene	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Trichlorofluoromethane	BRL	5.0		ug/L	237974	1	02/14/2017 02:00	BN
Vinyl chloride	BRL	2.0		ug/L	237974	1	02/14/2017 02:00	BN
Surr: 4-Bromofluorobenzene	85	66.1-129		%REC	237974	1	02/14/2017 02:00	BN
Surr: 4-Bromofluorobenzene	87.7	66.1-129		%REC	237974	10	02/14/2017 02:29	BN
Surr: Dibromofluoromethane	95.1	83.6-123		%REC	237974	1	02/14/2017 02:00	BN
Surr: Dibromofluoromethane	98.5	83.6-123		%REC	237974	10	02/14/2017 02:29	BN
Surr: Toluene-d8	99.3	81.8-118		%REC	237974	1	02/14/2017 02:00	BN
Surr: Toluene-d8	98.6	81.8-118		%REC	237974	10	02/14/2017 02:29	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	SOIL CUTTINGS
Project Name:	Silverstein	Collection Date:	2/8/2017 5:00:00 PM
Lab ID:	1702760-005	Matrix:	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B				(SW5030B)				
1,1-Dichloroethene	BRL	0.10		mg/L	237948	20	02/15/2017 02:46	BN
1,2-Dichloroethane	BRL	0.10		mg/L	237948	20	02/15/2017 02:46	BN
2-Butanone	BRL	0.20		mg/L	237948	20	02/15/2017 02:46	BN
Benzene	BRL	0.10		mg/L	237948	20	02/15/2017 02:46	BN
Carbon tetrachloride	BRL	0.10		mg/L	237948	20	02/15/2017 02:46	BN
Chlorobenzene	BRL	0.10		mg/L	237948	20	02/15/2017 02:46	BN
Chloroform	BRL	0.10		mg/L	237948	20	02/15/2017 02:46	BN
Tetrachloroethene	BRL	0.10		mg/L	237948	20	02/15/2017 02:46	BN
Trichloroethene	BRL	0.10		mg/L	237948	20	02/15/2017 02:46	BN
Vinyl chloride	BRL	0.040		mg/L	237948	20	02/15/2017 02:46	BN
Surr: 4-Bromofluorobenzene	84.7	68.3-122		%REC	237948	20	02/15/2017 02:46	BN
Surr: Dibromofluoromethane	101	70.1-125		%REC	237948	20	02/15/2017 02:46	BN
Surr: Toluene-d8	99.4	81.4-120		%REC	237948	20	02/15/2017 02:46	BN
MERCURY, TCLP SW1311/7470A				(SW7470A)				
Mercury	BRL	0.00400		mg/L	237952	1	02/15/2017 14:30	JR
ICP METALS, TCLP SW1311/6010C				(SW3010A)				
Arsenic	BRL	0.250		mg/L	238025	1	02/14/2017 21:20	JL
Barium	BRL	0.500		mg/L	238025	1	02/14/2017 21:20	JL
Cadmium	BRL	0.0250		mg/L	238025	1	02/14/2017 21:20	JL
Chromium	BRL	0.0500		mg/L	238025	1	02/14/2017 21:20	JL
Lead	BRL	0.0500		mg/L	238025	1	02/14/2017 21:20	JL
Selenium	BRL	0.100		mg/L	238025	1	02/14/2017 21:20	JL
Silver	BRL	0.0250		mg/L	238025	1	02/14/2017 21:20	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	TRIP BLANK
Project Name:	Silverstein	Collection Date:	2/8/2017
Lab ID:	1702760-006	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,1-Dichloroethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,1-Dichloroethene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,2-Dibromoethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,2-Dichloroethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,2-Dichloropropane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
2-Butanone	BRL	50		ug/L	237974	1	02/13/2017 23:06	BN
2-Hexanone	BRL	10		ug/L	237974	1	02/13/2017 23:06	BN
4-Methyl-2-pentanone	BRL	10		ug/L	237974	1	02/13/2017 23:06	BN
Acetone	BRL	50		ug/L	237974	1	02/13/2017 23:06	BN
Benzene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Bromodichloromethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Bromoform	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Bromomethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Carbon disulfide	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Carbon tetrachloride	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Chlorobenzene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Chloroethane	BRL	10		ug/L	237974	1	02/13/2017 23:06	BN
Chloroform	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Chloromethane	BRL	3.0		ug/L	237974	1	02/13/2017 23:06	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Cyclohexane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Dibromochloromethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Dichlorodifluoromethane	BRL	10		ug/L	237974	1	02/13/2017 23:06	BN
Ethylbenzene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Freon-113	BRL	10		ug/L	237974	1	02/13/2017 23:06	BN
Isopropylbenzene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
m,p-Xylene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Methyl acetate	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Methylcyclohexane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Methylene chloride	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
o-Xylene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: TRIP BLANK
Project Name: Silverstein	Collection Date: 2/8/2017
Lab ID: 1702760-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Tetrachloroethene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Toluene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Trichloroethene	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Trichlorofluoromethane	BRL	5.0		ug/L	237974	1	02/13/2017 23:06	BN
Vinyl chloride	BRL	2.0		ug/L	237974	1	02/13/2017 23:06	BN
Surr: 4-Bromofluorobenzene	91.5	66.1-129		%REC	237974	1	02/13/2017 23:06	BN
Surr: Dibromofluoromethane	93.2	83.6-123		%REC	237974	1	02/13/2017 23:06	BN
Surr: Toluene-d8	98.6	81.8-118		%REC	237974	1	02/13/2017 23:06	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: American Environmental & Construction Services IncAES Work Order Number: 17027602. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☒ Other ☐

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 4.6 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials).

MJ 2/9/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials).

TD 2/10/2017

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

I certify that I have completed sections 28-30 (dated initials).

TD 2/10/2017

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

ANALYTICAL QC SUMMARY REPORT**BatchID: 237948**

Sample ID: MB-237948	Client ID:					Units: mg/L	Prep Date: 02/13/2017	Run No: 336294			
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B					BatchID: 237948	Analysis Date: 02/13/2017	Seq No: 7342266			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.9100	0	1.000		91.0	68.3	122				
Surr: Dibromofluoromethane	0.9732	0	1.000		97.3	70.1	125				
Surr: Toluene-d8	0.9998	0	1.000		100.0	81.4	120				

Sample ID: LCS-237948	Client ID:				Units: mg/L	Prep Date: 02/13/2017	Run No: 336294				
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B				BatchID: 237948	Analysis Date: 02/13/2017	Seq No: 7342267				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.9670	0.10	1.000		96.7	58.8	139				
1,2-Dichloroethane	0.9952	0.10	1.000		99.5	64.8	134				
2-Butanone	1.445	0.20	2.000		72.3	57.3	143				
Benzene	1.009	0.10	1.000		101	75.4	127				
Carbon tetrachloride	1.274	0.10	1.000		127	58.5	144				
Chlorobenzene	1.011	0.10	1.000		101	77.9	122				
Chloroform	0.9640	0.10	1.000		96.4	66.5	130				
Tetrachloroethene	1.021	0.10	1.000		102	73	133				
Trichloroethene	0.9788	0.10	1.000		97.9	72.1	132				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

ANALYTICAL QC SUMMARY REPORT**BatchID: 237948**

Sample ID: LCS-237948	Client ID:					Units: mg/L	Prep Date: 02/13/2017	Run No: 336294			
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B					BatchID: 237948	Analysis Date: 02/13/2017	Seq No: 7342267			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	0.8970	0.040	1.000		89.7	56.1	139				
Surr: 4-Bromofluorobenzene	0.9808	0	1.000		98.1	68.3	122				
Surr: Dibromofluoromethane	1.004	0	1.000		100	70.1	125				
Surr: Toluene-d8	1.033	0	1.000		103	81.4	120				

Sample ID: 1702658-001AMS	Client ID:				Units: mg/L	Prep Date: 02/13/2017	Run No: 336294				
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B				BatchID: 237948	Analysis Date: 02/13/2017	Seq No: 7343106				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.6514	0.10	1.000		65.1	61.9	137				
1,2-Dichloroethane	0.8222	0.10	1.000		82.2	60.3	134				
2-Butanone	1.504	0.20	2.000		75.2	51.8	143				
Benzene	0.8016	0.10	1.000		80.2	71.8	130				
Carbon tetrachloride	0.9408	0.10	1.000		94.1	65.8	133				
Chlorobenzene	0.8086	0.10	1.000		80.9	72	125				
Chloroform	0.7382	0.10	1.000		73.8	63.6	130				
Tetrachloroethene	0.7642	0.10	1.000		76.4	70.8	135				
Trichloroethene	0.7952	0.10	1.000		79.5	70.3	133				
Vinyl chloride	0.5864	0.040	1.000		58.6	56.4	139				
Surr: 4-Bromofluorobenzene	0.9764	0	1.000		97.6	68.3	122				
Surr: Dibromofluoromethane	0.9940	0	1.000		99.4	70.1	125				
Surr: Toluene-d8	0.9926	0	1.000		99.3	81.4	120				

Sample ID: 1702658-001ADUP	Client ID:					Units: mg/L	Prep Date: 02/13/2017	Run No: 336294			
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B					BatchID: 237948	Analysis Date: 02/13/2017	Seq No: 7343107			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

ANALYTICAL QC SUMMARY REPORT

BatchID: 237948

Sample ID: 1702658-001ADUP		Client ID:				Units: mg/L		Prep Date: 02/13/2017		Run No: 336294	
SampleType: DUP		TestCode: VOLATILES, TCLP SW1311/8260B				BatchID: 237948		Analysis Date: 02/13/2017		Seq No: 7343107	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	0.10						0	0	30	
2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.9580	0	1.000		95.8	68.3	122	0.9318	0	0	
Surr: Dibromofluoromethane	0.9950	0	1.000		99.5	70.1	125	0.9412	0	0	
Surr: Toluene-d8	0.9538	0	1.000		95.4	81.4	120	0.9338	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

ANALYTICAL QC SUMMARY REPORT**BatchID: 237952**

Sample ID: MB-237952	Client ID:					Units: mg/L	Prep Date: 02/14/2017	Run No: 336413			
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A					BatchID: 237952	Analysis Date: 02/14/2017	Seq No: 7344402			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400

Sample ID: LCS-237952	Client ID:					Units: mg/L	Prep Date: 02/14/2017	Run No: 336413			
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A					BatchID: 237952	Analysis Date: 02/14/2017	Seq No: 7344405			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04644 0.00400 0.0400 116 80 120

Sample ID: 1702636-001CMS	Client ID:					Units: mg/L	Prep Date: 02/14/2017	Run No: 336413			
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A					BatchID: 237952	Analysis Date: 02/14/2017	Seq No: 7344407			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04570 0.00400 0.0400 114 80 120

Sample ID: 1702636-001CMSD	Client ID:				Units: mg/L	Prep Date: 02/14/2017	Run No: 336413				
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A				BatchID: 237952	Analysis Date: 02/14/2017	Seq No: 7344408				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04357 0.00400 0.0400 109 80 120 0.04570 4.78 20

Qualifiers:

> Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

ANALYTICAL QC SUMMARY REPORT

BatchID: 237974

Sample ID: MB-237974	Client ID:					Units: ug/L	Prep Date: 02/13/2017		Run No: 336360		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 237974	Analysis Date: 02/13/2017		Seq No: 7343108		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL QC SUMMARY REPORT

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

BatchID: 237974

Sample ID: MB-237974		Client ID:		Units: ug/L		Prep Date: 02/13/2017		Run No: 336360			
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B		BatchID: 237974		Analysis Date: 02/13/2017		Seq No: 7343108			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	43.83	0	50.00		87.7	66.1	129				
Surr: Dibromofluoromethane	46.70	0	50.00		93.4	83.6	123				
Surr: Toluene-d8	48.66	0	50.00		97.3	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

ANALYTICAL QC SUMMARY REPORT**BatchID: 237974**

Sample ID: LCS-237974	Client ID:					Units: ug/L	Prep Date: 02/13/2017	Run No: 336360			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 237974	Analysis Date: 02/13/2017	Seq No: 7343109			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.78	5.0	50.00		95.6	68	139				
Benzene	48.94	5.0	50.00		97.9	74	125				
Chlorobenzene	48.10	5.0	50.00		96.2	75.7	123				
Toluene	52.12	5.0	50.00		104	75.9	126				
Trichloroethene	46.28	5.0	50.00		92.6	70.6	129				
Surr: 4-Bromofluorobenzene	44.11	0	50.00		88.2	66.1	129				
Surr: Dibromofluoromethane	48.57	0	50.00		97.1	83.6	123				
Surr: Toluene-d8	48.69	0	50.00		97.4	81.8	118				

