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Shannon Lloyd Remediation Project Manager Ashland LLC Environmental Health Safety & Regulatory Compliance DA-5 5200 Blazer Pkwy Dublin, OH 43017

Subject: Groundwater Sampling Results – February 2018 Ashland Tank 75, Tonawanda, New York NYSDEC Site #915008B

Dear Shannon,

AECOM Technical Services, Inc. (AECOM) is pleased to submit this letter report presenting the results of groundwater sampling conducted at the Ashland Tank 75 site (Tank 75 Site) from January 25 to February 2. 2018.

Site Description and Background

The Tank 75 site is located at 4625 River Road, Tonawanda, New York (Figure 1). Tank 75 is a former inground petroleum storage tank owned by Ashland Inc. (Ashland) located within the United Refining facility (Figure 1), and was constructed during World War II (WWII) for the storage of No. 6 fuel oil. Because steel was scarce during WWII, the tank was constructed as a gunite-lined in-ground product storage tank. The gunite liner is approximately 3 to 4 inches thick and is reinforced with steel mesh. The tank dimensions are approximately 200 feet wide by 300 feet long with side slopes of 1.5H:1V to a flat bottom approximately 26 feet below surrounding grade. The tank is situated in a Glacial Lacustrine Clay typically logged as clayey silt to silty clay soil deposit.

Ashland purchased the Tank 75 property in 1950. Tank 75 was used until 1980 when it was taken out of service. The refinery itself discontinued production in July 1982; however, the active tankage has remained in service. From 1980 to 1985, the only activity involving Tank 75 was to periodically pump out accumulated rainfall that accumulated in the tank. The rain water, or supernatant water, was pumped to the refinery's oily water sewer system with discharge to the Tonawanda publicly-owned treatment works. In 1985, approximately 120,000 barrels of floating No. 6 fuel oil was recovered from the tank and sent by barge to a re-processor in Louisiana. In 1990, a physical sampling program was undertaken to inventory and characterize the materials in the tank. The sampling program identified four specific phases/layers within the tank. From ground surface to the bottom of the tank, the four layers consisted of:

- A top oily layer from 10 to 30 inches in thickness (estimated at 550,000 gallons).
- A water layer varying from 9 to 18 feet in thickness (estimated at 4,289,000 gallons).

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- A pumpable sludge layer from 1 to 5 feet thick (estimated at 500,000+ gallons) consisting of water, oil, and solids.
- A bottom layer of non-pumpable sludge ranging in thickness from 2 to 3 feet (estimated at 4,000 cubic yards).

The top oily layer was removed by Ashland between 1992 and 1993.

The Tank 75 Site is listed on the New York State Registry of Inactive Hazardous Waste Disposal Sites as Site # 915008B, Class #03.

Six groundwater monitoring wells were installed at the site in 1986, and groundwater samples were collected annually from 1993 through 1998. Five of these wells (MW-2S, MW-2D, MW-3, MW-4S, and MW-4D) are located in the immediate vicinity of Tank 75 (Figure 2), and one well (MW-5) is located in the southeast portion of the refinery property. In 2005, AECOM (as URS) installed four additional shallow monitoring wells (MW-05-01, MW-05-02, MW-05-03, and MW-05-04) in the immediate vicinity of Tank 75. AECOM conducted one round of groundwater sampling of the nine wells located in the immediate vicinity of Tank 75 in 2005. Monitoring well construction details are summarized in Table 1 (attached).

Historically (i.e., 1993 to 2005), the following parameters have been detected at concentrations exceeding their respective New York State Department of Environmental Conservation (NYSDEC) groundwater standard as presented in the Division of Water Technical and Operational Guidance Series (1.1.1) (TOGS). No other parameters have been detected at concentrations above their NYSDEC groundwater standard. Historical analytical results are summarized in Tables 2 and 3 attached to this report.

Analyte	NYSDEC Groundwater Standard (ug/L)	Maximum Concentration (ug/L)
Iron	300	15,000
Lead	25	66
Cadmium	5	65
Manganese	300	880
Sodium	20,000	120,000
Methylene Chloride	5	5.3
Phenol	1	39
Pentachlorophenol	1	130

ug/L - micrograms per liter

2018 Field Activities

In December 2017, Ashland requested that AECOM collect groundwater samples from the nine existing monitoring wells located in the immediate vicinity of Tank 75. Since the wells had not been sampled since 2005, AECOM recommended performing redevelopment of the wells prior to sampling. The well redevelopment and sampling activities were performed in January and February 2018.

<u>Well Redevelopment</u> – From January 25 to January 29, AECOM redeveloped the nine existing monitoring wells located in the immediate vicinity of Tank 75. Prior to well development, AECOM gauged the wells using an oil-water interface probe to determine the depth to water and the possible presence of any light non-aqueous phase liquids (LNAPL). The presence of LNAPL was not detected or observed in any of the wells measured.

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Wells were purged using an inertial pump (e.g., Waterra pump) with high density polyethylene tubing equipped with a foot valve and surge block. While purging the wells, AECOM monitored water quality parameters of pH, temperature, conductivity, dissolved oxygen, oxidation-reduction potential, and turbidity. AECOM targeted removing a minimum of five well casing volumes during well redevelopment, however all wells pumped dry prior to reaching that volume. A record of well development activities and water quality parameters for each well is recorded on the well development logs included with this report as Attachment A.

Purge water was contained in five-gallon buckets and transferred to United States Department of Transportation (USDOT) approved 55-gallon steel drums. The drums were staged outside the fence surrounding Tank 75 pending characterization and proper disposal.

Groundwater Sampling - After a minimum of 72 hours following well redevelopment, AECOM collected groundwater samples from all nine wells. Sampling activities were performed between January 29 and February 2, 2018. Immediately prior to sampling, AECOM measured the depth to water and checked for the possible presence of LNAPL in each well using and oil-water interface probe. The presence of LNAPL was not detected or observed in any of the wells measured. The depth to water ranged from 2.48 feet below the top of riser (btor) to 28.19 feet btor. Water levels and calculated groundwater elevations are presented in Table 4. Groundwater elevations for each well are presented on Figure 3.

All but two wells were purged/sampled using low-flow procedures using a peristaltic pump. A section of low-density polyethylene (LDPE) tubing was lowered into the monitoring well until the tubing inlet was positioned mid-screen, and the LDPE tubing connected to the peristaltic pump. Groundwater was purged from the monitoring well at a rate of 85 to 175 milliliters per minute (ml/min) until the purge parameters had stabilized at which time the groundwater sample was immediately collected. Wells that went dry during purging, MW-02D and MW-04D, were purged to dryness and allowed to recover overnight and sampled using disposable bailers the following day. A record of well purging and sampling activities and water quality parameters for each well is recorded on the Low Flow Groundwater Purging/Sampling Logs included with this report as Attachment B.

Sampling purge water was contained in five-gallon buckets and transferred to DOT-approved 55-gallon steel drums. The drums were staged outside the fence surrounding Tank 75 pending characterization and proper disposal.

<u>Groundwater Sample Analyses</u> - Groundwater samples were analyzed by TestAmerica Laboratories located in Edison, NJ, for the following parameters:

- Target Compound List (TCL) Volatile Organic Compounds (VOC) by USEPA SW 846 Method 8260C
- TCL Semi-volatile Organic Compounds (SVOC) by USEPA Method 8270D
- Dissolved Target Analyte List (TAL) Metals by USEPA Methods 6010C/7470A

Samples collected for metals analyses were field filtered using disposable QuickFilter® 0.45 micron inline filters. Laboratory analytical results are summarized in Table 5.

Results

Metals – In 2018, the only metals with concentrations exceeding NYSDEC groundwater standards were iron, magnesium, manganese, and sodium. These metals were all detected at similar concentrations in 2005. Two metals detected at concentrations above the NYSDEC groundwater standards in 2005, cadmium and nickel, were not detected in samples collected in 2018. Lead, also detected in 2005, was



not detected in samples collected in 2018. A comparison of the ranges in metals concentrations between 2005 and 2018 is presented below:

Analyte	2005 Concentration Range (mg/L)	2018 Concentration Range (mg/L)
Cadmium	0.015 - 0.065	Non-detect < 0.0018
Iron	0.38 - 15.0	0.761 – 1.37
Lead	0.15 – 0.16	Non-detect <0.0041
Magnesium	2.9 - 210	7.49 - 175
Manganese	0.056 - 0.69	0.025 - 1.5
Nickel	0.120	0.0146 J
Sodium	48.0 – 120.0	25.9 – 85.7

<u>VOCs</u> – VOCs detected in groundwater samples collected in 2018 included 1,1-dichloroethane (1,1-DCA), cis-1,2-dichloroethene (cis-1,2-DCE), acetone, benzene, and vinyl chloride. A comparison of the ranges in VOCs concentrations between 2005 and 2018 is presented below:

Analyte	2005 Concentration Range (ug/L)	2018 Concentration Range (ug/L)
1,1-DCA	Non-detect	0.33 - 0.36
cis-1,2-DCE	4.1	0.48 – 1.7
Acetone	Non-detect	7
Carbon disulfide	2.2 – 2.7	Non-detect
Benzene	Non-detect	0.15 J
Vinyl chloride	Non-detect	0.26 J - 3.2

VOCs were detected in only three wells in 2018; MW-4S, MW-5-02, MW-5-04. All VOC detections were below NYSDEC groundwater standards with the exception of vinyl chloride which was detected above the 2 ug/L standard at a concentration of 3.2 ug/L in well MW-05-02. Vinyl chloride has not been detected in any of these wells in the past, however cis-1,2-DCE had been detected in well MW-05-02 historically at concentrations ranging from 1.7 to 4.1 ug/L. Vinyl chloride is a daughter product of the degradation of cis-1,2-DCE.

<u>SVOCs</u> – Only one SVOC, Di-n-butyl phthalate, was detected during the 2018 sampling event at a concentration of 1.0 J ug/L in the sample collected from well MW-4D. Di-n-butyl phthalate is a common laboratory contaminant.

Two SVOCs detected in 2005 groundwater samples, phenol and pentachlorophenol, were not detected in any samples collected from 2018.

Data Applicability Report

AECOM performed a limited data review and prepared a Data Applicability Report (DAR) included in this report as Attachment C. There were no data quality issues identified with the exception of SVOC analyses for groundwater samples from two wells (MW-5-01 and MW-5-03) and one duplicate sample (MW-5-01 duplicate) collected in the January-February 2018 event. The samples at these locations were received at the laboratory in exceedance of the SVOC method holding time of 7 days. Immediately upon receipt by the laboratory the samples were extracted and analyzed. The SVOC results for these samples have been

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qualified in the DAR as "UJ" due to the holding time exceedance. SVOCs were not detected above detection limits at these two wells in the 2018 event or the historical 2005 event. The DAR is attached as Appendix C.

Conclusions

- Metals detected during the 2018 sampling event at concentrations exceeding NYSDEC groundwater standards (iron, magnesium, manganese, and sodium) are all naturally occurring groundwater constituents, and concentrations detected in the site wells have not changed significantly since the 2005 sampling event.
- VOCs were detected at very low levels (generally around 1 ug/L or less) in only three site wells.
 Detected VOCs were three chlorinated solvents (1,1-DCA, cis-1,2-DCE, and vinyl chloride), benzene, and acetone. Of these, only benzene, detected at 0.15 ug/L in well MW-5-04, could be considered to be associated with typical refinery sludge wastes.
- The one SVOC detected during the 2018 event, Di-n-butyl phthalate (1.0 ug/L in MW-4D), is a common laboratory contaminant.

Based on the above, groundwater sample analytical results from January-February 2018 generally confirm historical data that indicate that petroleum refining wastes contained in Tank 75 are not impacting surrounding groundwater quality.

If you have any questions, please contact me at (716) 923-1164.

Sincerely,

AECOM Technical Services, Inc.

Colin Wasteneys, PG Sr. Project Manager

Figures

1 - Site Location

2 - Site Plan

3 - Groundwater Elevations

Tables

1 – Groundwater Monitoring Well Construction Details

2 - Groundwater Analytical Results, 1997 and 1998

3 - Groundwater Analytical Results, 2005

4 – Water Level Measurements, January 29, 2018

5 - Groundwater Analytical Results, January-February 2018

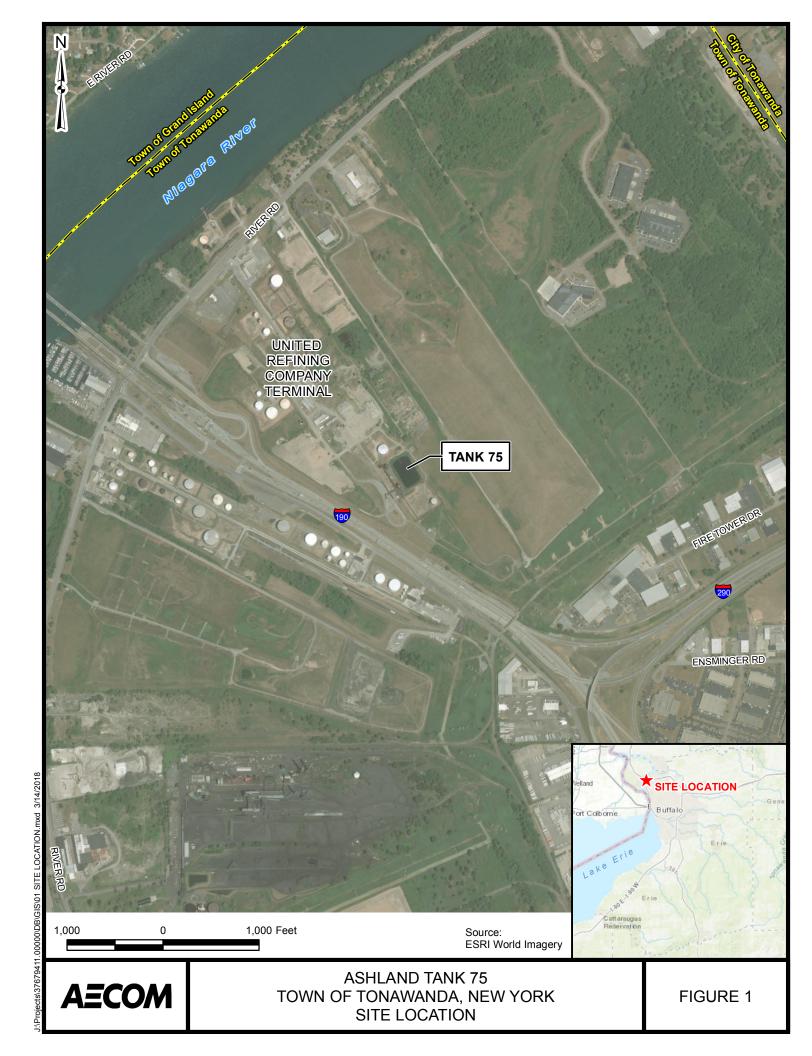
Attachments

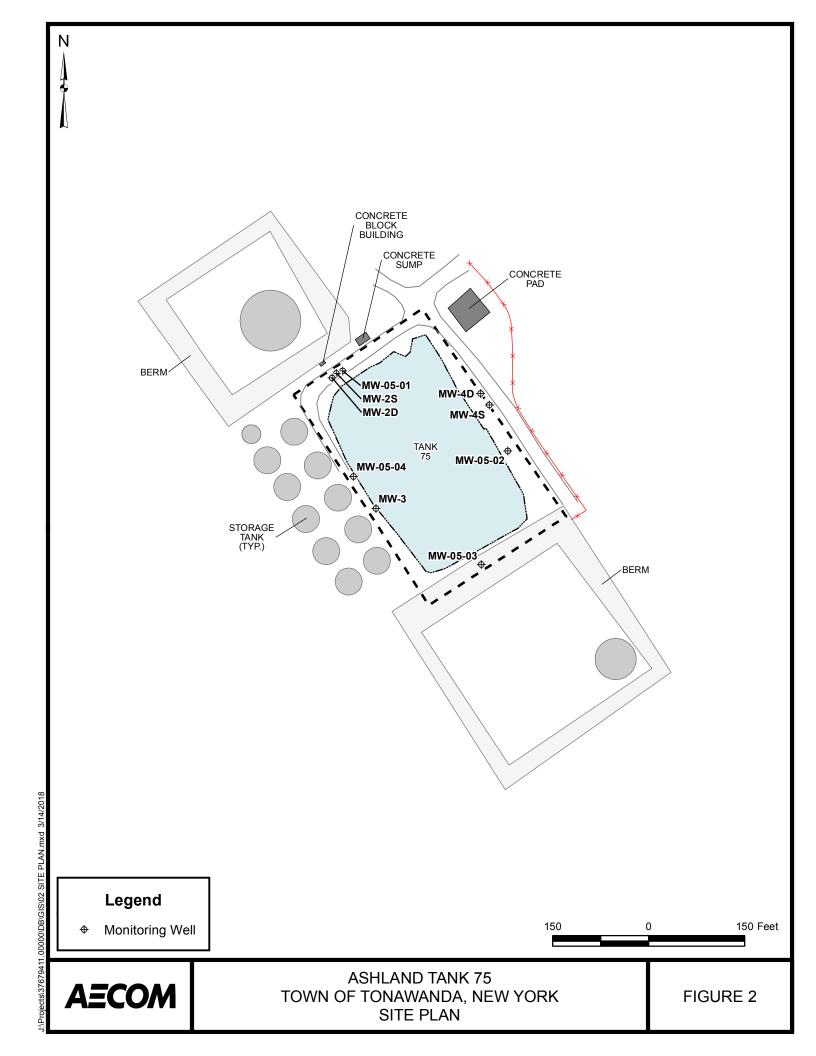
A – Well Development Logs

B - Low Flow Groundwater Well Purging/Sampling Logs

C – Data Applicability Report







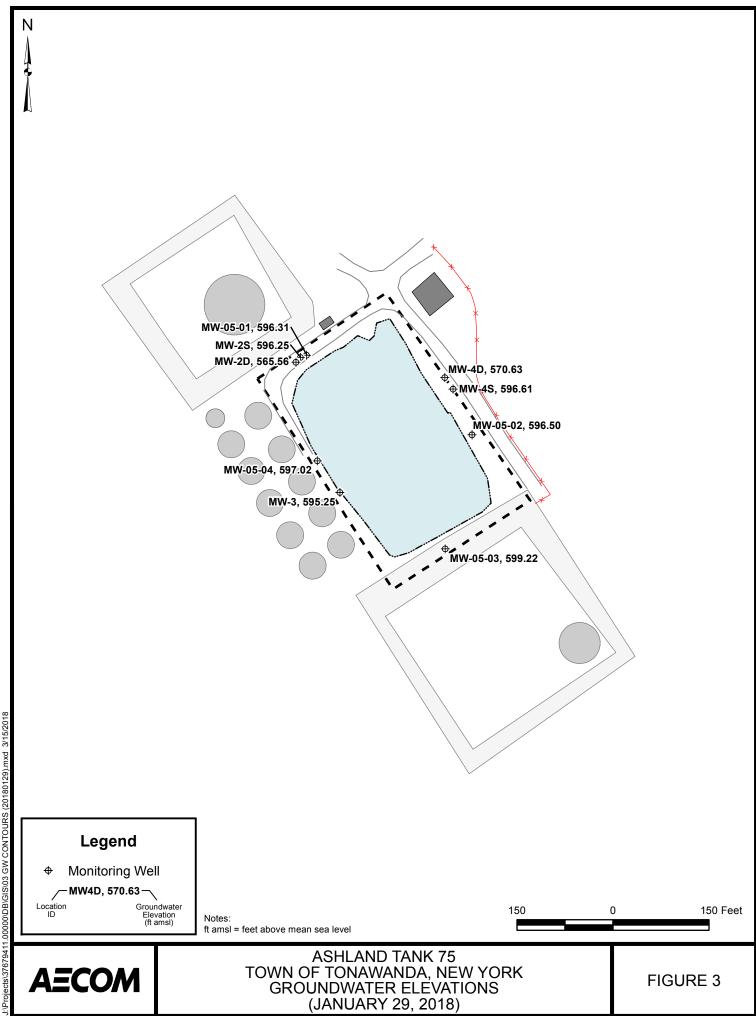




Table 1 GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS Ashland Tank 75 - Tonawanda, NY

Well Name	Well Installer	EDI Well Name	Date Installed	Top of Casing (amsl)	Ground Surface (amsl)	Top of Screen (ft)	Bottom of Screen (ft)	Well Depth (ft)
					, ,	` ,	` /	. ,
MW-2S	EDI	MW-2-86-S	9/17/1986	600.44	597.3	19.0	29.0	32.75
MW-2D	EDI	MW-2-86-D	9/17/1986	598.08	597.2	30.5	35.5	35.50
MW-3	EDI	MW-3-86	9/18/1986	599.2	596.9	17.5	27.5	29.90
MW-4S	EDI	MW-4-86	NL	600.01	599	14.0	24.0	25.60
MW-4D	EDI	NL	NL	598.82	598.1	29.0	34.0	NL
		MW-5-86, MW-1						
MW-5	EDI	upgradient	9/18/1986	604.98	603.05	17.0	27.0	29.00
MW-5-01	URS/EDI	NA	9/2/2005	600.32	597.5	2.8	22.8	22.8
MW-5-02	URS/EDI	NA	9/6/2005	600.83	598.1	3.0	23.0	24.3
MW-5-03	URS/EDI	NA	9/2/2005	606.98	604.1	3.0	28.0	29
MW-5-04	URS/EDI	NA	9/6/2005	599.5	596.5	3.0	23.0	23.5

EDI - Earth Dimensions, Inc.