Sample ID: 1702570-004AMS	Client ID:				Units: ug/L	Prep Date: 02/13/2017	Run No: 336360				
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 237974	Analysis Date: 02/14/2017	Seq No: 7343114				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2670	250	2500		107	64.3	149				
Benzene	2736	250	2500	157.0	103	71.6	132				
Chlorobenzene	2372	250	2500		94.9	73.1	126				
Toluene	2948	250	2500	163.5	111	72.5	135				
Trichloroethene	2481	250	2500		99.2	70.2	132				
Surr: 4-Bromofluorobenzene	2378	0	2500		95.1	66.1	129				
Surr: Dibromofluoromethane	2423	0	2500		96.9	83.6	123				
Surr: Toluene-d8	2552	0	2500		102	81.8	118				

Sample ID: 1702570-004AMSD	Client ID:				Units: ug/L	Prep Date: 02/13/2017	Run No: 336360				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 237974	Analysis Date: 02/14/2017	Seq No: 7343115				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2396	250	2500		95.8	64.3	149	2670	10.8	30.8	
Benzene	2605	250	2500	157.0	97.9	71.6	132	2736	4.92	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

ANALYTICAL QC SUMMARY REPORT

BatchID: 237974

Sample ID: 1702570-004AMSD	Client ID:					Units: ug/L	Prep Date: 02/13/2017	Run No: 336360			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 237974	Analysis Date: 02/14/2017	Seq No: 7343115			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2319	250	2500		92.8	73.1	126	2372	2.24	26.6	
Toluene	2783	250	2500	163.5	105	72.5	135	2948	5.76	23.2	
Trichloroethene	2392	250	2500		95.7	70.2	132	2481	3.67	27.7	
Surr: 4-Bromofluorobenzene	2363	0	2500		94.5	66.1	129	2378	0	0	
Surr: Dibromofluoromethane	2421	0	2500		96.8	83.6	123	2423	0	0	
Surr: Toluene-d8	2490	0	2500		99.6	81.8	118	2552	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

ANALYTICAL QC SUMMARY REPORT**BatchID: 238025**

Sample ID: MB-238025	Client ID:					Units: mg/L	Prep Date: 02/14/2017	Run No: 336426			
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C					BatchID: 238025	Analysis Date: 02/14/2017	Seq No: 7344574			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 0.250
 Barium BRL 0.500
 Cadmium BRL 0.0250
 Chromium BRL 0.0500
 Lead BRL 0.0500
 Selenium BRL 0.100
 Silver BRL 0.0250

Sample ID: LCS-238025	Client ID:					Units: mg/L	Prep Date: 02/14/2017	Run No: 336426			
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C					BatchID: 238025	Analysis Date: 02/14/2017	Seq No: 7344575			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 5.020 0.250 5.000 100 80 120
 Barium 4.781 0.500 5.000 0.02410 95.1 80 120
 Cadmium 5.023 0.0250 5.000 100 80 120
 Chromium 4.919 0.0500 5.000 98.4 80 120
 Lead 4.785 0.0500 5.000 95.7 80 120
 Selenium 5.152 0.100 5.000 103 80 120
 Silver 0.5124 0.0250 0.5000 102 80 120

Sample ID: 1702926-001AMS	Client ID:					Units: mg/L	Prep Date: 02/14/2017	Run No: 336426			
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C					BatchID: 238025	Analysis Date: 02/14/2017	Seq No: 7344577			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 4.892 0.250 5.000 97.8 50 150
 Barium 5.239 0.500 5.000 0.7532 89.7 50 150
 Cadmium 4.826 0.0250 5.000 96.5 50 150
 Chromium 4.743 0.0500 5.000 0.05385 93.8 50 150

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702760

ANALYTICAL QC SUMMARY REPORT

BatchID: 238025

Sample ID: 1702926-001AMS	Client ID:					Units: mg/L	Prep Date: 02/14/2017	Run No: 336426			
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C					BatchID: 238025	Analysis Date: 02/14/2017	Seq No: 7344577			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	4.562	0.0500	5.000		91.2	50	150				
Selenium	4.915	0.100	5.000		98.3	50	150				
Silver	0.4839	0.0250	0.5000		96.8	50	150				

Sample ID: 1702926-001AMSD	Client ID:					Units: mg/L	Prep Date: 02/14/2017	Run No: 336426			
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C					BatchID: 238025	Analysis Date: 02/14/2017	Seq No: 7344580			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4.911	0.250	5.000		98.2	50	150	4.892	0.377	30	
Barium	5.245	0.500	5.000	0.7532	89.8	50	150	5.239	0.116	30	
Cadmium	4.842	0.0250	5.000		96.8	50	150	4.826	0.329	30	
Chromium	4.795	0.0500	5.000	0.05385	94.8	50	150	4.743	1.09	30	
Lead	4.580	0.0500	5.000		91.6	50	150	4.562	0.394	30	
Selenium	4.961	0.100	5.000		99.2	50	150	4.915	0.937	30	
Silver	0.4855	0.0250	0.5000		97.1	50	150	0.4839	0.330	30	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 11, 2017

Rodger Daniel
American Environmental & Construction Services Inc
1170 Tidwell Rd
Alpharetta GA 30004

RE: Silverstein

Dear Rodger Daniel:

Order No: 1702G82

Analytical Environmental Services, Inc. received 3 samples on 2/18/2017 10:40:00 AM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager

Revision 7/11/2017

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 2/17/17 Page 1 of 1

COMPANY: AECS		ADDRESS: 1170 Tidwell Rd. Alpharetta, GA 30004		ANALYSIS REQUESTED <div>VOC SW8260B</div>								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers			
PHONE: 770-754-6440		FAX:															
SAMPLED BY: Jeanne Sears		SIGNATURE: 															
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS		
		DATE	TIME														
1	MW-43	2/17/17	14:10	X		GW	X									2	
2	MW-44	2/17/17	16:50	X		GW	X									2	
3	Trip blank						X									2	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION								RECEIPT	
1:		15:00 2/17/17		1:		2/17/17 10:40 AM		PROJECT NAME: Silverstein								Total # of Containers	6
2:				2:				PROJECT #: 02-14								Turnaround Time Request <input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) Other _____	
3:				3:				SITE ADDRESS: 2716 Washington Rd., Augusta, GA									
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD OUT 2/17/17 VIA: FedEx IN / / VIA: CLIENT <u>FedEx</u> UPS MAIL COURIER GREYHOUND OTHER _____		SEND REPORT TO: R Daniel, B Dixon, J Sears, C Welly, K Cooper		INVOICE TO: Brink Miller (IF DIFFERENT FROM ABOVE) QUOTE #: _____ PO#: _____								STATE PROGRAM (if any): _____	
																E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	
SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.																	
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.																	

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1702G82-001

Client Sample ID: MW-43
Collection Date: 2/17/2017 2:10:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
2-Butanone	BRL	50		ug/L	238410	1	02/22/2017 01:39	BN
2-Hexanone	BRL	10		ug/L	238410	1	02/22/2017 01:39	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238410	1	02/22/2017 01:39	BN
Acetone	BRL	50		ug/L	238410	1	02/22/2017 01:39	BN
Benzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Bromodichloromethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Bromoform	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Bromomethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Carbon disulfide	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Carbon tetrachloride	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Chlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Chloroethane	BRL	10		ug/L	238410	1	02/22/2017 01:39	BN
Chloroform	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Chloromethane	BRL	3.0		ug/L	238410	1	02/22/2017 01:39	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Cyclohexane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Dibromochloromethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Dichlorodifluoromethane	BRL	10		ug/L	238410	1	02/22/2017 01:39	BN
Ethylbenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Freon-113	BRL	10		ug/L	238410	1	02/22/2017 01:39	BN
Isopropylbenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
m,p-Xylene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Methyl acetate	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Methylcyclohexane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Methylene chloride	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
o-Xylene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-43
Project Name:	Silverstein	Collection Date:	2/17/2017 2:10:00 PM
Lab ID:	1702G82-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Tetrachloroethene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Toluene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Trichloroethene	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:39	BN
Vinyl chloride	BRL	2.0		ug/L	238410	1	02/22/2017 01:39	BN
Surr: 4-Bromofluorobenzene	87.5	66.1-129		%REC	238410	1	02/22/2017 01:39	BN
Surr: Dibromofluoromethane	114	83.6-123		%REC	238410	1	02/22/2017 01:39	BN
Surr: Toluene-d8	99.9	81.8-118		%REC	238410	1	02/22/2017 01:39	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-44
Project Name: Silverstein	Collection Date: 2/17/2017 4:50:00 PM
Lab ID: 1702G82-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
2-Butanone	BRL	50		ug/L	238410	1	02/22/2017 01:10	BN
2-Hexanone	BRL	10		ug/L	238410	1	02/22/2017 01:10	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238410	1	02/22/2017 01:10	BN
Acetone	BRL	50		ug/L	238410	1	02/22/2017 01:10	BN
Benzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Bromodichloromethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Bromoform	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Bromomethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Carbon disulfide	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Carbon tetrachloride	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Chlorobenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Chloroethane	BRL	10		ug/L	238410	1	02/22/2017 01:10	BN
Chloroform	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Chloromethane	BRL	3.0		ug/L	238410	1	02/22/2017 01:10	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Cyclohexane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Dibromochloromethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Dichlorodifluoromethane	BRL	10		ug/L	238410	1	02/22/2017 01:10	BN
Ethylbenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Freon-113	BRL	10		ug/L	238410	1	02/22/2017 01:10	BN
Isopropylbenzene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
m,p-Xylene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Methyl acetate	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Methylcyclohexane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Methylene chloride	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
o-Xylene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-44
Project Name:	Silverstein	Collection Date:	2/17/2017 4:50:00 PM
Lab ID:	1702G82-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Tetrachloroethene	7.9	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Toluene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Trichloroethene	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238410	1	02/22/2017 01:10	BN
Vinyl chloride	BRL	2.0		ug/L	238410	1	02/22/2017 01:10	BN
Surr: 4-Bromofluorobenzene	91.6	66.1-129		%REC	238410	1	02/22/2017 01:10	BN
Surr: Dibromofluoromethane	107	83.6-123		%REC	238410	1	02/22/2017 01:10	BN
Surr: Toluene-d8	101	81.8-118		%REC	238410	1	02/22/2017 01:10	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	TRIP BLANK
Project Name:	Silverstein	Collection Date:	2/18/2017
Lab ID:	1702G82-003	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
2-Butanone	BRL	50		ug/L	238410	1	02/21/2017 22:45	BN
2-Hexanone	BRL	10		ug/L	238410	1	02/21/2017 22:45	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238410	1	02/21/2017 22:45	BN
Acetone	BRL	50		ug/L	238410	1	02/21/2017 22:45	BN
Benzene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Bromodichloromethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Bromoform	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Bromomethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Carbon disulfide	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Carbon tetrachloride	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Chlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Chloroethane	BRL	10		ug/L	238410	1	02/21/2017 22:45	BN
Chloroform	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Chloromethane	BRL	3.0		ug/L	238410	1	02/21/2017 22:45	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Cyclohexane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Dibromochloromethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Dichlorodifluoromethane	BRL	10		ug/L	238410	1	02/21/2017 22:45	BN
Ethylbenzene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Freon-113	BRL	10		ug/L	238410	1	02/21/2017 22:45	BN
Isopropylbenzene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
m,p-Xylene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Methyl acetate	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Methylcyclohexane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Methylene chloride	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
o-Xylene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: TRIP BLANK
Project Name: Silverstein	Collection Date: 2/18/2017
Lab ID: 1702G82-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Tetrachloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Toluene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Trichloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238410	1	02/21/2017 22:45	BN
Vinyl chloride	BRL	2.0		ug/L	238410	1	02/21/2017 22:45	BN
Surr: 4-Bromofluorobenzene	82.8	66.1-129		%REC	238410	1	02/21/2017 22:45	BN
Surr: Dibromofluoromethane	108	83.6-123		%REC	238410	1	02/21/2017 22:45	BN
Surr: Toluene-d8	98.8	81.8-118		%REC	238410	1	02/21/2017 22:45	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702G82

ANALYTICAL QC SUMMARY REPORT**BatchID: 238410**

Sample ID: MB-238410	Client ID:					Units: ug/L	Prep Date: 02/21/2017	Run No: 336911			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7357422			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702G82