ft - Feet

amsl - Above Mean Sea Level

NA - Not Applicable

NL - Not Located

URS - URS Corporation

TABLE 2 **GROUNDWATER ANALYTICAL RESULTS** 1997 AND 1998

Ashland Tank 75 - Tonawanda, NY

	Screening	MW	-2D	MV	MW-3 MW-2S			MW-4D		MW	-4S	MW	/-5
Analyte	Criteria ¹	08/19/97	07/17/98	08/19/97	07/17/98	08/19/97	07/17/98	08/19/97	07/17/98	08/19/97	07/17/98	08/19/97	07/17/98
Metals, USEPA			-	-	-	-	-	-	-	-	-	-	
Method 6020, mg/L													
Arsenic	0.025	0.011	<0.002	0.002	<0.002	<0.002	<0.002	0.008	0.007	<0.002	<0.002	< 0.002	<0.002
Barium	1.000	0.05	0.217	0.04	0.023	0.067	0.069	0.18	0.158	0.040	0.059	0.047	0.048
Beryllium	NV	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cadmium	0.005	0.017	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.006	< 0.003
Chromium	0.050	0.036	< 0.002	0.005	< 0.002	< 0.002	0.002	0.005	0.003	< 0.003	< 0.002	< 0.002	0.003
Cobalt	NV	0.014	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Copper	0.200	0.032	<0.002	0.006	0.002	0.003	<0.002	0.127	0.006	0.005	0.018	0.005	<0.002
Lead	0.025	0.030	< 0.003	0.003	< 0.003	< 0.003	< 0.003	0.006	0.005	< 0.003	0.005	< 0.003	< 0.003
Manganese	0.300	0.88	0.005	0.063	0.054	0.0056	0.059	0.064	0.044	0.025	0.056	0.016	0.017
Mercury	0.0007	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001	NA	<0.001
Nickel	0.100	0.065	0.006	0.009	0.006	0.005	0.004	< 0.003	0.008	0.007	0.007	0.007	0.004
Selenium	0.010	< 0.006	< 0.006	<0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
Silver	0.050	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Thallium	NV	< 0.002	< 0.002	< 0.002	< 0.002	<0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	NV	0.053	< 0.002	0.005	0.002	<0.002	< 0.002	0.005	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc	NV	0.012	0.005	< 0.06	0.108	<0.06	0.006	<0.06	0.029	< 0.06	0.042	< 0.06	0.011
VOCs, USEPA													
Method 8260, ug/L													
Methylene Chloride	5	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs, USEPA		•	-	•	-	-	-	-	-	•	•	•	
Method 8270. ua/L													
Sulfolane	NV	ND	ND	ND	ND	ND	ND	ND	ND	13.6/ND*	21.4	ND	ND

⁻ NYSDEC Groundwater Quality Standards for Class GA Groundwater, 6 NYCRR Part 703 amended August 1999
* - Sulfolane was detected in the original sample but not in the resample collected on 10/24/97.

Bold - Concentration exceeds screening criteria

ug/L - Microgram per Liter mg/L - Milligram per Liter

NA - Not Analyzed

<0.002 - analyte not detected above reporting limit shown

NV - No Value

SVOC - Semi-volatile Organic Compound VOC - Volatile Organic Compound

USEPA - United States Environmental Protection Agency

TABLE 3 **GROUNDWATER ANALYTICAL RESULTS SEPTEMBER 2005**

Ashland Tank 75 - Tonawanda, NY

	Screening								
Analyte	Criteria ¹	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5-01	MW-5-02	MW-5-04
· ·		09/13/05	09/13/05	09/13/05	09/13/05	09/13/05	09/13/05	09/13/05	09/13/05
TAL Metals, USEPA			•	•	•				
Method 6010B/7470A,									
mg/L									
Aluminum	NV	ND	2.500	12.000	ND	3.800	6.700	0.740	0.230
Antimony	0.003	ND							
Arsenic	0.025	ND							
Barium	1.000	0.047	0.190	0.086	0.052	0.120	0.076	0.029	0.019
Beryllium	NV	ND							
Cadmium	0.005	ND	0.065	ND	0.0095	0.015	ND	ND	ND
Calcium	NV	68.0	80.0	97.0	69.0	79.0	91.0	140.0	97.0
Chromium	0.050	ND	0.028	0.015	ND	ND	ND	ND	ND
Cobalt	NV	ND							
Copper	0.200	ND	0.025	ND	ND	0.034	ND	ND	ND
Iron	0.300	0.380	2.300	15.000	2.300	5.300	8.200	0.940	0.420
Lead	0.025	ND	ND	0.015	ND	0.016	ND	ND	ND
Magnesium	NV	140.0	2.9	170.0	150.0	61.0	140.0	170.0	210.0
Manganese	0.300	0.088	0.056	0.450	0.170	0.120	0.500	0.690	0.330
Nickel	0.100	ND	0.120	ND	ND	ND	ND	ND	ND
Potassium	NV	6.5	11.0	9.5	5.2	12.0	9.2	13.0	10.0
Selenium	0.010	ND							
Silver	0.050	ND							
Sodium	20.0	48.0	49.0	80.0	53.0	120.0	50.0	62.0	86.0
Thallium	NV	ND							
Vanadium	NV	ND	ND	0.020	ND	ND	0.012	ND	ND
Zinc	NV	ND	0.034	0.045	ND	0.070	0.032	ND	ND
VOCs, USEPA									
Method 8260B, ug/L									
Carbon disulfide	50	ND	ND	ND	ND	ND	2.2	2.9	2.7
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	4.1	ND
SVOCs, USEPA			•	•	•				
Method 8270C, ug/L									
Pentachlorophenol	1	ND	ND	ND	ND	130	ND	ND	ND
Phenol	1	ND	39	ND	ND	ND	ND	ND	ND

¹ - NYSDEC Groundwater Quality Standards for Class GA Groundwater, 6 NYCRR Part 703 amended August 1999 **Bold** - Concentration exceeds screening criteria

ug/L - Microgram per Liter mg/L - Milligram per Liter

ND - Not Detected

NV - No Value

SVOC - Semi-volatile Organic Compound TAL - Target Analyte List

VOC - Volatile Organic Compound

USEPA - United States Environmental Protection Agency

TABLE 4

WATER LEVEL MEASUREMENTS COLLECTED JANUARY 29, 2018

Ashland Tank 75 Tonawanda, NY

Monitoring Well Designation	Well Screen Interval (feet bgs)	Ground Surface Elevation (feet amsl)	Top of Riser Elevation (feet amsl)	Depth to Water (feet btor)	Groundwater Elevation (feet amsl)
MW-2S	19.0-29.0	597.3	600.44	4.19	596.25
MW-2D	30.5-35.5	597.2	598.08	32.52	565.56
MW-3	17.5-27.5	596.9	599.20	3.95	595.25
MW-4S	14.0-24.0	599.0	600.01	3.4	596.61
MW-4D	29.0-34.0	598.1	598.82	28.19	570.63
MW-5	17.0-27.0	603.1	604.98	NM	NM
MW-5-01	2.8-22.8	597.5	600.32	4.01	596.31
MW-5-02	3.0-23.0	598.1	600.83	4.33	596.50
MW-5-03	3.0-28.0	604.1	606.98	7.76	599.22
MW-5-04	3.0-28.0	596.5	599.50	2.48	597.02

Notes

feet bgs = feet below ground surface

feet amsl = feet above mean sea level

feet btor = feet below top of riser (measuring point)

NM = not measured

TABLE 5 GROUNDWATER ANALYTICAL RESULTS JANUARY-FEBRUARY 2018 Ashland Tank 75 - Tonawanda, NY

Analyte	Screening Criteria ¹	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5-01	MW-5-02	MW-5-03	MW-5-04	Duplicate
		1/31/2018	2/2/2018	1/31/2018	1/31/2018	2/1/2018	1/29/2018	1/31/2018	1/29/2018	2/1/2018	1/29/2018
TAL Metals (dissolved),											
USEPA Method											
6010B/7470A, mg/L											
Aluminum	NV	0.0911 U	0.106 J	0.0911 U							
Antimony	0.003	0.0074 U									
Arsenic	0.025	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0062 J	0.0044 U				
Barium	1	0.0633 J	0.11 J	0.0204 J	0.062 J	0.0178 J	0.104 J	0.0379 J	0.027 J	0.17 J	0.0997 J
Beryllium	NV	0.00097 U									
Cadmium	0.005	0.0018 U									
Calcium	NV	77.4	50.8	72.2	80.1	20.3	90.7	85.2	405	170	86.9
Chromium	0.05	0.0033 U									
Cobalt	NV	0.0031 U	0.0035 J	0.0031 U							
Copper	0.2	0.0081 U	0.0084 J	0.0081 U	0.0081 U						
Iron	0.3	0.0921 U	0.0921 U	0.0921 U	1.37	0.0921 U	0.0921 U	0.0921 U	0.0921 U	0.761	0.0921 U
Lead	0.025	0.0041 U									
Magnesium	35	156	7.49	175	172	61.2	130	162	42.7	52.5	124
Manganese	0.3	0.0031 U	0.0031 U	0.0253	0.0978	0.0031 U	0.0957	0.0898	0.0324	1.5	0.0911
Nickel	0.1	0.009 U	0.0146 J	0.009 U							
Potassium	NV	3.97 J	4.86 J	4.56 J	4.91 J	6.16	3.94 J	4.47 J	4.93 J	2.64 J	3.84 J
Selenium	0.01	0.0044 U									
Silver	0.05	0.0018 U									
Sodium	20	48.1	68.2	91.8	55.8	85.7	44.5	58.4	42.8	25.9	42.9
Thallium	NV	0.0071 U									
Vanadium	NV	0.0025 U	0.0045 J	0.0025 U	0.0025 U	0.0025 U	0.0053 J	0.0046 J	0.0177 J	0.0025 U	0.0053 J
Zinc	NV	0.009 U									
VOCs, USEPA		•	•		•			•		•	
Method 8260B, ug/L											
Acetone	50	1.1 U	7	1.1 U							
Benzene	0.7	0.09 U	0.15 J	0.09 U							
1.1-Dichloroethane	5	0.24 U	0.24 U	0.24 U	0.33 J	0.24 U	0.24 U	0.36 J	0.24 U	0.24 U	0.24 U
cis-1,2-Dichloroethene	5	0.26 U	0.26 U	0.26 U	0.48 J	0.26 U	0.26 U	1.7	0.26 U	0.26 U	0.26 U
Vinyl chloride	2	0.06 U	0.06 U	0.06 U	0.26 J	0.06 U	0.06 U	3.2	0.06 U	0.06 U	0.06 U
SVOCs, USEPA		0.00	3.33 0	0.00	0.200		0.00	¥	0.00 0	5.55 0	
Method 8270C, ug/L											
Di-n-butyl phthalate	50	0.82 U	0.82 U	0.82 U	0.82 U	1.0 J	0.87 UH	0.82 U	0.82 UH	0.82 U	0.89 UH
1 NVCDEC County durates Quality						1.∪ J	0.07 011	0.02 0	0.02 011	0.02 0	0.00 UH

¹ - NYSDEC Groundwater Quality Standards for Class GA Groundwater, 6 NYCRR Part 703 amended August 1999

Bold - Concentration exceeds screening criteria

ug/L - Microgram per Liter

mg/L - Milligram per Liter

NV - No Value

SVOC - Semi-volatile Organic Compound

TAL - Target Analyte List

VOC - Volatile Organic Compound

USEPA - United States Environmental Protection Agency

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U - analyte not detected above reporting limit shown

H - Sample was prepped or analyzed beyond the specified holding time

ATTACHMENT A

WELL DEVELOPMENT LOGS

PROJECT TITLE:	Ashland Tank 75 WELL NO.: MW-2S (Page 1)										
PROJECT NO.: 60562492											
STAFF: Sean P. Connelly											
DATE(S): 1/26/18 at 15:30											
1. TOTAL CASING AND SCREEN LENGTH (FT.) = 33.1 WELL ID. VOL. (GAL/FT) 0.04											
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	4.	.5		2"	0.17	
3. NUMBER OF FEET STA	NDING WA	ATER (#1	- #2)		=	28	3.6		3"	0.38	
4. VOLUME OF WATER/FO	OT OF C	ASING (G/	4L.)		=	0.0	66		4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 :	x #4)		=	18	3.9		5"	1.04	
6. VOLUME OF WATER TO) REMOVE	(GAL.)(#	5 x)	=	94	1.4		6"	1.50		
7. VOLUME OF WATER AC	TUALLY F	REMOVED) (GAL.)		=	4	1		8"	2.60	
OR V=0.0408 x (CASING DIAMETER) ²											
				ACC	CUMULATI	ED VOLUM	ME PURGI	ED (GALLO	ONS)		
PARAMETERS	Initial	2	4	6	8	10	12	14	16	18	20
рН	8.5	8.2	8.0	8.0	8.0	7.7	7.8	7.86	7.8	7.7	7.68
Temperature (°C)	9.75	9.46	9.31	9.1	9.1	10.4	10.5	10.7	10.9	10.6	10.62
Conductivity (mS/cm)	1.13	1.16	1.18	1.2	1.21	1.27	1.27	1.23	1.25	1.28	1.3
DO (mg/L)	9.44	6.35	7.03	4.78	3.84	2.96	2.93	2.92	2.95	2.8	3.46
ORP (mV)	97	99	1.02	103	101	63	17	-10	-25	-35	-43
Turbidity (NTU)	32.3	27.3	23.6	20.3	24.2	36.5	32.2	57.1	73.4	77.3	77
COMMENTS: Took water	levels fro	m top of	inner cas	ing.							