ANALYTICAL QC SUMMARY REPORT**BatchID: 238410**

Sample ID: MB-238410	Client ID:					Units: ug/L	Prep Date: 02/21/2017		Run No: 336911		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B				BatchID: 238410	Analysis Date: 02/21/2017		Seq No: 7357422		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	43.60	0	50.00		87.2	66.1	129				
Surr: Dibromofluoromethane	49.81	0	50.00		99.6	83.6	123				
Surr: Toluene-d8	47.92	0	50.00		95.8	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702G82

ANALYTICAL QC SUMMARY REPORT**BatchID: 238410**

Sample ID: LCS-238410	Client ID:					Units: ug/L	Prep Date: 02/21/2017	Run No: 336911			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7357421			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.59	5.0	50.00		105	68	139				
Benzene	53.20	5.0	50.00		106	74	125				
Chlorobenzene	49.94	5.0	50.00		99.9	75.7	123				
Toluene	53.20	5.0	50.00		106	75.9	126				
Trichloroethene	51.77	5.0	50.00		104	70.6	129				
Surr: 4-Bromofluorobenzene	45.53	0	50.00		91.1	66.1	129				
Surr: Dibromofluoromethane	54.92	0	50.00		110	83.6	123				
Surr: Toluene-d8	45.55	0	50.00		91.1	81.8	118				

Sample ID: 1702F67-008AMS	Client ID:					Units: ug/L	Prep Date: 02/21/2017	Run No: 336963			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7359916			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	522.1	50	500.0		104	64.3	149				
Benzene	487.5	50	500.0		97.5	71.6	132				
Chlorobenzene	479.2	50	500.0		95.8	73.1	126				
Toluene	508.0	50	500.0		102	72.5	135				
Trichloroethene	466.1	50	500.0		93.2	70.2	132				
Surr: 4-Bromofluorobenzene	430.5	0	500.0		86.1	66.1	129				
Surr: Dibromofluoromethane	504.6	0	500.0		101	83.6	123				
Surr: Toluene-d8	459.1	0	500.0		91.8	81.8	118				

Sample ID: 1702F67-008AMSD	Client ID:				Units: ug/L	Prep Date: 02/21/2017	Run No: 336963				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7359917				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	524.7	50	500.0		105	64.3	149	522.1	0.497	30.8	
Benzene	485.3	50	500.0		97.1	71.6	132	487.5	0.452	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702G82

ANALYTICAL QC SUMMARY REPORT

BatchID: 238410

Sample ID: 1702F67-008AMSD	Client ID:					Units: ug/L	Prep Date: 02/21/2017	Run No: 336963			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7359917			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	464.4	50	500.0		92.9	73.1	126	479.2	3.14	26.6	
Toluene	500.3	50	500.0		100	72.5	135	508.0	1.53	23.2	
Trichloroethene	465.2	50	500.0		93.0	70.2	132	466.1	0.193	27.7	
Surr: 4-Bromofluorobenzene	439.7	0	500.0		87.9	66.1	129	430.5	0	0	
Surr: Dibromofluoromethane	513.1	0	500.0		103	83.6	123	504.6	0	0	
Surr: Toluene-d8	476.6	0	500.0		95.3	81.8	118	459.1	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 11, 2017

Rodger Daniel
American Environmental & Construction Services Inc
1170 Tidwell Rd
Alpharetta GA 30004

RE: Silverstein

Dear Rodger Daniel:

Order No: 1702M93

Analytical Environmental Services, Inc. received 11 samples on 2/25/2017 9:10:00 AM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager

Revision 7/11/2017



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 17024/93

Date: 2/24/17 Page 1 of 1

COMPANY: AECS		ADDRESS: 1170 Tidwell Rd. Alpharetta, GA 30004		ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: 770-754-6440		FAX:		VOC	RCRA Metals	Copper	Chromium VI	Nitrate	Chloride	Sulfate	Sulfide	Iron II	Methane			
SAMPLED BY: Jeanne Sears		SIGNATURE: <i>[Signature]</i>		PRESERVATION (See codes)										REMARKS		
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)										
1	MW-31	2/22/17	9:50	X		GW	X								2	
2	MW-42R	2/22/17	13:45	X		GW	X								2	
3	MW-35	2/22/17	15:00	X		GW	X								2	
4	MW-14-R2	2/22/17	16:40	X		GW	X								2	
5	EW-K-R	2/23/17	9:40	X		GW	X								2	
6	W-3-R	2/23/17	12:25	X		GW	X								2	
7	MW-18-R	2/23/17	15:25	X		GW	X								2	
8	MW-22-R2	2/23/17	17:26	X		GW	X								2	
9	EW-E-R2	2/24/17	9:40	X		GW	X								2	
10	MW-13-R2	2/24/17	11:55	X		GW	X								2	
11	Trip Blank						X								2	
12																
13																
14																
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION							RECEIPT	
1: <i>[Signature]</i>		18:00 2/24/17		1: <i>[Signature]</i>		2/25/17 9:10AM		PROJECT NAME: Silverstein							Total # of Containers 22	
2:				2:				PROJECT #: 02-14							Turnaround Time Request <input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____	
3:				3:				SITE ADDRESS: 2716 Washington Rd., Augusta, GA								
								SEND REPORT TO: R Daniel, B Dixon, J Sears, S Pfeifer, V Solomon, T Maston								
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO: <i>C. Watty, K. Cooper</i>							STATE PROGRAM (if any): _____	
				OUT 2/24/17 VIA: FedEx				Brink Miller							E-mail? <input checked="" type="checkbox"/> N; Y Fax? Y/N N	
				IN <input type="checkbox"/> CLIENT <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER				QUOTE #: _____ PO#: _____							DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	
				<input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER _____												

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1702M93-001

Client Sample ID: MW-31
Collection Date: 2/22/2017 9:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 02:33	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 02:33	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 02:33	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 02:33	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 02:33	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 02:33	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 02:33	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 02:33	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-31
Project Name: Silverstein	Collection Date: 2/22/2017 9:50:00 AM
Lab ID: 1702M93-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Tetrachloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 02:33	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 02:33	BN
Surr: 4-Bromofluorobenzene	87.9	66.1-129		%REC	238824	1	03/01/2017 02:33	BN
Surr: Dibromofluoromethane	93.9	83.6-123		%REC	238824	1	03/01/2017 02:33	BN
Surr: Toluene-d8	92.6	81.8-118		%REC	238824	1	03/01/2017 02:33	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-42R
Project Name: Silverstein	Collection Date: 2/22/2017 1:45:00 PM
Lab ID: 1702M93-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 03:02	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 03:02	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 03:02	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 03:02	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 03:02	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 03:02	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 03:02	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 03:02	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-42R
Project Name:	Silverstein	Collection Date:	2/22/2017 1:45:00 PM
Lab ID:	1702M93-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Tetrachloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:02	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 03:02	BN
Surr: 4-Bromofluorobenzene	80	66.1-129		%REC	238824	1	03/01/2017 03:02	BN
Surr: Dibromofluoromethane	95.1	83.6-123		%REC	238824	1	03/01/2017 03:02	BN
Surr: Toluene-d8	91.7	81.8-118		%REC	238824	1	03/01/2017 03:02	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-35
Project Name: Silverstein	Collection Date: 2/22/2017 3:00:00 PM
Lab ID: 1702M93-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 03:31	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 03:31	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 03:31	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 03:31	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 03:31	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 03:31	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 03:31	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 03:31	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-35
Project Name:	Silverstein	Collection Date:	2/22/2017 3:00:00 PM
Lab ID:	1702M93-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Tetrachloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 03:31	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 03:31	BN
Surr: 4-Bromofluorobenzene	80.3	66.1-129		%REC	238824	1	03/01/2017 03:31	BN
Surr: Dibromofluoromethane	105	83.6-123		%REC	238824	1	03/01/2017 03:31	BN
Surr: Toluene-d8	97.6	81.8-118		%REC	238824	1	03/01/2017 03:31	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-14-R2
Project Name:	Silverstein	Collection Date:	2/22/2017 4:40:00 PM
Lab ID:	1702M93-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 04:00	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 04:00	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 04:00	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 04:00	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 04:00	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 04:00	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 04:00	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 04:00	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-14-R2
Project Name: Silverstein	Collection Date: 2/22/2017 4:40:00 PM
Lab ID: 1702M93-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Tetrachloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:00	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 04:00	BN
Surr: 4-Bromofluorobenzene	83.3	66.1-129		%REC	238824	1	03/01/2017 04:00	BN
Surr: Dibromofluoromethane	97.5	83.6-123		%REC	238824	1	03/01/2017 04:00	BN
Surr: Toluene-d8	89.9	81.8-118		%REC	238824	1	03/01/2017 04:00	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EW-K-R
Project Name: Silverstein	Collection Date: 2/23/2017 9:40:00 AM
Lab ID: 1702M93-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 04:29	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 04:29	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 04:29	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 04:29	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 04:29	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 04:29	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 04:29	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 04:29	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EW-K-R
Project Name: Silverstein	Collection Date: 2/23/2017 9:40:00 AM
Lab ID: 1702M93-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Tetrachloroethene	16	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:29	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 04:29	BN
Surr: 4-Bromofluorobenzene	83.1	66.1-129		%REC	238824	1	03/01/2017 04:29	BN
Surr: Dibromofluoromethane	97.2	83.6-123		%REC	238824	1	03/01/2017 04:29	BN
Surr: Toluene-d8	95.1	81.8-118		%REC	238824	1	03/01/2017 04:29	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	W-3-R
Project Name:	Silverstein	Collection Date:	2/23/2017 12:25:00 PM
Lab ID:	1702M93-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 04:58	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 04:58	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 04:58	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 04:58	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 04:58	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 04:58	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 04:58	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 04:58	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	W-3-R
Project Name:	Silverstein	Collection Date:	2/23/2017 12:25:00 PM
Lab ID:	1702M93-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Tetrachloroethene	13	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 04:58	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 04:58	BN
Surr: 4-Bromofluorobenzene	78.6	66.1-129		%REC	238824	1	03/01/2017 04:58	BN
Surr: Dibromofluoromethane	99	83.6-123		%REC	238824	1	03/01/2017 04:58	BN
Surr: Toluene-d8	93.3	81.8-118		%REC	238824	1	03/01/2017 04:58	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-18-R
Project Name:	Silverstein	Collection Date:	2/23/2017 3:25:00 PM
Lab ID:	1702M93-007	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 05:27	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 05:27	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 05:27	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 05:27	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 05:27	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 05:27	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 05:27	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 05:27	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-18-R
Project Name: Silverstein	Collection Date: 2/23/2017 3:25:00 PM
Lab ID: 1702M93-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Tetrachloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:27	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 05:27	BN
Surr: 4-Bromofluorobenzene	80.7	66.1-129		%REC	238824	1	03/01/2017 05:27	BN
Surr: Dibromofluoromethane	98.1	83.6-123		%REC	238824	1	03/01/2017 05:27	BN
Surr: Toluene-d8	93.5	81.8-118		%REC	238824	1	03/01/2017 05:27	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-22-R2
Project Name: Silverstein	Collection Date: 2/23/2017 5:20:00 PM
Lab ID: 1702M93-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 05:55	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 05:55	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 05:55	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 05:55	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 05:55	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 05:55	BN
cis-1,2-Dichloroethene	6.5	5.0		ug/L	238824	1	03/01/2017 05:55	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 05:55	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 05:55	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-22-R2
Project Name: Silverstein	Collection Date: 2/23/2017 5:20:00 PM
Lab ID: 1702M93-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Tetrachloroethene	380	50		ug/L	238824	10	03/01/2017 11:31	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 05:55	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 05:55	BN
Surr: 4-Bromofluorobenzene	75.8	66.1-129		%REC	238824	10	03/01/2017 11:31	BN
Surr: 4-Bromofluorobenzene	77.8	66.1-129		%REC	238824	1	03/01/2017 05:55	BN
Surr: Dibromofluoromethane	95.8	83.6-123		%REC	238824	1	03/01/2017 05:55	BN
Surr: Dibromofluoromethane	98.7	83.6-123		%REC	238824	10	03/01/2017 11:31	BN
Surr: Toluene-d8	91.5	81.8-118		%REC	238824	10	03/01/2017 11:31	BN
Surr: Toluene-d8	92.4	81.8-118		%REC	238824	1	03/01/2017 05:55	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EW-E-R2
Project Name: Silverstein	Collection Date: 2/24/2017 9:40:00 AM
Lab ID: 1702M93-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 12:00	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 12:00	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 12:00	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 12:00	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 12:00	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 12:00	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 12:00	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 12:00	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	EW-E-R2
Project Name:	Silverstein	Collection Date:	2/24/2017 9:40:00 AM
Lab ID:	1702M93-009	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Tetrachloroethene	38	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:00	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 12:00	BN
Surr: 4-Bromofluorobenzene	81.9	66.1-129		%REC	238824	1	03/01/2017 12:00	BN
Surr: Dibromofluoromethane	101	83.6-123		%REC	238824	1	03/01/2017 12:00	BN
Surr: Toluene-d8	92.7	81.8-118		%REC	238824	1	03/01/2017 12:00	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-13-R2
Project Name: Silverstein	Collection Date: 2/24/2017 11:55:00 AM
Lab ID: 1702M93-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 12:29	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 12:29	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 12:29	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 12:29	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 12:29	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 12:29	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 12:29	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 12:29	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-13-R2
Project Name: Silverstein	Collection Date: 2/24/2017 11:55:00 AM
Lab ID: 1702M93-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Tetrachloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 12:29	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 12:29	BN
Surr: 4-Bromofluorobenzene	78.6	66.1-129		%REC	238824	1	03/01/2017 12:29	BN
Surr: Dibromofluoromethane	98.2	83.6-123		%REC	238824	1	03/01/2017 12:29	BN
Surr: Toluene-d8	92.8	81.8-118		%REC	238824	1	03/01/2017 12:29	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 11-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	TRIP BLANK
Project Name:	Silverstein	Collection Date:	2/25/2017
Lab ID:	1702M93-011	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
2-Butanone	BRL	50		ug/L	238824	1	03/01/2017 11:02	BN
2-Hexanone	BRL	10		ug/L	238824	1	03/01/2017 11:02	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238824	1	03/01/2017 11:02	BN
Acetone	BRL	50		ug/L	238824	1	03/01/2017 11:02	BN
Benzene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Bromodichloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Bromoform	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Bromomethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Carbon disulfide	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Carbon tetrachloride	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Chlorobenzene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Chloroethane	BRL	10		ug/L	238824	1	03/01/2017 11:02	BN
Chloroform	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Chloromethane	BRL	3.0		ug/L	238824	1	03/01/2017 11:02	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Cyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Dibromochloromethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Dichlorodifluoromethane	BRL	10		ug/L	238824	1	03/01/2017 11:02	BN
Ethylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Freon-113	BRL	10		ug/L	238824	1	03/01/2017 11:02	BN
Isopropylbenzene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
m,p-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Methyl acetate	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Methylcyclohexane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Methylene chloride	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
o-Xylene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: TRIP BLANK
Project Name: Silverstein	Collection Date: 2/25/2017
Lab ID: 1702M93-011	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Tetrachloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Toluene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Trichloroethene	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238824	1	03/01/2017 11:02	BN
Vinyl chloride	BRL	2.0		ug/L	238824	1	03/01/2017 11:02	BN
Surr: 4-Bromofluorobenzene	83.3	66.1-129		%REC	238824	1	03/01/2017 11:02	BN
Surr: Dibromofluoromethane	96.5	83.6-123		%REC	238824	1	03/01/2017 11:02	BN
Surr: Toluene-d8	88.6	81.8-118		%REC	238824	1	03/01/2017 11:02	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702M93