PROJECT NO.: 60562492 STAFF: Sean P. Connelly DATE(S): 1/26/18 at 15:30 WELL ID. VOL. (GAL/FT)											
DATE(S): 1/26/18 at 15:30 WELL ID. VOL. (GAL/FT) 1. TOTAL CASING AND SCREEN LENGTH (FT.) = 33.1 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 4.5 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 28.6 3" 0.38 4. VOLUME OF WATER/FOOT OF CASING (GAL.) = 0.66 4" 0.66 5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 18.9 5" 1.04											
1. TOTAL CASING AND SCREEN LENGTH (FT.) = 33.1 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 4.5 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 28.6 3" 0.38 4. VOLUME OF WATER/FOOT OF CASING (GAL.) = 0.66 4" 0.66 5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 18.9 5" 1.04											
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4. VOLUME OF WATER/FOOT OF CASING (GAL.) = 0.66 4" 0.66 5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 18.9 5" 1.04											
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 18.9 5" 1.04											
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x) = 94.4 6" 1.50											
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 41 8" 2.60											
OR V=0.0408 x (CASING DIAMETER) ²											
ACCUMULATED VOLUME PURGED (GALLONS)											
PARAMETERS 22 24 26 28 30 32 34 36 38 40 42											
pH 7.6 7.6 7.7 7.7 7.7 7.8 7.72 7.9 7.99											
Temperature (°C) 10.74 10.71 10.91 11.0 11.1 11.0 11.1 10.5 10.24											
Conductivity (mS/cm) 1.32 1.35 1.34 1.32 1.31 1.3 1.28 1.28 1.28 1.3											
DO (mg/L) 3.36 3.44 3.98 3.75 3.83 3.69 3.52 3.37 7.29 8.55											
ORP (mV) -46 -48 -50 -55 -59 -64 -70 -76 -78 -70											
Turbidity (NTU) 64.7 46.4 30.5 28.3 31.7 22 20.3 33.1 45.1 25.3											
COMMENTS: Dry at 17:03 with about 41 gallons purged.											

PROJECT TITLE:	Ashland Tank 75 WELL NO.: MW-2D							MW-2D			
PROJECT NO.: 60562492											
STAFF: Sean P. Connelly											
DATE(S): 1/29/18 at 10:09	5										
1. TOTAL CASING AND SO	CREEN LE	NGTH (FT	Г.)	_	=	35	5.8	WE	ELL ID. 1"	VOL. (GAL/FT) 0.04	
2. WATER LEVEL BELOW	TOP OF C	CASING (F	·T.)		=	9	.0	=	2"	0.17	
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	26	6.9	_	3"	0.38	
4. VOLUME OF WATER/FO	OOT OF C	ASING (G.	AL.)		=	0.	66	_	4"	0.66	
5. VOLUME OF WATER IN	CASING ((GAL.)(#3	x #4)		=	17	7.7	_	5"	1.04	
6. VOLUME OF WATER TO	O REMOVE	Ξ (GAL.)(#	5 x)		=	88	3.6	_	6" 1.50		
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 17 8" 2.60											
								V=0.04	- 08 x (CAS	OR SING DIAMETER) ²	
	Τ								2.10,		
PARAMETERS	15			ACC	JUMULATI	ED VOLUI	ME PURG	SED (GALLO	JNS)		
TAIVWILLERS	'`				<u> </u>					+	
рН	10.8										
Temperature (°C)	12.55										
Conductivity (mS/cm)	0.527										
DO (mg/L)	4.61										
ORP (mV)	64		 	 	 						
Turbidity (NTU) COMMENTS: Horiba was r	253	ning. Die	n't get ar	v parame	eters until	Pine Fny	vironment	al showed	up with	replacement Horiba	Start tim
at 11:10. At 11:15 the wate		-	-						-		
13.50' BTR. 4 gallons rem											
tubing another 4.0' down w	_						_				
lowered tubing further dow											
bottom of the well. 14 gallo sludge from bottom of the v		eu at 11.	อาสเอา	DIK. 12.	.09, well v	vent dry.	new boll	10111 at 36. 1	DIKU	de to the removal of	Siit and

PROJECT TITLE:		Ash	land Tan	k 75		WELL NO.:			MW-3		
PROJECT NO.: 60562492											
STAFF: Sean P. Connelly											
DATE(S): 1/26/2018											
1. TOTAL CASING AND SCREEN LENGTH (FT.) = 33.2 WELL ID. VOL. (GAL/FT) 0.04											
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		= .	3	.7	2"	0.17		
3. NUMBER OF FEET STAI	- #2)		= .	29	9.6	3"	0.38				
4. VOLUME OF WATER/FC	OT OF CA	ASING (G	AL.)		= .	0.	66	4"	0.66		
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		= .	19	9.5	5"	1.04		
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#	5 x)		= .	97	7.5	6"	1.50		
7. VOLUME OF WATER AC	TUALLY F	REMOVE) (GAL.)		= .	1	3	8"	2.60		
V=0.0408 x (CASING DIAMETER) ²											
				ACC	UMULATE	ED VOLUI	ME PURGE	D (GALLONS)			
PARAMETERS	Initial	4	6	8	10	12					
рН	7.8	7.6	7.8	7.9	7.9	7.9					
Temperature (°C)	11.05	6.59	11.19	11.5	11.6	11.0					
Temperature (C)	11.05	0.53	11.13	11.5	11.0	11.0					
Conductivity (mS/cm)	1.62	1.64	1.69	1.69	1.71	1.52					
DO (mg/L)	16.1	7.52	14.09	10.41	14.63	8.11					
ORP (mV)	119	222	196	179	173	146					
Turbidity (NTU)	Max	554	669	Max	Max	Max					
COMMENTS: Well went of	dry at 11:1	I1 with at	oout 13 ga	allons pur	ged.						

PROJECT TITLE:		Ash	land Tan	k 75			WELL NO.:		MW-4S	
PROJECT NO.: <u>60562492</u>										
STAFF: Sean P. Connelly										
DATE(S): 1/26/18 at 12:45	5									
1. TOTAL CASING AND SO	REEN LE	NGTH (FT	·.)		=	26	6.0	WELL ID. 1"	VOL. (GAL/FT) 0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	3	.8	2"	0.17	
3. NUMBER OF FEET STAI	NDING WA	ATER (#1	- #2)		=	22	2.2	3"	0.38	
4. VOLUME OF WATER/FO	OOT OF CA	ASING (G	AL.)		=	0.	66	4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	14	4.6	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#	5 x)		=	73	3.2	6"	1.50	
7. VOLUME OF WATER AC	TUALLY F	REMOVED	(GAL.)		=	1	12	8"	2.60 OR	
								V=0.0408 x (CA	SING DIAMETER) ²	
				ACC	UMULAT	ED VOLUI	ME PURGE	D (GALLONS)	T	I
PARAMETERS	Initial	2	4	6	8	10				
рН	8.0	7.6	7.7	7.8	7.8	7.8				
Temperature (°C)	10.38	14.21	12.56	12.3	11.8	11.5				
Conductivity (mS/cm)	1.38	1.35	1.4	1.42	1.43	1.43				
DO (mg/L)	4.19	2.98	2.34	2.72	2.48	3.61				
ORP (mV)	-142	-29	-28	-65	-74	-79				
Turbidity (NTU)	Max	9.3	7.3	11.5	9	11.4				
COMMENTS: Odor at sta	art of rede	velopmer	nt along w	ith very th	nick black	silt/sludg	ge. Well we	ent dry at 13:57 w	vith about 11 gallons	s purged.

PROJECT TITLE:		Ash	nland Tan	k 75			WELL NO).:		MW-4D	
PROJECT NO.: 60562492											
STAFF: Sean P. Connelly											
DATE(S): 1/26/18 at 12:00	1										
TOTAL CASING AND SC	REEN LE	NGTH (FT	- .)		=	33	3.9		LL ID. 1"	VOL. (GAL/FT) 0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	6	.9		2"	0.17	
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	27	7.0		3"	0.38	
4. VOLUME OF WATER/FO	OOT OF C	ASING (G	AL.)		=	0.	66		4"	0.66	
5. VOLUME OF WATER IN	CASING ((GAL.)(#3	x #4)		=	17	7.8		5"	1.04	
6. VOLUME OF WATER TO	REMOVE	E (GAL.)(#	5 x)		=	89	9.0		6"	1.50	
7. VOLUME OF WATER AC	CTUALLY I	REMOVE	O (GAL.)		=	1	1		8"	2.60 OR	
								V=0.040)8 x (CAS	OR SING DIAMETER) ²	
		1	I	ACC		ED VOLUI	ME PURG	ED (GALLC	NS)		
PARAMETERS	Initial	2	4	6	8	10	12	14			
рН	10.7	11.4	11.5	11.3	11.3	11.3	11.4	11.27			
Temperature (°C)	12.25	11.92	11.76	11.7	11.6	11.6	11.4	11.3			
Conductivity (mS/cm)	0.51	0.504	0.499	0.481	0.474	0.47	0.492	0.47			
DO (mg/L)	4.71	4.9	4.96	5.97	6.12	5.71	6.1	7.08			
ORP (mV)	-1	-18	-29	-29	-30	-31	-28	-27			
Turbidity (NTU)	29.8	40	46.4	63.6	63.5	67.5	345	265			
	nt dry at 1										

PROJECT TITLE:		Ash	nland Tan	k 75			WELL NO).:	N	MW-5-01	
PROJECT NO.: 60562492											
STAFF: Sean P. Connelly											
DATE(S): 1/25/18 at 9:10											
TOTAL CASING AND SO	REEN LE	NGTH (FT	- .)		=	26	S.1	WE	ELL ID. 1"	VOL. (GAL/FT) 0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	4	.1		2"	0.17	
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	22	2.0		3"	0.38	
4. VOLUME OF WATER/FO	OOT OF C	ASING (G	AL.)		=	0.	17		4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	3	.7		5"	1.04	
6. VOLUME OF WATER TO	REMOVE	€ (GAL.)(#	5 x)		=	18	3.7		6"	1.50	
7. VOLUME OF WATER AC	CTUALLY I	REMOVE	O (GAL.)		=	17	7.5		8"	2.60 OR	
								V=0.04	08 x (CASI	NG DIAMETER) ²	
		T	ī	ACC	CUMULATI	ED VOLU	ME PURG	ED (GALLO	ONS)		
PARAMETERS	Initial	1	2	4	6	8	10	12	14	16	
рН	7.4	7.4	7.4	7.4	7.4	7.4	7.5	7.42	7.4	7.51	
Temperature (°C)	1.37	3.57	6.42	5.9	9.7	10.5	9.2	10.5	9.9	10.21	
Conductivity (mS/cm)	1.03	0.978	0.966	1.1	1.05	1.07	1.17	1.13	1.14	1.17	<u> </u>
DO (mg/L)	12.63	17.14	2.36	8.22	14.37	1.15	14.46	12.23	23.59	14.89	
ORP (mV)	110	-58	-58	-43	-40	-42	-28	-27	-21	-1	
Turbidity (NTU)	296	Max	Max	Max	Max	Max	Max	Max	Max	Max	
COMMENTS: Well wer	nt dry at 1	2:31 with	about 17.	.5 gallons	purged.						