ANALYTICAL QC SUMMARY REPORT**BatchID: 238824**

Sample ID: MB-238824	Client ID:				Units: ug/L	Prep Date: 02/28/2017	Run No: 337476				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 238824	Analysis Date: 02/28/2017	Seq No: 7372821				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702M93

ANALYTICAL QC SUMMARY REPORT

BatchID: 238824

Sample ID: MB-238824	Client ID:					Units: ug/L	Prep Date: 02/28/2017		Run No: 337476		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B				BatchID: 238824	Analysis Date: 02/28/2017		Seq No: 7372821		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	42.75	0	50.00		85.5	66.1	129				
Surr: Dibromofluoromethane	49.42	0	50.00		98.8	83.6	123				
Surr: Toluene-d8	45.52	0	50.00		91.0	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702M93

ANALYTICAL QC SUMMARY REPORT**BatchID: 238824**

Sample ID: LCS-238824	Client ID:					Units: ug/L	Prep Date: 02/28/2017	Run No: 337476			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 238824	Analysis Date: 02/28/2017	Seq No: 7372822			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	40.89	5.0	50.00		81.8	68	139				
Benzene	48.69	5.0	50.00		97.4	74	125				
Chlorobenzene	50.49	5.0	50.00		101	75.7	123				
Toluene	47.82	5.0	50.00		95.6	75.9	126				
Trichloroethene	49.71	5.0	50.00		99.4	70.6	129				
Surr: 4-Bromofluorobenzene	44.59	0	50.00		89.2	66.1	129				
Surr: Dibromofluoromethane	45.57	0	50.00		91.1	83.6	123				
Surr: Toluene-d8	44.88	0	50.00		89.8	81.8	118				

Sample ID: 1702M93-003AMS	Client ID: MW-35	Units: ug/L			Prep Date: 02/28/2017	Run No: 337476					
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238824			Analysis Date: 03/01/2017	Seq No: 7372845					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.95	5.0	50.00		108	64.3	149				
Benzene	51.75	5.0	50.00		104	71.6	132				
Chlorobenzene	51.16	5.0	50.00		102	73.1	126				
Toluene	52.29	5.0	50.00		105	72.5	135				
Trichloroethene	47.71	5.0	50.00		95.4	70.2	132				
Surr: 4-Bromofluorobenzene	39.65	0	50.00		79.3	66.1	129				
Surr: Dibromofluoromethane	48.91	0	50.00		97.8	83.6	123				
Surr: Toluene-d8	46.06	0	50.00		92.1	81.8	118				

Sample ID: 1702M93-003AMSD	Client ID: MW-35	Units: ug/L			Prep Date: 02/28/2017	Run No: 337476					
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238824			Analysis Date: 03/01/2017	Seq No: 7372846					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.08	5.0	50.00		106	64.3	149	53.95	1.63	30.8	
Benzene	50.57	5.0	50.00		101	71.6	132	51.75	2.31	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1702M93

ANALYTICAL QC SUMMARY REPORT

BatchID: 238824

Sample ID: 1702M93-003AMSD	Client ID: MW-35	Units: ug/L	Prep Date: 02/28/2017	Run No: 337476							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238824	Analysis Date: 03/01/2017	Seq No: 7372846							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	49.20	5.0	50.00		98.4	73.1	126	51.16	3.91	26.6	
Toluene	51.96	5.0	50.00		104	72.5	135	52.29	0.633	23.2	
Trichloroethene	47.74	5.0	50.00		95.5	70.2	132	47.71	0.063	27.7	
Surr: 4-Bromofluorobenzene	41.18	0	50.00		82.4	66.1	129	39.65	0	0	
Surr: Dibromofluoromethane	47.47	0	50.00		94.9	83.6	123	48.91	0	0	
Surr: Toluene-d8	47.25	0	50.00		94.5	81.8	118	46.06	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

APPENDIX G.3

JULY 2017 SEMI-ANNUAL SAMPLING EVENT LABORATORY REPORTS

JULY 2017
SEMI-ANNUAL SAMPLING EVENT
LABORATORY REPORTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 27, 2017

Rodger Daniel
American Environmental & Construction Services Inc

1170 Tidwell Rd
Alpharetta GA 30004

RE: Silverstein

Dear Rodger Daniel:

Order No: 1707H06

Analytical Environmental Services, Inc. received 9 samples on 7/20/2017 10:20:00 AM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager

CHAIN OF CUSTODY

Work Order: 1107406

Date: 7/19/17 Page 1 of 1

[illegible]

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

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Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Conv - Original Yellow Conv - Client