PROJECT TITLE: Ashland Tank 75 WELL NO.: MW-5-02										
PROJECT NO.: 60562492										
STAFF: Sean P. Connelly										
DATE(S): 1/26/18 at 12:00										
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	.)		=	26	6.2	WELL ID. 1"	VOL. (GAL/FT) 0.04	
2. WATER LEVEL BELOW	TOP OF C	CASING (F	T.)		=	4	.0	2"	0.17	
3. NUMBER OF FEET STAI	NDING W	ATER (#1	- #2)		=	22	2.2	3"	0.38	
4. VOLUME OF WATER/FC	OT OF C	ASING (GA	AL.)		=	0.	17	4"	0.66	
5. VOLUME OF WATER IN	CASING ((GAL.)(#3	x #4)		=	3	.8	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	E (GAL.)(#	5 x)		=	18	3.9	6"	1.50	
7. VOLUME OF WATER AC	TUALLY I	REMOVED	(GAL.)		=	1	1	8"	2.60	
								V=0.0408 x (CAS	OR SING DIAMETER) ²	
				ACC	UMULAT	ED VOLUI	ME PURGE	D (GALLONS)		
PARAMETERS	Initial	2	4	6	8	10				
рН	7.6	7.7	7.6	7.4	7.5	7.5				
- 40		0.50	0.17	44.0	44.0	40.5				
Temperature (°C)	8.21	8.53	9.47	11.0	11.9	12.5				
Conductivity (mS/cm)	1.27	1.2	1.23	1.28	1.28	1.31				
DO (mg/L)	5.79	13.27	8.84	8.14	11.9	7.51				
ORP (mV)	68	70	88	55	-6	-11				
Turbidity (NTU)	Max	Max	Max	Max	Max	Max				
		2:26 with					I	l .	-1	

PROJECT TITLE:		Ash	nland Tan	k 75			WELL NO).:		MW-5-03	
PROJECT NO.: 60562492											
STAFF: Sean P. Connelly											
DATE(S): 1/25/2018											
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	- .)		=	31	.2		LL ID. 1"	VOL. (GAL/FT) 0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	7	.3		2"	0.17	
3. NUMBER OF FEET STAI	NDING WA	ATER (#1	- #2)		=	23	3.8		3"	0.38	
4. VOLUME OF WATER/FC	OT OF C	ASING (G	AL.)		=	0.	17		4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	4	.1		5"	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#	5 x)		=	20).3		6"	1.50	
7. VOLUME OF WATER AC	TUALLY F	REMOVE	O (GAL.)		=	1	6		8"	2.60	
								V=0.040	08 x (CAS	OR SING DIAMETER) ²	
			ı					ED (GALLC	NS)		
PARAMETERS	Initial	2	4	6	8	10	12	14			
рН	8.1	7.7	7.5	7.2	7.3	7.2	7.3	7.3			
Temperature (°C)	3.87	5.59	3.81	7.6	7.7	8.8	9.3	10.1			
Conductivity (mS/cm)	1.93	1.84	1.95	1.96	1.98	1.98	1.95	1.99			
DO (mg/L)	9.79	6.64	16.52	16.13	3.83	2.68	3.41	2.18			
ORP (mV)	95	103	118	128	96	52	50	10			
Turbidity (NTU)	Max	Max	Max	Max	Max	Max	Max	Max			
COMMENTS: Well wen	it dry at 1	4:42 with	about 16	gallons p	urged.						

PROJECT TITLE: Ashland Tank 75 WELL NO.: MW-5-04										
PROJECT NO.: 60562492										
STAFF: Sean P. Connelly										
DATE(S): 1/29/2018										
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	·.)		=	26	5.8	WELL ID. 1"	VOL. (GAL/FT) 0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	2	.6	2"	0.17	
3. NUMBER OF FEET STAI	NDING WA	ATER (#1	- #2)		=	24	l.1	3"	0.38	
4. VOLUME OF WATER/FC	OT OF C	ASING (G	AL.)		=	0.	17	4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	4	.1	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#	5 x)		=	20).5	6"	1.50	
7. VOLUME OF WATER AC	TUALLY F	REMOVE	O (GAL.)		=	1	3	8"	2.60 OR	
								V=0.0408 x (CA	OR SING DIAMETER) ²	
								ED (GALLONS)		
PARAMETERS	Initial	2	4	6	8	10	12			
рН	7.6	7.0	7.0	7.1	7.1	7.2	7.2			
Temperature (°C)	5.8	6.83	8.27	10.3	11.5	11.8	11.7			
	0.0	0.00	0.2.	10.0						
Conductivity (mS/cm)	1.57	1.47	1.58	1.6	1.66	1.65	1.66			
DO (mg/L)	11.66	11.1	2.8	9.63	3.65	5.73	5.2			
ORP (mV)	-40	-40	-31	-29	-33	-1	12			
Turbidity (NTU)	Max	Max	Max	Max	Max	Max	Max			
COMMENTS: Well wen	t dry at 1	3:36 with	about 13	gallons p	urged.					

ATTACHMENT B

LOW FLOW GROUNDWATER WELL PURGING/SAMPLING LOGS

Project:	Ashland Tank 75			Site:	4545 River F	Rd, Tonawanda	a Well#:	MW-2	2S
Sampling	Personnel:	Sean	P. Connelly, En	nily Au	Date:	1/31/18	Company:	AECO	OM
Purging/ Sampling Device:	Low Flow P	eristaltic Pum	p (GeoPump 2)	Tubing Type:	LDPE,	Silicone	Tubing Inlet:	Midpoint o	f Screen
Measuring Point:	Below Top of Riser	Initial Depth to Water:	4.19	Depth to Well Bottom:	33.07	Well Diameter:	4.0"	Screen Length:	10.0'
Casing Type:	P۷	/C		Volume Coefficient:	2.47	Volume in 1 Well Casing (liters):	71.3	Estimated Purge Volume (liters):	6
Sample ID:	MW-2S		Sample Time:	9::	25	QA/QC:			
Sample Par	ameters:				VOCs, SVOC	Cs, Metals			
	-								

PURGE PARAMETERS

TIME	pН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (ft btor)
8:50	7.07	7.39	1.22	7.46	10.9	270.0	150	4.43
8:55	7.36	6.62	1.24	6.94	0.8	391.0	150	4.60
9:00	7.35	6.27	1.25	6.77	0.0	462.0	150	7.75
9:05	7.33	6.23	1.27	6.70	0.0	499.0	150	4.90
9:10	7.32	6.03	1.28	6.65	0.0	510.0	150	5.10
9:15	7.30	5.85	1.29	6.60	0.0	520.0	150	5.33
9:20	7.27	5.77	1.30	6.72	0.0	525.0	150	5.33
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Project:		Ashland Tank	75	_ Site:	4545 Rive	r Rd, Tonawanda	a Well #:	MW-2	<u>:</u> D
Sampling	Personnel:	Sean	P. Connelly, Er	mily Au	Date:	2/2/18	Company:	AECO	M
Purging/ Sampling Device:		Bailer		Tubing Type:		NA	Tubing Inlet:	NA	
Measuring Point:	Below Top o	f Initial Depth to Water:	32.52	Depth to Well Bottom:	35.8	Well Diameter:	4.0"	Screen Length:	5.0'
Casing Type:	P	VC		Volume Coefficient:	2.47	Volume in 1 Well Casing (liters):	8.1	Estimated Purge Volume (liters):	6
Sample ID:			Sample Time:			QA/QC:			
Sample Par	ameters:				VOCs, SVC	DCs, Metals			
		Bailed well dr	y on 2/1/18. To	ook a grab sam	ple well on	2/2/18.			
				1					

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (ft btor)
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Project:	Ashland Tank 75			Site:	4545 River I	Rd, Tonawanda	a Well#:	MW-	-3
Sampling	Personnel:	Sean	P. Connelly, En	nily Au	Date:	1/31/18	Company:	AECO	OM
Purging/ Sampling Device:	Low Flow P	eristaltic Pum	p (GeoPump 2)	Tubing Type:	LDPE	, Silicone	Tubing Inlet:	Midpoint o	f Screen
Measuring Point:	Below Top of Riser	Initial Depth to Water:	3.95	Depth to Well Bottom:	33.2	Well _ Diameter:	4.0"	Screen Length:	10.0'
Casing Type:	P۷	/C		Volume Coefficient:	2.47	Volume in 1 Well Casing (liters):	72.2	Estimated Purge Volume (liters):	8
Sample ID:	MW-3		Sample Time:	10	:40	QA/QC:			
Sample Par	ameters:				VOCs, SVO	Cs, Metals			
	-	=							

PURGE PARAMETERS

		TEMP (00)	COND.	DISS. O ₂	TURB.		FLOW RATE	DEPTH TO WATER
TIME	рН	TEMP (°C)	(mS/cm)	(mg/l)	(NTU)	Eh (mV)	(ml/min.)	(ft btor)
10:10	7.48	4.75	1.59	6.59	0.0	305.0	150	4.25
10:15	7.51	5.54	1.56	6.19	0.0	304.0	175	4.40
10:20	7.47	6.12	1.56	6.23	0.0	303.0	175	4.70
10:25	7.45	6.32	1.56	6.48	0.0	301.0	175	5.00
10:30	7.44	6.52	1.56	6.57	0.0	299.0	175	5.30
10:35	7.43	6.58	1.55	6.45	0.0	298.0	175	5.60
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Project:		Ashland Tank	75	Site:	4545 River F	Rd, Tonawanda	a Well#:	MW-4S	
Sampling	Personnel:	Sean	P. Connelly, En	nily Au	Date:	1/31/18	Company:	AECO	OM
Purging/ Sampling Device:	Low Flow P	eristaltic Pum	p (GeoPump 2)	Tubing Type:	LDPE,	Silicone	Tubing Inlet:	Midpoint o	f Screen
Measuring Point:	Below Top of Riser	Initial Depth to Water:	3.4	Depth to Well Bottom:	26.03	Well Diameter:	4.0"	Screen Length:	10.0'
Casing Type:	PV	/C		Volume Coefficient:	2.47	Volume in 1 Well Casing (liters):	55.9	Estimated Purge Volume (liters):	12
Sample ID:	MW-4S		Sample Time:	13:	:52	QA/QC:			
Sample Par	ameters:				VOCs, SVOC	Cs, Metals			
	-								

PURGE PARAMETERS

		TEMP (00)	COND.	DISS. O ₂	TURB.		FLOW RATE	DEPTH TO WATER
TIME	рН	TEMP (°C)	(mS/cm)	(mg/l)	(NTU)	Eh (mV)	(ml/min.)	(ft btor)
12:37	7.34	6.41	1.44	4.38	6.5	-120.00	250	3.55
12:42	7.35	6.51	1.43	10.63	0.0	-135.00	150	3.87
12:47	7.40	6.31	1.43	9.51	0.0	-139.00	150	4.10
12:52	7.37	6.53	1.43	8.90	0.0	-140.00	150	4.30
12:57	7.37	6.66	1.43	8.25	0.0	-140.00	150	4.60
13:02	7.36	6.88	1.47	7.74	0.0	-137.00	150	4.85
13:07	7.36	7.03	1.47	7.17	0.0	-136.00	150	5.07
13:12	7.35	6.97	1.46	6.60	0.0	-132.00	150	5.37
13:17	7.34	7.07	1.46	6.15	0.0	-130.00	150	5.61
13:22	7.34	7.10	1.46	5.71	0	-126.00	150	5.85
13:27	7.34	7.14	1.45	5.3	0	-124.00	150	6.1
13:32	7.35	7.18	1.45	4.98	0	-122.00	150	6.35
13:37	7.37	7.23	1.45	4.64	0	-120.00	150	6.6
13:42	7.37	7.27	1.45	4.28	0	-116.00	150	6.85
13:47	7.37	7.42	1.45	4	0	-111.00	150	7.11
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Project:		Ashland Tank	75	Site:	4545 River F	Rd, Tonawanda	well #:	MW-4	1D
Sampling	Personnel:	Sean	P. Connelly, En	mily Au Date: 2/1/18			Company:	AECC	DM
Purging/ Sampling Device:	Low Flow F	Peristaltic Pum	p (GeoPump 2)	Tubing Type:	LDPE,	Silicone	Tubing Inlet:	Midpoint of	f Screen
Measuring Point:	Below Top of Riser	f Initial Depth to Water:	28.19	Depth to Well Bottom:	33.85	Well Diameter:	4.0"	Screen Length:	5.0'
Casing Type:	P	VC		Volume Coefficient:	2.47	Volume in 1 Well Casing (liters):	14.0	Estimated Purge Volume (liters):	4.5
Sample ID:	MW-4D		Sample Time:	10	:45	_ QA/QC:			
Sample Par	rameters:				VOCs, SVOC	s, Metals			
		Bailed dry on	1/31/18. Took a	a grab sample	on 2/1/18				

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (ft btor)
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Project:		Ashland Tank	75	Site:	4545 River F	Rd, Tonawanda	a Well #:	MW-5	-01
Sampling	Personnel:	Sean	P. Connelly, Er	nily Au	Date:	1/29/18	_Company: _	AECC	DM .
Purging/ Sampling Device:	Low Flow P	eristaltic Pum	p (GeoPump 2)	_Tubing Type:	LDPE,	Silicone	_ Tubing Inlet: _	Midpoint of	Screen
Measuring Point:	Below Top of Riser	Initial Depth to Water:	4.01	Depth to Well Bottom:	26.09	Well Diameter:	2.0"	Screen Length:	20
Casing Type:	P۷	/C		Volume Coefficient:	0.617	Volume in 1 Well Casing (liters):	13.6	Estimated Purge Volume (liters):	6
Sample ID:	MW-5-01		Sample Time:	16:	:30	QA/QC:	Field Duplicate parameters.	e collected for	all
Sample Par	ameters:			,	VOCs, SVOC	S, Metals			
	-								

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (ft btor)
16:02	8.07	4.59	1.29	4.58	17.9	125.0	125	4.75
16:07	7.98	4.25	1.26	3.79	15.2	131.0	125	5.40
16:12	7.98	3.36	1.26	3.74	15.3	132.0	100	5.70
16:17	7.94	3.35	1.27	3.65	12.9	134.0	100	6.05
16:22	7.94	3.59	1.26	3.60	13.8	135.0	100	6.25
16:27	7.93	3.72	1.27	3.69	16.0	138.0	100	6.30
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Project:		Ashland Tank	75	Site:	4545 River F	Rd, Tonawanda	a Well #:	MW-5	-02
Sampling	Personnel:	Sean	P. Connelly, En	nily Au	Date:	1/31/18	Company:	AECC	OM
Purging/ Sampling Device:	Low Flow P	eristaltic Pum	p (GeoPump 2)	Tubing Type:	LDPE,	Silicone	Tubing Inlet:	Midpoint of	f Screen
Measuring Point:	Below Top of Riser	Initial Depth to Water:	4.33	Depth to Well Bottom:	26.19	Well Diameter:	2.0"	Screen Length:	20.0'
Casing Type:	PV	/C		Volume Coefficient:	0.617	Volume in 1 Well Casing (liters):	13.5	Estimated Purge Volume (liters):	8
Sample ID:	MW-5-02		Sample Time:	12:	:15	_ QA/QC:			
Sample Par	ameters:				VOCs, SVOC	Cs, Metals			
	-								

PURGE PARAMETERS

TIME	pН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (ft btor)
11:35	7.33	5.73	1.39	3.57	5.4	246.0	125	4.80
11:40	7.35	6.07	1.39	3.17	6.3	244.0	125	5.70
11:45	7.34	6.25	1.39	3.02	9.0	244.0	125	6.35
11:50	7.33	6.39	1.39	2.94	12.6	244.0	125	6.65
11:55	7.33	6.50	1.39	2.89	15.6	241.0	125	6.93
12:00	7.32	6.48	1.39	2.88	19.9	240.0	125	7.21
12:05	7.31	6.66	1.39	2.88	22.1	239.0	125	7.41
12:10	7.31	6.61	1.39	2.88	23.6	237.0	125	7.65
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Project: _		Ashland Tank	75	Site:	4545 River F	Rd, Tonawanda	a Well #:	MW-5	-03
Sampling	Personnel:	Sean P. Connelly, Emil		nily Au	Date:1/29/18(Company:	AECOM	
Purging/ Sampling Device:	Low Flow P	eristaltic Pum	p (GeoPump 2)	Tubing Type:	LDPE,	Silicone	Tubing Inlet:	Midpoint o	f Screen
Measuring Point:	Below Top of Riser	Initial Depth to Water:	7.76	Depth to Well Bottom:	31.15	Well Diameter:	2.0"	Screen Length:	25
Casing Type:	PV	/C		Volume Coefficient:	0.617	Volume in 1 Well Casing (liters):	14.4	Estimated Purge Volume (liters):	8
Sample ID:	MW-5-03		Sample Time:	15:	:35	QA/QC:			
Sample Par	ameters:				VOCs, SVOC	Cs, Metals			
	-								

PURGE PARAMETERS

TIME	mU.	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (m)()	FLOW RATE (ml/min.)	DEPTH TO WATER (ft btor)
	рН					Eh (mV)	, ,	
14:50	7.04	5.74	1.98	9.50	75.7	120.0	125	8.05
14:55	8.13	6.52	1.96	9.44	78.7	121.0	125	8.25
15:00	8.12	6.55	1.96	9.38	79.8	122.0	125	8.48
15:05	8.11	6.57	1.96	9.46	80.9	124.0	125	8.70
15:10	8.11	6.88	1.96	9.59	80.6	125.0	125	8.95
15:15	8.13	6.78	1.95	9.66	79.8	125.0	125	9.20
15:20	8.20	6.82	1.94	10.74	80.3	129.0	125	9.55
15:25	8.17	6.53	1.93	9.93	84.9	132.0	125	9.75
15:30	8.20	6.63	1.94	9.96	89.4	135.0	125	10.05
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Project:	/	Ashland Tank	75	Site:	4545 River	Rd, Tonawanda	a Well#:	MW-5	-04
Sampling	Personnel:	Sean	P. Connelly, En	nily Au	Date:	2/1/18	Company:	AECO	OM
Purging/ Sampling Device:	Low Flow P	eristaltic Pum	p (GeoPump 2)	Tubing Type:	LDPE	E, Silicone	Tubing Inlet:	Midpoint o	f Screen
Measuring Point:	Below Top of Riser	Initial Depth to Water:	2.48	Depth to Well Bottom:	26.75	Well Diameter:	2.0"	Screen Length:	20.0'
Casing Type:	PV	/C		Volume Coefficient:	0.617	Volume in 1 Well Casing (liters):	15.0	Estimated Purge Volume (liters):	14
Sample ID:	MW-5-04		Sample Time:	9:	55	QA/QC:			
Sample Par	ameters:			,	VOCs, SVO	Cs, Metals			
	-								

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (ft btor)
8:35	7.24	11.56	1.24	8.08	18.6	119.0	175	4.15
8:40	7.27	10.23	1.36	8.12	16.7	126.0	175	4.75
8:45	7.23	9.94	1.44	8.07	15.0	130.0	175	5.40
8:50	7.23	9.68	1.29	7.80	13.0	127.0	175	6.05
8:55	7.14	9.48	1.01	7.68	11.7	131.0	175	6.65
9:00	7.10	9.28	0.96	7.55	11.6	130.0	175	6.65
9:05	7.08	9.17	0.94	7.41	11.5	125.0	175	6.65
9:10	7.07	8.94	0.95	7.33	11.6	117.0	175	6.65
9:15	7.05	9.79	0.94	7.29	11.6	94.0	175	6.65
9:20	7.04	8.66	0.94	7.05	17.4	77	175	6.65
9:25	7.04	8.66	0.94	6.58	22.5	62	175	6.65
9:30	7.02	8.53	0.94	6.53	23.2	53	175	6.7
9:35	7.01	8.49	0.94	6.44	22.8	45	175	6.9
9:40	7.01	8.45	0.94	6.34	22	41	175	7.1
9:45	7	8.41	0.94	5.84	19.3	37	175	7.4
9:50	7.01	8.42	0.95	5.75	18.3	33	175	7.65
Tolerance:	0.1		3%	10%	10%	+ or - 10		

ATTACHMENT C

DATA APPLICABILITY REPORT

DATA APPLICABILITY REPORT

GROUNDWATER MONITORING ASHLAND TANK 75 TONAWANDA, NY

Analyses Performed by:

TESTAMERICA LABORATORIES, INC. 777 NEW DURHAM ROAD EDISON, NJ 08817

Prepared for:

ASHLAND LLC DUBLIN, OH 43017

Prepared by:

AECOM
257 WEST GENESEE STREET, SUITE 400
BUFFALO, NY 14202-2657

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TABLES

(Following Text)

Table 1 Validated Groundwater Sample Results

Table 2 Validated Field QC Sample Results

APPENDICES

Appendix A - Validated Sample Reporting Forms

Appendix B - Support Documentation

I. INTRODUCTION

This Data Applicability Report (DAR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for Data Deliverables and the Development of Data Usability Summary Reports, May 2010. This DAR discusses the usability of the analytical data for groundwater samples collected during the January 29, 2018 – February 2, 2018 sampling event at the Ashland Tank 75 Site, located in Tonawanda, NY.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The data being evaluated are from the January 29, 2018 – February 2, 2018 sampling of nine groundwater samples, one field duplicate, one matrix spike (MS)/matrix spike duplicate (MSD) pair, and one trip blank. The analytical laboratory that performed the analyses was TestAmerica Laboratories, Inc. located in Edison, NJ. The samples were analyzed for the following project-specific parameters: Volatile Organic Compounds (VOCs) following United States Environmental Protection Agency (USEPA) Method 8260C, Semivolatile Organic Compounds (SVOCs) by USEPA Method 8270D, and metals by USEPA Method 6010C/7470A. The trip blanks were analyzed for VOCs only.