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1707H06-001

Client Sample ID: MW-42R
Collection Date: 7/17/2017 6:38:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
2-Butanone	BRL	50		ug/L	246034	1	07/25/2017 20:16	MD
2-Hexanone	BRL	10		ug/L	246034	1	07/25/2017 20:16	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246034	1	07/25/2017 20:16	MD
Acetone	BRL	50		ug/L	246034	1	07/25/2017 20:16	MD
Benzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Bromodichloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Bromoform	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Bromomethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Carbon disulfide	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Carbon tetrachloride	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Chlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Chloroethane	BRL	10		ug/L	246034	1	07/25/2017 20:16	MD
Chloroform	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Chloromethane	BRL	3.0		ug/L	246034	1	07/25/2017 20:16	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Cyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Dibromochloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Dichlorodifluoromethane	BRL	10		ug/L	246034	1	07/25/2017 20:16	MD
Ethylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Freon-113	BRL	10		ug/L	246034	1	07/25/2017 20:16	MD
Isopropylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
m,p-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Methyl acetate	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Methylcyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Methylene chloride	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
o-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-42R
Project Name: Silverstein	Collection Date: 7/17/2017 6:38:00 PM
Lab ID: 1707H06-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Tetrachloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Toluene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Trichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:16	MD
Vinyl chloride	BRL	2.0		ug/L	246034	1	07/25/2017 20:16	MD
Surr: 4-Bromofluorobenzene	78.9	66.1-129		%REC	246034	1	07/25/2017 20:16	MD
Surr: Dibromofluoromethane	111	83.6-123		%REC	246034	1	07/25/2017 20:16	MD
Surr: Toluene-d8	104	81.8-118		%REC	246034	1	07/25/2017 20:16	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-14R2
Project Name:	Silverstein	Collection Date:	7/18/2017 10:55:00 AM
Lab ID:	1707H06-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
2-Butanone	BRL	50		ug/L	246034	1	07/25/2017 20:43	MD
2-Hexanone	BRL	10		ug/L	246034	1	07/25/2017 20:43	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246034	1	07/25/2017 20:43	MD
Acetone	BRL	50		ug/L	246034	1	07/25/2017 20:43	MD
Benzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Bromodichloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Bromoform	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Bromomethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Carbon disulfide	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Carbon tetrachloride	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Chlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Chloroethane	BRL	10		ug/L	246034	1	07/25/2017 20:43	MD
Chloroform	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Chloromethane	BRL	3.0		ug/L	246034	1	07/25/2017 20:43	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Cyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Dibromochloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Dichlorodifluoromethane	BRL	10		ug/L	246034	1	07/25/2017 20:43	MD
Ethylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Freon-113	BRL	10		ug/L	246034	1	07/25/2017 20:43	MD
Isopropylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
m,p-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Methyl acetate	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Methylcyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Methylene chloride	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
o-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-14R2
Project Name:	Silverstein	Collection Date:	7/18/2017 10:55:00 AM
Lab ID:	1707H06-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Tetrachloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Toluene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Trichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246034	1	07/25/2017 20:43	MD
Vinyl chloride	BRL	2.0		ug/L	246034	1	07/25/2017 20:43	MD
Surr: 4-Bromofluorobenzene	72.7	66.1-129		%REC	246034	1	07/25/2017 20:43	MD
Surr: Dibromofluoromethane	112	83.6-123		%REC	246034	1	07/25/2017 20:43	MD
Surr: Toluene-d8	102	81.8-118		%REC	246034	1	07/25/2017 20:43	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EW-U
Project Name: Silverstein	Collection Date: 7/18/2017 1:08:00 PM
Lab ID: 1707H06-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
2-Butanone	BRL	50		ug/L	246034	1	07/25/2017 21:11	MD
2-Hexanone	BRL	10		ug/L	246034	1	07/25/2017 21:11	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246034	1	07/25/2017 21:11	MD
Acetone	BRL	50		ug/L	246034	1	07/25/2017 21:11	MD
Benzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Bromodichloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Bromoform	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Bromomethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Carbon disulfide	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Carbon tetrachloride	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Chlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Chloroethane	BRL	10		ug/L	246034	1	07/25/2017 21:11	MD
Chloroform	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Chloromethane	BRL	3.0		ug/L	246034	1	07/25/2017 21:11	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Cyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Dibromochloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Dichlorodifluoromethane	BRL	10		ug/L	246034	1	07/25/2017 21:11	MD
Ethylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Freon-113	BRL	10		ug/L	246034	1	07/25/2017 21:11	MD
Isopropylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
m,p-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Methyl acetate	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Methylcyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Methylene chloride	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
o-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	EW-U
Project Name:	Silverstein	Collection Date:	7/18/2017 1:08:00 PM
Lab ID:	1707H06-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Tetrachloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Toluene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Trichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:11	MD
Vinyl chloride	BRL	2.0		ug/L	246034	1	07/25/2017 21:11	MD
Surr: 4-Bromofluorobenzene	76.4	66.1-129		%REC	246034	1	07/25/2017 21:11	MD
Surr: Dibromofluoromethane	108	83.6-123		%REC	246034	1	07/25/2017 21:11	MD
Surr: Toluene-d8	99.7	81.8-118		%REC	246034	1	07/25/2017 21:11	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-41
Project Name: Silverstein	Collection Date: 7/18/2017 6:08:00 PM
Lab ID: 1707H06-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
2-Butanone	BRL	50		ug/L	246034	1	07/25/2017 21:37	MD
2-Hexanone	BRL	10		ug/L	246034	1	07/25/2017 21:37	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246034	1	07/25/2017 21:37	MD
Acetone	BRL	50		ug/L	246034	1	07/25/2017 21:37	MD
Benzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Bromodichloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Bromoform	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Bromomethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Carbon disulfide	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Carbon tetrachloride	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Chlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Chloroethane	BRL	10		ug/L	246034	1	07/25/2017 21:37	MD
Chloroform	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Chloromethane	BRL	3.0		ug/L	246034	1	07/25/2017 21:37	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Cyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Dibromochloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Dichlorodifluoromethane	BRL	10		ug/L	246034	1	07/25/2017 21:37	MD
Ethylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Freon-113	BRL	10		ug/L	246034	1	07/25/2017 21:37	MD
Isopropylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
m,p-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Methyl acetate	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Methylcyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Methylene chloride	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
o-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-41
Project Name:	Silverstein	Collection Date:	7/18/2017 6:08:00 PM
Lab ID:	1707H06-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Tetrachloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Toluene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Trichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246034	1	07/25/2017 21:37	MD
Vinyl chloride	BRL	2.0		ug/L	246034	1	07/25/2017 21:37	MD
Surr: 4-Bromofluorobenzene	78	66.1-129		%REC	246034	1	07/25/2017 21:37	MD
Surr: Dibromofluoromethane	112	83.6-123		%REC	246034	1	07/25/2017 21:37	MD
Surr: Toluene-d8	104	81.8-118		%REC	246034	1	07/25/2017 21:37	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-35
Project Name:	Silverstein	Collection Date:	7/19/2017 9:00:00 AM
Lab ID:	1707H06-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
2-Butanone	BRL	50		ug/L	246034	1	07/25/2017 22:04	MD
2-Hexanone	BRL	10		ug/L	246034	1	07/25/2017 22:04	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246034	1	07/25/2017 22:04	MD
Acetone	BRL	50		ug/L	246034	1	07/25/2017 22:04	MD
Benzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Bromodichloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Bromoform	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Bromomethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Carbon disulfide	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Carbon tetrachloride	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Chlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Chloroethane	BRL	10		ug/L	246034	1	07/25/2017 22:04	MD
Chloroform	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Chloromethane	BRL	3.0		ug/L	246034	1	07/25/2017 22:04	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Cyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Dibromochloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Dichlorodifluoromethane	BRL	10		ug/L	246034	1	07/25/2017 22:04	MD
Ethylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Freon-113	BRL	10		ug/L	246034	1	07/25/2017 22:04	MD
Isopropylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
m,p-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Methyl acetate	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Methylcyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Methylene chloride	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
o-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-35
Project Name:	Silverstein	Collection Date:	7/19/2017 9:00:00 AM
Lab ID:	1707H06-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Tetrachloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Toluene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Trichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:04	MD
Vinyl chloride	BRL	2.0		ug/L	246034	1	07/25/2017 22:04	MD
Surr: 4-Bromofluorobenzene	75.9	66.1-129		%REC	246034	1	07/25/2017 22:04	MD
Surr: Dibromofluoromethane	112	83.6-123		%REC	246034	1	07/25/2017 22:04	MD
Surr: Toluene-d8	105	81.8-118		%REC	246034	1	07/25/2017 22:04	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-25R
Project Name: Silverstein	Collection Date: 7/19/2017 11:12:00 AM
Lab ID: 1707H06-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
2-Butanone	BRL	50		ug/L	246034	1	07/25/2017 22:31	MD
2-Hexanone	BRL	10		ug/L	246034	1	07/25/2017 22:31	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246034	1	07/25/2017 22:31	MD
Acetone	BRL	50		ug/L	246034	1	07/25/2017 22:31	MD
Benzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Bromodichloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Bromoform	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Bromomethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Carbon disulfide	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Carbon tetrachloride	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Chlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Chloroethane	BRL	10		ug/L	246034	1	07/25/2017 22:31	MD
Chloroform	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Chloromethane	BRL	3.0		ug/L	246034	1	07/25/2017 22:31	MD
cis-1,2-Dichloroethene	16	5.0		ug/L	246034	1	07/25/2017 22:31	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Cyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Dibromochloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Dichlorodifluoromethane	BRL	10		ug/L	246034	1	07/25/2017 22:31	MD
Ethylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Freon-113	BRL	10		ug/L	246034	1	07/25/2017 22:31	MD
Isopropylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
m,p-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Methyl acetate	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Methylcyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Methylene chloride	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
o-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-25R
Project Name: Silverstein	Collection Date: 7/19/2017 11:12:00 AM
Lab ID: 1707H06-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Tetrachloroethene	510	50		ug/L	246034	10	07/27/2017 16:21	NP
Toluene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Trichloroethene	7.4	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:31	MD
Vinyl chloride	BRL	2.0		ug/L	246034	1	07/25/2017 22:31	MD
Surr: 4-Bromofluorobenzene	73.4	66.1-129		%REC	246034	1	07/25/2017 22:31	MD
Surr: 4-Bromofluorobenzene	91.2	66.1-129		%REC	246034	10	07/27/2017 16:21	NP
Surr: Dibromofluoromethane	97.2	83.6-123		%REC	246034	10	07/27/2017 16:21	NP
Surr: Dibromofluoromethane	111	83.6-123		%REC	246034	1	07/25/2017 22:31	MD
Surr: Toluene-d8	95.6	81.8-118		%REC	246034	10	07/27/2017 16:21	NP
Surr: Toluene-d8	103	81.8-118		%REC	246034	1	07/25/2017 22:31	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EW-S
Project Name: Silverstein	Collection Date: 7/19/2017 1:37:00 PM
Lab ID: 1707H06-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
2-Butanone	BRL	50		ug/L	246034	1	07/25/2017 22:58	MD
2-Hexanone	BRL	10		ug/L	246034	1	07/25/2017 22:58	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246034	1	07/25/2017 22:58	MD
Acetone	BRL	50		ug/L	246034	1	07/25/2017 22:58	MD
Benzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Bromodichloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Bromoform	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Bromomethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Carbon disulfide	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Carbon tetrachloride	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Chlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Chloroethane	BRL	10		ug/L	246034	1	07/25/2017 22:58	MD
Chloroform	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Chloromethane	BRL	3.0		ug/L	246034	1	07/25/2017 22:58	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Cyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Dibromochloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Dichlorodifluoromethane	BRL	10		ug/L	246034	1	07/25/2017 22:58	MD
Ethylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Freon-113	BRL	10		ug/L	246034	1	07/25/2017 22:58	MD
Isopropylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
m,p-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Methyl acetate	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Methylcyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Methylene chloride	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
o-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EW-S
Project Name: Silverstein	Collection Date: 7/19/2017 1:37:00 PM
Lab ID: 1707H06-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Tetrachloroethene	100	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Toluene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Trichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246034	1	07/25/2017 22:58	MD
Vinyl chloride	BRL	2.0		ug/L	246034	1	07/25/2017 22:58	MD
Surr: 4-Bromofluorobenzene	76.8	66.1-129		%REC	246034	1	07/25/2017 22:58	MD
Surr: Dibromofluoromethane	112	83.6-123		%REC	246034	1	07/25/2017 22:58	MD
Surr: Toluene-d8	103	81.8-118		%REC	246034	1	07/25/2017 22:58	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-22R2
Project Name: Silverstein	Collection Date: 7/19/2017 3:48:00 PM
Lab ID: 1707H06-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
2-Butanone	BRL	50		ug/L	246034	1	07/25/2017 23:24	MD
2-Hexanone	BRL	10		ug/L	246034	1	07/25/2017 23:24	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246034	1	07/25/2017 23:24	MD
Acetone	BRL	50		ug/L	246034	1	07/25/2017 23:24	MD
Benzene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Bromodichloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Bromoform	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Bromomethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Carbon disulfide	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Carbon tetrachloride	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Chlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Chloroethane	BRL	10		ug/L	246034	1	07/25/2017 23:24	MD
Chloroform	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Chloromethane	BRL	3.0		ug/L	246034	1	07/25/2017 23:24	MD
cis-1,2-Dichloroethene	5.8	5.0		ug/L	246034	1	07/25/2017 23:24	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Cyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Dibromochloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Dichlorodifluoromethane	BRL	10		ug/L	246034	1	07/25/2017 23:24	MD
Ethylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Freon-113	BRL	10		ug/L	246034	1	07/25/2017 23:24	MD
Isopropylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
m,p-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Methyl acetate	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Methylcyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Methylene chloride	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
o-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-22R2
Project Name:	Silverstein	Collection Date:	7/19/2017 3:48:00 PM
Lab ID:	1707H06-008	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Tetrachloroethene	190	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Toluene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Trichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246034	1	07/25/2017 23:24	MD
Vinyl chloride	BRL	2.0		ug/L	246034	1	07/25/2017 23:24	MD
Surr: 4-Bromofluorobenzene	76.8	66.1-129		%REC	246034	1	07/25/2017 23:24	MD
Surr: Dibromofluoromethane	110	83.6-123		%REC	246034	1	07/25/2017 23:24	MD
Surr: Toluene-d8	107	81.8-118		%REC	246034	1	07/25/2017 23:24	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: TRIP BLANK
Project Name: Silverstein	Collection Date: 7/20/2017
Lab ID: 1707H06-009	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
2-Butanone	BRL	50		ug/L	246034	1	07/25/2017 17:27	MD
2-Hexanone	BRL	10		ug/L	246034	1	07/25/2017 17:27	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246034	1	07/25/2017 17:27	MD
Acetone	BRL	50		ug/L	246034	1	07/25/2017 17:27	MD
Benzene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Bromodichloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Bromoform	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Bromomethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Carbon disulfide	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Carbon tetrachloride	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Chlorobenzene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Chloroethane	BRL	10		ug/L	246034	1	07/25/2017 17:27	MD
Chloroform	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Chloromethane	BRL	3.0		ug/L	246034	1	07/25/2017 17:27	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Cyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Dibromochloromethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Dichlorodifluoromethane	BRL	10		ug/L	246034	1	07/25/2017 17:27	MD
Ethylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Freon-113	BRL	10		ug/L	246034	1	07/25/2017 17:27	MD
Isopropylbenzene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
m,p-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Methyl acetate	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Methylcyclohexane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Methylene chloride	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
o-Xylene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	TRIP BLANK
Project Name:	Silverstein	Collection Date:	7/20/2017
Lab ID:	1707H06-009	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Tetrachloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Toluene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Trichloroethene	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246034	1	07/25/2017 17:27	MD
Vinyl chloride	BRL	2.0		ug/L	246034	1	07/25/2017 17:27	MD
Surr: 4-Bromofluorobenzene	79	66.1-129		%REC	246034	1	07/25/2017 17:27	MD
Surr: Dibromofluoromethane	108	83.6-123		%REC	246034	1	07/25/2017 17:27	MD
Surr: Toluene-d8	104	81.8-118		%REC	246034	1	07/25/2017 17:27	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-25R Lab ID: 1707H06-006 Collection Date: 7/19/2017 11:12:00 AM Matrix: Groundwater							
TCL VOLATILE ORGANICS SW8260B				(SW5030B)			
cis-1,2-Dichloroethene	16		0.28	5.0	ug/L	246034	1
Tetrachloroethene	510		4.6	50	ug/L	246034	10
Trichloroethene	7.4		0.30	5.0	ug/L	246034	1
Client Sample ID: EW-S Lab ID: 1707H06-007 Collection Date: 7/19/2017 1:37:00 PM Matrix: Groundwater							
TCL VOLATILE ORGANICS SW8260B				(SW5030B)			
Tetrachloroethene	100		0.46	5.0	ug/L	246034	1
Client Sample ID: MW-22R2 Lab ID: 1707H06-008 Collection Date: 7/19/2017 3:48:00 PM Matrix: Groundwater							
TCL VOLATILE ORGANICS SW8260B				(SW5030B)			
cis-1,2-Dichloroethene	5.8		0.28	5.0	ug/L	246034	1
Tetrachloroethene	190		0.46	5.0	ug/L	246034	1