A limited data validation was performed in accordance with the following USEPA guidelines:

- Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846
 Method 8260B & 8260C, SOP HW-24, Revision 4, October 2014;
- Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Revision 4, August 2008;
- ICP-AES Data Validation, SOP HW-3a, Revision 1, September 2016; and
- Mercury and Cyanide Data Validation, SOP HW-3c, Revision 1, September 2016.

The limited data validation included a review of completeness of all required deliverables; holding times; quality control (QC) results (blanks, matrix spike recoveries, duplicate analyses, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; and a review of laboratory data qualifiers.

Definitions of USEPA data qualifiers are presented at the end of this text. The validated analytical results are presented on Table 1 (groundwater). Copies of the validated laboratory results (i.e., sample reporting forms) are presented in Appendix A. Documentation supporting the qualification of data is presented in Appendix B. Only analytical deviations affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

A full deliverable data package (i.e., NYSDEC ASP Category B or equivalent) was provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved and under proper chain-ofcustody (COC). All samples were analyzed within the required holding times with the following exception:

Samples MW-05-01, Duplicate (MW-05-01), and MW-05-03 were received at the Edison, NJ laboratory outside of the 7-day holding time for SVOCs. The samples were extracted upon receipt at the laboratory. The results for all SVOCs in these samples have been qualified 'UJ' due to the holding time exceedance.

V. NON-CONFORMANCES

Laboratory Control Sample

The percent recovery of VOC methyl tert-butyl ether (MTBE) was below the lower QC limit in the laboratory control sample. The results for MTBE in all samples were qualified 'UJ'.

Instrument Calibration

The percent differences (%D) between the initial calibration (ICAL) average relative response factors (RRF) and the RRFs in the continuing calibration (CCAL) standards were greater than 20% for VOCs 1,2-dibromo-3-chloropropane, acetone, bromoform, carbon tetrachloride, methyl acetate, and trans-1,3-dichloropropene. The results for these compounds in all samples were qualified 'J' or 'UJ' in all samples.

The %D between the ICAL average RRF and the RRFs in the CCAL standard were greater than 20% for SVOC di-n-octyl phthalate. The results for this compound in samples MW-02D, MW-02S, MW-03, MW-04D, MW-04S, MW-05-02, MW-05-03, and MW-05-04 were qualified 'UJ'.

The %D between the ICAL average RRF and the RRF in the CCAL standard was greater than 20% for SVOC 2,4-dinitrotoluene. Since the samples associated with this CCAL, MW-05-01 and its field duplicate, were previously qualified for the holding time exceedance no further qualification was necessary.

VI. SAMPLE RESULTS AND REPORTING

All reporting limits (RLs) were reported in accordance with method requirements and were adjusted for sample size. Results for compounds/analytes detected below the RL are qualified 'J'.

A field duplicate was collected at groundwater location MW-05-01. The field duplicate results exhibited good field and analytical precision.

VII. SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J'/'UJ' (estimated/non-detect, estimated RL) during the limited data review are considered conditionally usable. All other sample results are usable as reported. AECOM does not recommend the recollection of any samples at this time.

Reviewed by: George E. Kisluk, Senior Chemist Date: 2/28/18

DEFINITIONS OF USEPA DATA QUALIFIERS

- U The analyte was analyzed for, but was not detected above the level of the sample reporting limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+- The metal result is an estimated quantity, but the result may be biased high.
- J- The metal result is an estimated quantity, but the result may be biased low.
- UJ The analyte was analyzed for, but not detected. The reporting limit is approximate and may be inaccurate or imprecise.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.

Location ID		MW-02D	MW-02S	MW-03	MW-04D	MW-04S
Sample ID	.**	MW-2D	MW-2S	MW-3 Groundwater	MW-4D Groundwater	MW-4S Groundwater
Matrix		Groundwater	Groundwater			
Depth Interval (ft) Date Sampled		- 02/02/18	01/31/18	-	•	•
				01/31/18	02/01/18	01/31/18
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.33 J
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.48 J
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
,3-Dichloropropene (trans)	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
,4-Dioxane	UG/L	50 U	50 U	50 U	50 U	50 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ

Flags assigned during chemistry validation are shown.

Location ID		MW-02D	MW-02S	MW-03	MW-04D	MW-04S
Sample ID	-	MW-2D	MW-2S	MW-3	MW-4D	MW-4S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater - 02/01/18	Groundwater -
Depth Interval (ft)		- 02/02/18	01/31/18	01/31/18		
Date Sampled Parameter						01/31/18
rarameter	Units		-12			
Volatile Organic Compounds						
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 ⁻ U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 Ü	1.0 U
m&p-Xylene	UG/L	1.0 U	1.0 U	1.0 U	1.0 Ü	1.0 U
Methyl acetate	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
-Xylene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		MW-02D	MW-02S	MW-03	MW-04D	MW-04S
Sample ID		MW-2D	MW-2S	мw-з	MW-4D	MW-4S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater -	Groundwater -
Depth Interval (ft)		-		-		
Date Sampled		02/02/18	01/31/18	01/31/18	02/01/18	01/31/18
Parameter	Units					
Volatile Organic Compounds						
Styrene	UG/L	1.0 U	1.0 U	1.0 _, U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 Ü	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
1,2,4,5-Tetrachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
2,2-oxybis(1-Chloropropane)	UG/L	10 U	10 U	10 U	10 U	10 U
2,3,4,6-Tetrachlorophenol	UG/L	10 U	10 U	10 U	10 U	= 10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	UG/L :	2.0 ∪	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U .	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Location ID		MW-02D	MW-02S	MW-03	MW-04D	MW-04S
Sample ID		MW-2D	MW-2S	MW-3	MW-4D Groundwater	MW-4S Groundwater
Matrix		Groundwater	Groundwater	Groundwater		
Depth Interval (ft)		-	-	-	-	-
Date Sampled Parameter	1	02/02/18	01/31/18	01/31/18	02/01/18	01/31/18
raidifieter	Units					
Semivolatile Organic Compounds						
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	UG/L	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	. UG/L	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	UG/L	20 U	20 U	20 U	20 U	20 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzaldehyde	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(b)fluoranthene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ois(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Location ID		MW-02D	MW-02S	MW-03	MW-04D	MW-04S
Sample ID	*	MW-2D	MW-2S	MW-3	MW-4D Groundwater	MW-4S Groundwater
Matrix	25	Groundwater	Groundwater	Groundwater		
Depth Interval (ft)		, -	-	-	-	-
Date Sampled		02/02/18	01/31/18	01/31/18	02/01/18	01/31/18
Parameter	Units			π		
Semivolatile Organic Compounds						
bis(2-Chloroethyl)ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	10 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	2.0 ∪	2.0 U	2.0 U	2.0 U	2.0 U
Dibenz(a,h)anthracene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	1.0 J	10 U
Di-n-octylphthalate	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	UG/L	5 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorocyclopentadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitroso-di-n-propylamine	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Location ID	- A	MW-02D	MW-02S	MW-03	MW-04D	MW-04S
Sample ID		MW-2D	MW-2S	MW-3	MW-4D Groundwater	MW-4S Groundwater
Matrix		Groundwater	Groundwater	Groundwater		
Depth Interval (ft)		-	-	•		
Date Sampled		02/02/18	01/31/18	01/31/18	02/01/18	01/31/18
Parameter	Units		-		9.	_
Semivolatile Organic Compounds						
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	20 U	20 U	20 U	20 U	20 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Metals	1 1	l		ri'		
Aluminum	UG/L	106 J	200 U	200 U	200 U	200 U
Antimony	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Arsenic	UG/L	15.0 U	15.0 U	15.0 U	6.2 J	15.0 U
Barium	UG/L	110 J	63.3 J	20.4 J	17.8 J	62.0 J
Beryllium	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	UG/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Calcium	UG/L	50,800	77,400	72,200	20,300	80,100
Chromium	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cobalt	UG/L	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Copper	UG/L	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
ron	UG/L	150 U	150 U	150 U	150 U	1,370
_ead	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Magnesium	UG/L	7,490	156,000	175,000	61,200	172,000
Manganese	UG/L	15.0 U	15.0 U	25.3	15.0 U	97.8
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U
Potassium	UG/L	4,860 J	3,970 J	4,560 J	6,160	4,910 J

Flags assigned during chemistry validation are shown.

Location ID		MW-02D	MW-02S	MW-03	MW-04D	MW-04S
Sample ID		MW-2D	MW-2S	MW-3	MW-4D	MW-4S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-
Date Sampled		02/02/18	01/31/18	01/31/18	02/01/18	01/31/18
Parameter	Units			8		8 -
Metals						
Selenium	UG/L	20.0 U				
Silver	UG/L	10.0 U				
Sodium	UG/L	68,200	48,100	91,800	85,700	55,800
Thallium	UG/L	20.0 U				
Vanadium	UG/L	4.5 J	50.0 U	50.0 U	50.0 U	50.0 U
Zinc	UG/L	30.0 U				

Flags assigned during chemistry validation are shown.

Location ID		MW-05-01	MW-05-01	MW-05-02	MW-05-03	MW-05-04
Sample ID		Duplicate	MW-5-01	MW-5-02	MW-5-03	MW-5-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		01/29/18	01/29/18	01/31/18	•	-
Parameter Date Sampled	Date Sampled				01/29/18	02/01/18
raiameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds				R		
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	0.36 J	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ 🖂	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.7	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,4-Dichlorobenzene	UG/L	1.0 U	= 1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	UG/L	50 U	50 U	50 U	50 U	50 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
I-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	7.0 J

Flags assigned during chemistry validation are shown.

Location ID		MW-05-01	MW-05-01	MW-05-02	MW-05-03	MW-05-04
Sample ID	•	Duplicate	MW-5-01	MW-5-02	MW-5-03 Groundwater	MW-5-04 Groundwater
Matrix		Groundwater	Groundwater	Groundwater -		
Depth Interval (ft)		-	•		-	-
Date Sampled		01/29/18	01/29/18	01/31/18	01/29/18	02/01/18
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 J
Bromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		MW-05-01	MW-05-01	MW-05-02	MW-05-03	MW-05-04
Sample ID		Duplicate	MW-5-01	MW-5-02	MW-5-03	MW-5-04 Groundwater
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	
Depth Interval (ft)		-	-	-	v -	
Date Sampled		01/29/18	01/29/18	01/31/18	01/29/18	02/01/18
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	1.0 U	1.0 U	3.2	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	11 UJ	11 UJ ::	10 U	10 UJ	10 U
1,2,4,5-Tetrachlorobenzene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
2,2-oxybis(1-Chloropropane)	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
2,3,4,6-Tetrachlorophenol	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
2,4,5-Trichlorophenol	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
2,4,6-Trichlorophenol	UG/L	_11 UJ	11 UJ	10 U	10 UJ	10 U
2,4-Dichlorophenol	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U 🛚
2,4-Dimethylphenol	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
2,4-Dinitrophenol	UG/L	22 UJ	21 UJ	20 U	20 UJ	20 U
2,4-Dinitrotoluene	UG/L	2.2 UJ	2.1 UJ	2.0 U	2.0 UJ	2.0 U
2,6-Dinitrotoluene	UG/L	2.2 UJ	2.1 UJ	2.0 U	2.0 UJ	2.0 U
2-Chloronaphthalene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
2-Chlorophenol	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
2-Methylnaphthalene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
2-Methylphenol (o-cresol)	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
?-Nitroaniline	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U

Flags assigned during chemistry validation are shown.