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707H06

ANALYTICAL QC SUMMARY REPORT**BatchID: 246034**

Sample ID: MB-246034	Client ID:				Units: ug/L	Prep Date: 07/25/2017	Run No: 348301				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 246034	Analysis Date: 07/25/2017	Seq No: 7652936				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707H06

ANALYTICAL QC SUMMARY REPORT

BatchID: 246034

Sample ID: MB-246034	Client ID:					Units: ug/L	Prep Date: 07/25/2017		Run No: 348301		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B				BatchID: 246034	Analysis Date: 07/25/2017		Seq No: 7652936		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.25	0	50.00		82.5	66.1	129				
Surr: Dibromofluoromethane	52.88	0	50.00		106	83.6	123				
Surr: Toluene-d8	51.34	0	50.00		103	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707H06

ANALYTICAL QC SUMMARY REPORT**BatchID: 246034**

Sample ID: LCS-246034	Client ID:					Units: ug/L	Prep Date: 07/25/2017	Run No: 348343			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 246034	Analysis Date: 07/26/2017	Seq No: 7655023			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	22.17	5.0	20.00		111	68	139				
Benzene	21.31	5.0	20.00		107	74	125				
Chlorobenzene	23.65	5.0	20.00		118	75.7	123				
Toluene	20.02	5.0	20.00		100	75.9	126				
Trichloroethene	20.36	5.0	20.00		102	70.6	129				
Surr: 4-Bromofluorobenzene	46.24	0	50.00		92.5	66.1	129				
Surr: Dibromofluoromethane	53.37	0	50.00		107	83.6	123				
Surr: Toluene-d8	49.25	0	50.00		98.5	81.8	118				

Sample ID: 1707138-001AMS	Client ID:				Units: ug/L	Prep Date: 07/25/2017	Run No: 348301				
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 246034	Analysis Date: 07/25/2017	Seq No: 7652965				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	67.30	5.0	50.00		135	64.3	149				
Benzene	60.76	5.0	50.00	5.520	110	71.6	132				
Chlorobenzene	54.91	5.0	50.00		110	73.1	126				
Toluene	49.82	5.0	50.00		99.6	72.5	135				
Trichloroethene	53.34	5.0	50.00		107	70.2	132				
Surr: 4-Bromofluorobenzene	42.97	0	50.00		85.9	66.1	129				
Surr: Dibromofluoromethane	50.86	0	50.00		102	83.6	123				
Surr: Toluene-d8	50.75	0	50.00		102	81.8	118				

Sample ID: 1707138-001AMSD	Client ID:				Units: ug/L	Prep Date: 07/25/2017	Run No: 348301				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 246034	Analysis Date: 07/25/2017	Seq No: 7652966				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.54	5.0	50.00		121	64.3	149	67.30	10.6	30.8	
Benzene	59.36	5.0	50.00	5.520	108	71.6	132	60.76	2.33	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707H06

ANALYTICAL QC SUMMARY REPORT

BatchID: 246034

Sample ID: 1707I38-001AMSD	Client ID:					Units: ug/L	Prep Date: 07/25/2017	Run No: 348301			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 246034	Analysis Date: 07/25/2017	Seq No: 7652966			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	54.10	5.0	50.00		108	73.1	126	54.91	1.49	26.6	
Toluene	47.88	5.0	50.00		95.8	72.5	135	49.82	3.97	23.2	
Trichloroethene	53.70	5.0	50.00		107	70.2	132	53.34	0.673	27.7	
Surr: 4-Bromofluorobenzene	39.47	0	50.00		78.9	66.1	129	42.97	0	0	
Surr: Dibromofluoromethane	51.58	0	50.00		103	83.6	123	50.86	0	0	
Surr: Toluene-d8	50.58	0	50.00		101	81.8	118	50.75	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 31, 2017

Rodger Daniel
American Environmental & Construction Services Inc
1170 Tidwell Rd
Alpharetta GA 30004

RE: Silverstein

Dear Rodger Daniel:

Order No: 1707I95

Analytical Environmental Services, Inc. received 3 samples on 7/22/2017 9:50:00 AM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager

CHAIN OF CUSTODY

TR 7/22/17
Work Order: 1707795
1707795

Date: 7/21/17 Page 1 of 1

[illegible]

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Conv - Original Yellow Conv - Client

Analytical Environmental Services, Inc
Date: 31-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-43
Project Name:	Silverstein	Collection Date:	7/21/2017 1:50:00 PM
Lab ID:	1707195-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,1-Dichloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,1-Dichloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,2-Dibromoethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,2-Dichloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,2-Dichloropropane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
2-Butanone	BRL	50		ug/L	246026	1	07/28/2017 16:06	AR
2-Hexanone	BRL	10		ug/L	246026	1	07/28/2017 16:06	AR
4-Methyl-2-pentanone	BRL	10		ug/L	246026	1	07/28/2017 16:06	AR
Acetone	BRL	50		ug/L	246026	1	07/28/2017 16:06	AR
Benzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Bromodichloromethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Bromoform	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Bromomethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Carbon disulfide	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Carbon tetrachloride	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Chlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Chloroethane	BRL	10		ug/L	246026	1	07/28/2017 16:06	AR
Chloroform	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Chloromethane	BRL	3.0		ug/L	246026	1	07/28/2017 16:06	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Cyclohexane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Dibromochloromethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Dichlorodifluoromethane	BRL	10		ug/L	246026	1	07/28/2017 16:06	AR
Ethylbenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Freon-113	BRL	10		ug/L	246026	1	07/28/2017 16:06	AR
Isopropylbenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
m,p-Xylene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Methyl acetate	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Methylcyclohexane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Methylene chloride	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
o-Xylene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-43
Project Name:	Silverstein	Collection Date:	7/21/2017 1:50:00 PM
Lab ID:	1707195-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Tetrachloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Toluene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Trichloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Trichlorofluoromethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:06	AR
Vinyl chloride	BRL	2.0		ug/L	246026	1	07/28/2017 16:06	AR
Surr: 4-Bromofluorobenzene	77	66.1-129		%REC	246026	1	07/28/2017 16:06	AR
Surr: Dibromofluoromethane	120	83.6-123		%REC	246026	1	07/28/2017 16:06	AR
Surr: Toluene-d8	89.6	81.8-118		%REC	246026	1	07/28/2017 16:06	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: W-3R
Project Name: Silverstein	Collection Date: 7/21/2017 4:05:00 PM
Lab ID: 1707195-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,1-Dichloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,1-Dichloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,2-Dibromoethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,2-Dichloroethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,2-Dichloropropane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
2-Butanone	BRL	50		ug/L	246026	1	07/28/2017 16:35	AR
2-Hexanone	BRL	10		ug/L	246026	1	07/28/2017 16:35	AR
4-Methyl-2-pentanone	BRL	10		ug/L	246026	1	07/28/2017 16:35	AR
Acetone	BRL	50		ug/L	246026	1	07/28/2017 16:35	AR
Benzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Bromodichloromethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Bromoform	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Bromomethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Carbon disulfide	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Carbon tetrachloride	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Chlorobenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Chloroethane	BRL	10		ug/L	246026	1	07/28/2017 16:35	AR
Chloroform	9.6	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Chloromethane	BRL	3.0		ug/L	246026	1	07/28/2017 16:35	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Cyclohexane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Dibromochloromethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Dichlorodifluoromethane	BRL	10		ug/L	246026	1	07/28/2017 16:35	AR
Ethylbenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Freon-113	BRL	10		ug/L	246026	1	07/28/2017 16:35	AR
Isopropylbenzene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
m,p-Xylene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Methyl acetate	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Methylcyclohexane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Methylene chloride	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
o-Xylene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 31-Jul-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	W-3R
Project Name:	Silverstein	Collection Date:	7/21/2017 4:05:00 PM
Lab ID:	1707195-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Tetrachloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Toluene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Trichloroethene	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Trichlorofluoromethane	BRL	5.0		ug/L	246026	1	07/28/2017 16:35	AR
Vinyl chloride	BRL	2.0		ug/L	246026	1	07/28/2017 16:35	AR
Surr: 4-Bromofluorobenzene	81.6	66.1-129		%REC	246026	1	07/28/2017 16:35	AR
Surr: Dibromofluoromethane	119	83.6-123		%REC	246026	1	07/28/2017 16:35	AR
Surr: Toluene-d8	90	81.8-118		%REC	246026	1	07/28/2017 16:35	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Jul-17

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1707195-003

Client Sample ID: TRIP BLANK
Collection Date: 7/22/2017
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,1,2-Trichloroethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,1-Dichloroethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,1-Dichloroethene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,2-Dibromoethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,2-Dichlorobenzene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,2-Dichloroethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,2-Dichloropropane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,3-Dichlorobenzene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
1,4-Dichlorobenzene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
2-Butanone	BRL	50		ug/L	246026	1	07/25/2017 20:01	MD
2-Hexanone	BRL	10		ug/L	246026	1	07/25/2017 20:01	MD
4-Methyl-2-pentanone	BRL	10		ug/L	246026	1	07/25/2017 20:01	MD
Acetone	BRL	50		ug/L	246026	1	07/25/2017 20:01	MD
Benzene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Bromodichloromethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Bromoform	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Bromomethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Carbon disulfide	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Carbon tetrachloride	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Chlorobenzene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Chloroethane	BRL	10		ug/L	246026	1	07/25/2017 20:01	MD
Chloroform	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Chloromethane	BRL	3.0		ug/L	246026	1	07/25/2017 20:01	MD
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Cyclohexane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Dibromochloromethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Dichlorodifluoromethane	BRL	10		ug/L	246026	1	07/25/2017 20:01	MD
Ethylbenzene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Freon-113	BRL	10		ug/L	246026	1	07/25/2017 20:01	MD
Isopropylbenzene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
m,p-Xylene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Methyl acetate	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Methyl tert-butyl ether	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Methylcyclohexane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Methylene chloride	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
o-Xylene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 31-Jul-17

Client: American Environmental & Construction Services Inc	Client Sample ID: TRIP BLANK
Project Name: Silverstein	Collection Date: 7/22/2017
Lab ID: 1707195-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Tetrachloroethene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Toluene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Trichloroethene	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Trichlorofluoromethane	BRL	5.0		ug/L	246026	1	07/25/2017 20:01	MD
Vinyl chloride	BRL	2.0		ug/L	246026	1	07/25/2017 20:01	MD
Surr: 4-Bromofluorobenzene	90.5	66.1-129		%REC	246026	1	07/25/2017 20:01	MD
Surr: Dibromofluoromethane	96.4	83.6-123		%REC	246026	1	07/25/2017 20:01	MD
Surr: Toluene-d8	97.7	81.8-118		%REC	246026	1	07/25/2017 20:01	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SUMMARY OF ANALYTES DETECTED

Analyses		Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: W-3R					Lab ID:	1707195-002		
Collection Date: 7/21/2017 4:05:00 PM					Matrix:	Groundwater		
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Chloroform		9.6		0.20	5.0	ug/L	246026	1

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707I95

ANALYTICAL QC SUMMARY REPORT**BatchID: 246026**

Sample ID: MB-246026	Client ID:					Units: ug/L	Prep Date: 07/25/2017	Run No: 348257			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 246026	Analysis Date: 07/25/2017	Seq No: 7652813			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707I95

ANALYTICAL QC SUMMARY REPORT

BatchID: 246026

Sample ID: MB-246026	Client ID:					Units: ug/L	Prep Date: 07/25/2017		Run No: 348257		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B				BatchID: 246026	Analysis Date: 07/25/2017		Seq No: 7652813		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.77	0	50.00		95.5	66.1	129				
Surr: Dibromofluoromethane	47.26	0	50.00		94.5	83.6	123				
Surr: Toluene-d8	47.98	0	50.00		96.0	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707I95

ANALYTICAL QC SUMMARY REPORT

BatchID: 246026

Sample ID: MB-246026	Client ID:					Units: ug/L	Prep Date: 07/25/2017		Run No: 348398		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 246026	Analysis Date: 07/26/2017		Seq No: 7655152		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707I95

ANALYTICAL QC SUMMARY REPORT**BatchID: 246026**

Sample ID: MB-246026	Client ID:					Units: ug/L	Prep Date: 07/25/2017		Run No: 348398		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 246026	Analysis Date: 07/26/2017		Seq No: 7655152		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	39.27	0	50.00		78.5	66.1	129				
Surr: Dibromofluoromethane	54.76	0	50.00		110	83.6	123				
Surr: Toluene-d8	52.74	0	50.00		105	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707I95

ANALYTICAL QC SUMMARY REPORT**BatchID: 246026**

Sample ID: LCS-246026	Client ID:					Units: ug/L	Prep Date: 07/25/2017	Run No: 348257			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 246026	Analysis Date: 07/25/2017	Seq No: 7652812			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	42.56	5.0	50.00		85.1	68	139				
Benzene	44.66	5.0	50.00		89.3	74	125				
Chlorobenzene	48.39	5.0	50.00		96.8	75.7	123				
Toluene	45.68	5.0	50.00		91.4	75.9	126				
Trichloroethene	47.78	5.0	50.00		95.6	70.6	129				
Surr: 4-Bromofluorobenzene	46.31	0	50.00		92.6	66.1	129				
Surr: Dibromofluoromethane	46.80	0	50.00		93.6	83.6	123				
Surr: Toluene-d8	48.42	0	50.00		96.8	81.8	118				

Sample ID: LCS-246026		Client ID:			Units: ug/L		Prep Date: 07/25/2017		Run No: 348398		
SampleType: LCS		TestCode: TCL VOLATILE ORGANICS SW8260B			BatchID: 246026		Analysis Date: 07/26/2017		Seq No: 7655151		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.08	5.0	50.00		120	68	139				
Benzene	51.51	5.0	50.00		103	74	125				
Chlorobenzene	51.29	5.0	50.00		103	75.7	123				
Toluene	47.38	5.0	50.00		94.8	75.9	126				
Trichloroethene	51.48	5.0	50.00		103	70.6	129				
Surr: 4-Bromofluorobenzene	41.62	0	50.00		83.2	66.1	129				
Surr: Dibromofluoromethane	52.91	0	50.00		106	83.6	123				
Surr: Toluene-d8	51.34	0	50.00		103	81.8	118				

Sample ID: 1707I68-002AMS	Client ID:				Units: ug/L	Prep Date: 07/25/2017	Run No: 348398				
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 246026	Analysis Date: 07/26/2017	Seq No: 7655154				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	71.51	5.0	50.00		143	64.3	149				
Benzene	57.15	5.0	50.00		114	71.6	132				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707I95

ANALYTICAL QC SUMMARY REPORT**BatchID: 246026**

Sample ID: 1707I68-002AMS	Client ID:				Units: ug/L	Prep Date: 07/25/2017	Run No: 348398				
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 246026	Analysis Date: 07/26/2017	Seq No: 7655154				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	59.65	5.0	50.00	2.990	113	73.1	126				
Toluene	52.76	5.0	50.00		106	72.5	135				
Trichloroethene	56.97	5.0	50.00		114	70.2	132				
Surr: 4-Bromofluorobenzene	39.82	0	50.00		79.6	66.1	129				
Surr: Dibromofluoromethane	53.89	0	50.00		108	83.6	123				
Surr: Toluene-d8	50.94	0	50.00		102	81.8	118				

Sample ID: 1707I68-002AMSD	Client ID:				Units: ug/L	Prep Date: 07/25/2017	Run No: 348398				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 246026	Analysis Date: 07/26/2017	Seq No: 7655155				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	66.51	5.0	50.00		133	64.3	149	71.51	7.25	30.8	
Benzene	53.67	5.0	50.00		107	71.6	132	57.15	6.28	20.7	
Chlorobenzene	55.76	5.0	50.00	2.990	106	73.1	126	59.65	6.74	26.6	
Toluene	48.51	5.0	50.00		97.0	72.5	135	52.76	8.39	23.2	
Trichloroethene	52.91	5.0	50.00		106	70.2	132	56.97	7.39	27.7	
Surr: 4-Bromofluorobenzene	38.18	0	50.00		76.4	66.1	129	39.82	0	0	
Surr: Dibromofluoromethane	53.58	0	50.00		107	83.6	123	53.89	0	0	
Surr: Toluene-d8	50.11	0	50.00		100	81.8	118	50.94	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 01, 2017

Rodger Daniel
American Environmental & Construction Services Inc

1170 Tidwell Rd
Alpharetta GA 30004

RE: Silverstein

Dear Rodger Daniel:

Order No: 1707L38

Analytical Environmental Services, Inc. received 10 samples on 7/26/2017 10:20:00 AM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.

-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager

CHAIN OF CUSTODY

Date: 7/25/17 Page 1 of 1

[illegible]

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1707L38-001

Client Sample ID: EW-ER2
Collection Date: 7/24/2017 10:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
2-Butanone	BRL	50		ug/L	246152	1	07/31/2017 18:36	NH
2-Hexanone	BRL	10		ug/L	246152	1	07/31/2017 18:36	NH
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/31/2017 18:36	NH
Acetone	BRL	50		ug/L	246152	1	07/31/2017 18:36	NH
Benzene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Bromoform	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Bromomethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Chloroethane	BRL	10		ug/L	246152	1	07/31/2017 18:36	NH
Chloroform	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Chloromethane	BRL	3.0		ug/L	246152	1	07/31/2017 18:36	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Cyclohexane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/31/2017 18:36	NH
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Freon-113	BRL	10		ug/L	246152	1	07/31/2017 18:36	NH
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Methyl acetate	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Methylene chloride	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
o-Xylene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	EW-ER2
Project Name:	Silverstein	Collection Date:	7/24/2017 10:30:00 AM
Lab ID:	1707L38-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Tetrachloroethene	32	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Toluene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Trichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/31/2017 18:36	NH
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/31/2017 18:36	NH
Surr: 4-Bromofluorobenzene	78.2	66.1-129		%REC	246152	1	07/31/2017 18:36	NH
Surr: Dibromofluoromethane	108	83.6-123		%REC	246152	1	07/31/2017 18:36	NH
Surr: Toluene-d8	99.6	81.8-118		%REC	246152	1	07/31/2017 18:36	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-13R2
Project Name: Silverstein	Collection Date: 7/24/2017 12:42:00 PM
Lab ID: 1707L38-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
2-Butanone	BRL	50		ug/L	246152	1	07/31/2017 19:03	NH
2-Hexanone	BRL	10		ug/L	246152	1	07/31/2017 19:03	NH
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/31/2017 19:03	NH
Acetone	BRL	50		ug/L	246152	1	07/31/2017 19:03	NH
Benzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Bromoform	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Bromomethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Chloroethane	BRL	10		ug/L	246152	1	07/31/2017 19:03	NH
Chloroform	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Chloromethane	BRL	3.0		ug/L	246152	1	07/31/2017 19:03	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Cyclohexane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/31/2017 19:03	NH
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Freon-113	BRL	10		ug/L	246152	1	07/31/2017 19:03	NH
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Methyl acetate	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Methylene chloride	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
o-Xylene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-13R2
Project Name:	Silverstein	Collection Date:	7/24/2017 12:42:00 PM
Lab ID:	1707L38-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Tetrachloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Toluene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Trichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:03	NH
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/31/2017 19:03	NH
Surr: 4-Bromofluorobenzene	78.5	66.1-129		%REC	246152	1	07/31/2017 19:03	NH
Surr: Dibromofluoromethane	105	83.6-123		%REC	246152	1	07/31/2017 19:03	NH
Surr: Toluene-d8	100	81.8-118		%REC	246152	1	07/31/2017 19:03	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1707L38-003

Client Sample ID: BDS-1
Collection Date: 7/24/2017
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
2-Butanone	BRL	50		ug/L	246152	1	07/31/2017 19:30	NH
2-Hexanone	BRL	10		ug/L	246152	1	07/31/2017 19:30	NH
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/31/2017 19:30	NH
Acetone	BRL	50		ug/L	246152	1	07/31/2017 19:30	NH
Benzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Bromoform	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Bromomethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Chloroethane	BRL	10		ug/L	246152	1	07/31/2017 19:30	NH
Chloroform	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Chloromethane	BRL	3.0		ug/L	246152	1	07/31/2017 19:30	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Cyclohexane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/31/2017 19:30	NH
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Freon-113	BRL	10		ug/L	246152	1	07/31/2017 19:30	NH
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Methyl acetate	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Methylene chloride	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
o-Xylene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	BDS-1
Project Name:	Silverstein	Collection Date:	7/24/2017
Lab ID:	1707L38-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Tetrachloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Toluene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Trichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/31/2017 19:30	NH
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/31/2017 19:30	NH
Surr: 4-Bromofluorobenzene	78.9	66.1-129		%REC	246152	1	07/31/2017 19:30	NH
Surr: Dibromofluoromethane	108	83.6-123		%REC	246152	1	07/31/2017 19:30	NH
Surr: Toluene-d8	101	81.8-118		%REC	246152	1	07/31/2017 19:30	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-Aug-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-44
Project Name: Silverstein	Collection Date: 7/24/2017 5:00:00 PM
Lab ID: 1707L38-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
2-Butanone	BRL	50		ug/L	246152	1	07/28/2017 20:26	AR
2-Hexanone	BRL	10		ug/L	246152	1	07/28/2017 20:26	AR
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/28/2017 20:26	AR
Acetone	BRL	50		ug/L	246152	1	07/28/2017 20:26	AR
Benzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Bromoform	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Bromomethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Chloroethane	BRL	10		ug/L	246152	1	07/28/2017 20:26	AR
Chloroform	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Chloromethane	BRL	3.0		ug/L	246152	1	07/28/2017 20:26	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Cyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/28/2017 20:26	AR
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Freon-113	BRL	10		ug/L	246152	1	07/28/2017 20:26	AR
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Methyl acetate	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Methylene chloride	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
o-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-44
Project Name:	Silverstein	Collection Date:	7/24/2017 5:00:00 PM
Lab ID:	1707L38-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Tetrachloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Toluene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Trichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:26	AR
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/28/2017 20:26	AR
Surr: 4-Bromofluorobenzene	75.7	66.1-129		%REC	246152	1	07/28/2017 20:26	AR
Surr: Dibromofluoromethane	110	83.6-123		%REC	246152	1	07/28/2017 20:26	AR
Surr: Toluene-d8	103	81.8-118		%REC	246152	1	07/28/2017 20:26	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-8
Project Name: Silverstein	Collection Date: 7/24/2017 6:55:00 PM
Lab ID: 1707L38-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
2-Butanone	BRL	50		ug/L	246152	1	07/28/2017 20:53	AR
2-Hexanone	BRL	10		ug/L	246152	1	07/28/2017 20:53	AR
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/28/2017 20:53	AR
Acetone	BRL	50		ug/L	246152	1	07/28/2017 20:53	AR
Benzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Bromoform	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Bromomethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Chloroethane	BRL	10		ug/L	246152	1	07/28/2017 20:53	AR
Chloroform	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Chloromethane	BRL	3.0		ug/L	246152	1	07/28/2017 20:53	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Cyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/28/2017 20:53	AR
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Freon-113	BRL	10		ug/L	246152	1	07/28/2017 20:53	AR
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Methyl acetate	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Methylene chloride	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
o-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-Aug-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-8
Project Name: Silverstein	Collection Date: 7/24/2017 6:55:00 PM
Lab ID: 1707L38-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Tetrachloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Toluene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Trichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/28/2017 20:53	AR
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/28/2017 20:53	AR
Surr: 4-Bromofluorobenzene	78	66.1-129		%REC	246152	1	07/28/2017 20:53	AR
Surr: Dibromofluoromethane	112	83.6-123		%REC	246152	1	07/28/2017 20:53	AR
Surr: Toluene-d8	104	81.8-118		%REC	246152	1	07/28/2017 20:53	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EQUIP BLANK
Project Name: Silverstein	Collection Date: 7/25/2017 8:25:00 AM
Lab ID: 1707L38-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
2-Butanone	BRL	50		ug/L	246152	1	07/31/2017 17:42	NH
2-Hexanone	BRL	10		ug/L	246152	1	07/31/2017 17:42	NH
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/31/2017 17:42	NH
Acetone	BRL	50		ug/L	246152	1	07/31/2017 17:42	NH
Benzene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Bromoform	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Bromomethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Chloroethane	BRL	10		ug/L	246152	1	07/31/2017 17:42	NH
Chloroform	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Chloromethane	BRL	3.0		ug/L	246152	1	07/31/2017 17:42	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Cyclohexane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/31/2017 17:42	NH
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Freon-113	BRL	10		ug/L	246152	1	07/31/2017 17:42	NH
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Methyl acetate	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Methylene chloride	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
o-Xylene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-Aug-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EQUIP BLANK
Project Name: Silverstein	Collection Date: 7/25/2017 8:25:00 AM
Lab ID: 1707L38-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Tetrachloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Toluene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Trichloroethene	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/31/2017 17:42	NH
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/31/2017 17:42	NH
Surr: 4-Bromofluorobenzene	81.8	66.1-129		%REC	246152	1	07/31/2017 17:42	NH
Surr: Dibromofluoromethane	97.8	83.6-123		%REC	246152	1	07/31/2017 17:42	NH
Surr: Toluene-d8	102	81.8-118		%REC	246152	1	07/31/2017 17:42	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client: American Environmental & Construction Services Inc	Client Sample ID: MW-18R
Project Name: Silverstein	Collection Date: 7/25/2017 10:30:00 AM
Lab ID: 1707L38-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
2-Butanone	BRL	50		ug/L	246152	1	07/28/2017 21:47	AR
2-Hexanone	BRL	10		ug/L	246152	1	07/28/2017 21:47	AR
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/28/2017 21:47	AR
Acetone	BRL	50		ug/L	246152	1	07/28/2017 21:47	AR
Benzene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Bromoform	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Bromomethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Chloroethane	BRL	10		ug/L	246152	1	07/28/2017 21:47	AR
Chloroform	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Chloromethane	BRL	3.0		ug/L	246152	1	07/28/2017 21:47	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Cyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/28/2017 21:47	AR
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Freon-113	BRL	10		ug/L	246152	1	07/28/2017 21:47	AR
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Methyl acetate	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Methylene chloride	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
o-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	MW-18R
Project Name:	Silverstein	Collection Date:	7/25/2017 10:30:00 AM
Lab ID:	1707L38-007	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Tetrachloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Toluene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Trichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/28/2017 21:47	AR
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/28/2017 21:47	AR
Surr: 4-Bromofluorobenzene	77.3	66.1-129		%REC	246152	1	07/28/2017 21:47	AR
Surr: Dibromofluoromethane	110	83.6-123		%REC	246152	1	07/28/2017 21:47	AR
Surr: Toluene-d8	101	81.8-118		%REC	246152	1	07/28/2017 21:47	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-Aug-17

Client: American Environmental & Construction Services Inc	Client Sample ID: EW-KR
Project Name: Silverstein	Collection Date: 7/25/2017 12:40:00 PM
Lab ID: 1707L38-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
2-Butanone	BRL	50		ug/L	246152	1	07/28/2017 22:14	AR
2-Hexanone	BRL	10		ug/L	246152	1	07/28/2017 22:14	AR
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/28/2017 22:14	AR
Acetone	BRL	50		ug/L	246152	1	07/28/2017 22:14	AR
Benzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Bromoform	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Bromomethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Chloroethane	BRL	10		ug/L	246152	1	07/28/2017 22:14	AR
Chloroform	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Chloromethane	BRL	3.0		ug/L	246152	1	07/28/2017 22:14	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Cyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/28/2017 22:14	AR
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Freon-113	BRL	10		ug/L	246152	1	07/28/2017 22:14	AR
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Methyl acetate	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Methylene chloride	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
o-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	EW-KR
Project Name:	Silverstein	Collection Date:	7/25/2017 12:40:00 PM
Lab ID:	1707L38-008	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Tetrachloroethene	130	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Toluene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Trichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:14	AR
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/28/2017 22:14	AR
Surr: 4-Bromofluorobenzene	75	66.1-129		%REC	246152	1	07/28/2017 22:14	AR
Surr: Dibromofluoromethane	108	83.6-123		%REC	246152	1	07/28/2017 22:14	AR
Surr: Toluene-d8	102	81.8-118		%REC	246152	1	07/28/2017 22:14	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1707L38-009

Client Sample ID: BDS-2
Collection Date: 7/25/2017
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
2-Butanone	BRL	50		ug/L	246152	1	07/28/2017 22:41	AR
2-Hexanone	BRL	10		ug/L	246152	1	07/28/2017 22:41	AR
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/28/2017 22:41	AR
Acetone	BRL	50		ug/L	246152	1	07/28/2017 22:41	AR
Benzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Bromoform	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Bromomethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Chloroethane	BRL	10		ug/L	246152	1	07/28/2017 22:41	AR
Chloroform	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Chloromethane	BRL	3.0		ug/L	246152	1	07/28/2017 22:41	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Cyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/28/2017 22:41	AR
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Freon-113	BRL	10		ug/L	246152	1	07/28/2017 22:41	AR
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Methyl acetate	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Methylene chloride	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
o-Xylene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-Aug-17

Client: American Environmental & Construction Services Inc
 Project Name: Silverstein
 Lab ID: 1707L38-009

Client Sample ID: BDS-2
 Collection Date: 7/25/2017
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Tetrachloroethene	130	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Toluene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Trichloroethene	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/28/2017 22:41	AR
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/28/2017 22:41	AR
Surr: 4-Bromofluorobenzene	73.8	66.1-129		%REC	246152	1	07/28/2017 22:41	AR
Surr: Dibromofluoromethane	112	83.6-123		%REC	246152	1	07/28/2017 22:41	AR
Surr: Toluene-d8	101	81.8-118		%REC	246152	1	07/28/2017 22:41	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-Aug-17

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Lab ID: 1707L38-010

Client Sample ID: TRIP BLANK
Collection Date: 7/26/2017
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,1-Dichloroethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,1-Dichloroethene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,2-Dibromoethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,2-Dichloroethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,2-Dichloropropane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
2-Butanone	BRL	50		ug/L	246152	1	07/27/2017 20:02	AR
2-Hexanone	BRL	10		ug/L	246152	1	07/27/2017 20:02	AR
4-Methyl-2-pentanone	BRL	10		ug/L	246152	1	07/27/2017 20:02	AR
Acetone	BRL	50		ug/L	246152	1	07/27/2017 20:02	AR
Benzene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Bromodichloromethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Bromoform	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Bromomethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Carbon disulfide	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Carbon tetrachloride	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Chlorobenzene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Chloroethane	BRL	10		ug/L	246152	1	07/27/2017 20:02	AR
Chloroform	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Chloromethane	BRL	3.0		ug/L	246152	1	07/27/2017 20:02	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Cyclohexane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Dibromochloromethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Dichlorodifluoromethane	BRL	10		ug/L	246152	1	07/27/2017 20:02	AR
Ethylbenzene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Freon-113	BRL	10		ug/L	246152	1	07/27/2017 20:02	AR
Isopropylbenzene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
m,p-Xylene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Methyl acetate	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Methylcyclohexane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Methylene chloride	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
o-Xylene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-Aug-17

Client:	American Environmental & Construction Services Inc	Client Sample ID:	TRIP BLANK
Project Name:	Silverstein	Collection Date:	7/26/2017
Lab ID:	1707L38-010	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Tetrachloroethene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Toluene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Trichloroethene	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Trichlorofluoromethane	BRL	5.0		ug/L	246152	1	07/27/2017 20:02	AR
Vinyl chloride	BRL	2.0		ug/L	246152	1	07/27/2017 20:02	AR
Surr: 4-Bromofluorobenzene	72.1	66.1-129		%REC	246152	1	07/27/2017 20:02	AR
Surr: Dibromofluoromethane	109	83.6-123		%REC	246152	1	07/27/2017 20:02	AR
Surr: Toluene-d8	102	81.8-118		%REC	246152	1	07/27/2017 20:02	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: EW-ER2 Lab ID: 1707L38-001 Collection Date: 7/24/2017 10:30:00 AM Matrix: Groundwater							
TCL VOLATILE ORGANICS SW8260B				(SW5030B)			
Tetrachloroethene	32		0.46	5.0	ug/L	246152	1
Client Sample ID: EW-KR Lab ID: 1707L38-008 Collection Date: 7/25/2017 12:40:00 PM Matrix: Groundwater							
TCL VOLATILE ORGANICS SW8260B				(SW5030B)			
Tetrachloroethene	130		0.46	5.0	ug/L	246152	1
Client Sample ID: BDS-2 Lab ID: 1707L38-009 Collection Date: 7/25/2017 Matrix: Groundwater							
TCL VOLATILE ORGANICS SW8260B				(SW5030B)			
Tetrachloroethene	130		0.46	5.0	ug/L	246152	1

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707L38

ANALYTICAL QC SUMMARY REPORT**BatchID: 246152**

Sample ID: MB-246152	Client ID:				Units: ug/L	Prep Date: 07/27/2017	Run No: 348494				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 246152	Analysis Date: 07/27/2017	Seq No: 7657378				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707L38

ANALYTICAL QC SUMMARY REPORT

BatchID: 246152

Sample ID: MB-246152	Client ID:					Units: ug/L	Prep Date: 07/27/2017		Run No: 348494		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 246152	Analysis Date: 07/27/2017		Seq No: 7657378		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	36.90	0	50.00		73.8	66.1	129				
Surr: Dibromofluoromethane	56.81	0	50.00		114	83.6	123				
Surr: Toluene-d8	52.31	0	50.00		105	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707L38

ANALYTICAL QC SUMMARY REPORT**BatchID: 246152**

Sample ID: LCS-246152	Client ID:				Units: ug/L	Prep Date: 07/27/2017	Run No: 348589				
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 246152	Analysis Date: 07/28/2017	Seq No: 7659922				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.44	5.0	50.00		123	68	139				
Benzene	56.02	5.0	50.00		112	74	125				
Chlorobenzene	61.26	5.0	50.00		123	75.7	123				
Toluene	52.47	5.0	50.00		105	75.9	126				
Trichloroethene	57.42	5.0	50.00		115	70.6	129				
Surr: 4-Bromofluorobenzene	47.04	0	50.00		94.1	66.1	129				
Surr: Dibromofluoromethane	52.47	0	50.00		105	83.6	123				
Surr: Toluene-d8	49.84	0	50.00		99.7	81.8	118				

Sample ID: 1707L38-001AMS	Client ID: EW-ER2	Units: ug/L			Prep Date: 07/27/2017	Run No: 348589					
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 246152			Analysis Date: 07/28/2017	Seq No: 7659425					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	69.33	5.0	50.00		139	64.3	149				
Benzene	53.83	5.0	50.00		108	71.6	132				
Chlorobenzene	58.01	5.0	50.00		116	73.1	126				
Toluene	50.29	5.0	50.00		101	72.5	135				
Trichloroethene	55.93	5.0	50.00		112	70.2	132				
Surr: 4-Bromofluorobenzene	37.51	0	50.00		75.0	66.1	129				
Surr: Dibromofluoromethane	53.56	0	50.00		107	83.6	123				
Surr: Toluene-d8	49.45	0	50.00		98.9	81.8	118				

Sample ID: 1707L38-001AMSD	Client ID: EW-ER2	Units: ug/L	Prep Date: 07/27/2017	Run No: 348589							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 246152	Analysis Date: 07/28/2017	Seq No: 7659426							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.75	5.0	50.00		120	64.3	149	69.33	14.8	30.8	
Benzene	52.08	5.0	50.00		104	71.6	132	53.83	3.30	20.7	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: American Environmental & Construction Services Inc
Project Name: Silverstein
Workorder: 1707L38

ANALYTICAL QC SUMMARY REPORT

BatchID: 246152

Sample ID: 1707L38-001AMSD	Client ID: EW-ER2	Units: ug/L	Prep Date: 07/27/2017	Run No: 348589							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 246152	Analysis Date: 07/28/2017	Seq No: 7659426							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	57.02	5.0	50.00		114	73.1	126	58.01	1.72	26.6	
Toluene	48.44	5.0	50.00		96.9	72.5	135	50.29	3.75	23.2	
Trichloroethene	53.66	5.0	50.00		107	70.2	132	55.93	4.14	27.7	
Surr: 4-Bromofluorobenzene	38.40	0	50.00		76.8	66.1	129	37.51	0	0	
Surr: Dibromofluoromethane	53.45	0	50.00		107	83.6	123	53.56	0	0	
Surr: Toluene-d8	49.98	0	50.00		100.0	81.8	118	49.45	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		