Location ID		MW-05-01	MW-05-01	MW-05-02	MW-05-03	MW-05-04
Sample ID	<u></u>	Duplicate	MW-5-01	MW-5-02	MW-5-03	MW-5-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater -	Groundwater -
Depth Interval (ft)		01/29/18	-	-		
	Date Sampled		01/29/18	01/31/18	01/29/18	02/01/18
Parameter	Units	Field Duplicate (1-1)				
Semivolatile Organic Compounds						
2-Nitrophenol	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
3,3-Dichlorobenzidine	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
3-Nitroaniline	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
4,6-Dinitro-2-methylphenol	UG/L	22 UJ	21 UJ	20 U	20 UJ	20 U
4-Bromophenyl-phenylether	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
4-Chioro-3-methylphenol	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
4-Chloroaniline	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
4-Chlorophenyl-phenylether	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
4-Methylphenol (p-cresol)	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
4-Nitroaniline	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
4-Nitrophenol	UG/L	22 UJ	21 UJ	20 U	20 UJ	20 U
Acenaphthene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Acenaphthylene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Acetophenone	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Anthracene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Atrazine	UG/L	2.2 UJ	2.1 UJ	2.0 U	2.0 UJ	2.0 U
Benzaldehyde	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Benzo(a)anthracene	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
Benzo(a)pyrene	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
Benzo(b)fluoranthene	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
Benzo(g,h,i)perylene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Benzo(k)fluoranthene	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
ois(2-Chloroethoxy)methane	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U

Flags assigned during chemistry validation are shown.

Location ID		MW-05-01	MW-05-01	MW-05-02	MW-05-03	MW-05-04
Sample ID	**	Duplicate	MW-5-01	MW-5-02	MW-5-03	MW-5-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled	· -	01/29/18	01/29/18	01/31/18	01/29/18	02/01/18
Parameter	Units	Field Duplicate (1-1)				
Semivolatile Organic Compounds						
bis(2-Chloroethyl)ether	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
bis(2-Ethylhexyl)phthalate	UG/L	2.2 UJ	2.1 UJ	2.0 U	2.0 UJ	2.0 U
Butylbenzylphthalate	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Caprolactam	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Carbazole	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Chrysene	UG/L	2.2 UJ	2.1 UJ	2.0 U	2.0 UJ	2.0 U
Dibenz(a,h)anthracene	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
Dibenzofuran	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Diethylphthalate	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Dimethylphthalate	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Di-n-butylphthalate	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Di-n-octylphthalate	UG/L	11 UJ	11 UJ	10 UJ	10 UJ	10 UJ
Fluoranthene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Fluorene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Hexachlorobenzene	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
Hexachlorobutadiene	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
Hexachlorocyclopentadiene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Hexachloroethane	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
Indeno(1,2,3-cd)pyrene	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
sophorone	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Naphthalene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Nitrobenzene	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U
N-Nitroso-di-n-propylamine	UG/L	1.1 UJ	1.1 UJ	1.0 U	1.0 UJ	1.0 U

Flags assigned during chemistry validation are shown.

Location ID		MW-05-01	MW-05-01	MW-05-02	MW-05-03	MW-05-04
Sample ID		Duplicate	MW-5-01	MW-5-02	MW-5-03	MW-5-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	•.	-
Date Sampled		01/29/18	01/29/18	01/31/18	01/29/18	02/01/18
Parameter	Units	Field Duplicate (1-1)				
Semivolatile Organic Compounds			-			
N-Nitrosodiphenylamine	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Pentachlorophenol	UG/L	22 UJ	21 UJ	20 U	20 UJ	20 U
Phenanthrene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Phenol	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Pyrene	UG/L	11 UJ	11 UJ	10 U	10 UJ	10 U
Metals						
Aluminum	UG/L	200 U	200 U	200 U	200 U	200 U
Antimony	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Arsenic	UG/L	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U
Barium	UG/L	99.7 J	104 J	37.9 J	27.0 J	170 J
Beryllium	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	UG/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Calcium	UG/L	86,900	90,700	85,200	405,000	170,000
Chromium	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cobalt	UG/L	50.0 U	50.0 U	50.0 U	50.0 U	3.5 J
Copper	UG/L	25.0 U	25.0 U	25.0 U	8.4 J	25.0 U
ron	UG/L	150 U	150 U	150 U	150 U	761
ead	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Magnesium	UG/L	124,000	130,000	162,000	42,700	52,500
Manganese	UG/L	91.1	95.7	89.8	32.4	1,500
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
lickel	UG/L	40.0 U	40.0 U	40.0 U	40.0 U	14.6 J
Potassium	UG/L	3,840 J	3,940 J	4,470 J	4,930 J	2,640 J

Flags assigned during chemistry validation are shown.

Location ID		MW-05-01	MW-05-01	MW-05-02	MW-05-03	MW-05-04
Sample ID		Duplicate	MW-5-01	MW-5-02	MW-5-03	MW-5-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	
Date Sampled		01/29/18	01/29/18	01/31/18	01/29/18	02/01/18
Parameter	Units	Field Duplicate (1-1)	0			,
Metals						
Selenium	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Silver	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Sodium	UG/L	42,900	44,500	58,400	42,800	25,900
Thallium	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Vanadium	UG/L	5.3 J	5.3 J	4.6 J	17.7 J	50.0 U
Zinc	UG/L	30.0 U	30.0 U	30.0 U	30.0 U	30.0 U

Flags assigned during chemistry validation are shown.

TABLE 2 VALIDATED FIELD QC SAMPLE RESULTS ASHLAND TANK 75

Location ID		FIELDQC
Sample ID	П	Trip Blank
Matrix		Water Quality
Depth Interval (ft)		a ^ •
Date Sampled	0	02/02/18
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		18
1,1,1-Trichloroethane	UG/L	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	= 1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U
1,1-Dichloroethane	UG/L	1.0 U
1,1-Dichloroethene	UG/L	1.0 U
1,2,3-Trichlorobenzene	UG/L	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U
1,2-Dichloroethane	UG/L	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U
1,2-Dichloroethene (trans)	† UG/L	1.0 U
1,2-Dichloropropane	UG/L	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 UJ
1,4-Dichlorobenzene	UG/L	1.0 U
1,4-Dioxane	UG/L	50 U
2-Hexanone	UG/L	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U
Acetone	UG/L	5.0 UJ

Flags assigned during chemistry validation are shown.

TABLE 2 VALIDATED FIELD QC SAMPLE RESULTS ASHLAND TANK 75

Location ID		FIELDQC
Sample ID		Trip Blank
Matrix		Water Quality
Depth Interval (ft)		•
Date Sampled		02/02/18
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		
Benzene	UG/L	1.0 U
Bromochloromethane	UG/L	1.0 U
Bromodichloromethane	UG/L	1.0 U
Bromoform	UG/L	1.0 UJ
Bromomethane	UG/L	1.0 U
Carbon disulfide	UG/L	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ
Chlorobenzene	UG/L	1.0 U
Chloroethane	UG/L	1:0 U
Chloroform	UG/L	1.0 U
Chloromethane	UG/L	1.0 U
Cyclohexane	UG/L	1.0 Ü
Dibromochloromethane	UG/L	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U
Ethylbenzene	UG/L	1.0 U
sopropylbenzene (Curnene)	UG/L	1.0 U
m&p-Xylene	UG/L	1.0 U
Methyl acetate	UG/L	5.0 UJ
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 U
Methyl tert-butyl ether	UG/L	1.0 UJ
Methylcyclohexane	UG/L	1.0 U
Methylene chloride	UG/L	1.0 U
-Xylene	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

TABLE 2 VALIDATED FIELD QC SAMPLE RESULTS ASHLAND TANK 75

Location ID		FIELDQC
Sample ID	100	Trip Blank
Matrix		Water Quality
Depth Interval (ft)	-	
Date Sampled	02/02/18	
Parameter Units		Trip Blank (1-1)
Volatile Organic Compounds		
Styrene	UG/L	1.0 U
Tetrachloroethene	UG/L	1.0 U
Toluene	UG/L	1.0 U
Trichloroethene	UG/L	1.0 U
Trichlorofluoromethane	UG/L	1.0 U
Vinyl chloride	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

APPENDIX A VALIDATED SAMPLE REPORTING FORMS

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-2S Lab Sample ID: 460-149694-1

Matrix: Water Lab File ID: N62977.D

Analysis Method: 8260C Date Collected: 01/31/2018 09:25

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2018 22:29

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	Ū	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	0.34	Ü	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	U.P1	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	U P1	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U -	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	ט	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	Ū	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	8.7	U	50	8.7
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	Ü	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	ט	5.0	1.1
71-43-2	Benzene	0.090	U	1.0	0.090
75-25-2	Bromoform	0.18	על	1.0	0.18
74-83-9	Bromomethane	0.18	Ū	1.0	0.18
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	ט	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U FA	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U F1	1.0	0.22
75-00-3	Chloroethane	0.37	U EX	1.0	0.37
67-66-3	Chloroform	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	Ü	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
110-82-7	Cyclohexane	0.26	Ū	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	Ū	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	II -	1.0	0.14

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-2S Lab Sample ID: 460-149694-1

Matrix: Water Lab File ID: N62977.D

Analysis Method: 8260C Date Collected: 01/31/2018 09:25

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2018 22:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	Ū	1.0	0.19
98-82-8	Isopropylbenzene	0.32	Ū	1.0	0.32
79-20-9	Methyl acetate	0.58	U	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U * 5	1.0	0.13
108-87-2	Methylcyclohexane	0.22	Ū	1.0	0.22
75-09-2	Methylene Chloride	0.21	ט	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	U	1.0	0.28
95-47-6	o-Xylene	0.32	U	1.0	0.32
100-42-5	Styrene	0.17	U	1.0	0.17
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	ט	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U F1 5	1.0	0.19
79-01-6	Trichloroethene	0.22	Ū	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	Ū	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
	1				

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		74-132
460-00-4	4-Bromofluorobenzene	83		77-124
1868-53-7	Dibromofluoromethane (Surr)	91		72-131
2037-26-5	Toluene-d8 (Surr)	102		80-120



 Lab Name: TestAmerica Edison
 Job No.: 460-149694-1

 SDG No.:
 Lab Sample ID: 460-149694-2

 Matrix: Water
 Lab File ID: N62978.D

 Analysis Method: 8260C
 Date Collected: 02/02/2018 14:45

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2018 22:52

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	ט	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	0.34	U	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	U	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	Ū	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	Ū	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	Ū	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U -	1.0	0.33
123-91-1	1,4-Dioxane	8.7	U	50	8.7
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	U	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	US	5.0	1.1
71-43-2	Benzene	0.090	U	1.0	0.090
75-25-2	Bromoform	0.18	U	1.0	0.18
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	עא	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	Ū	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.26
110-82-7	Cyclohexane	0.16	U U	1.0	0.16
75-27-4	Dichlorobromomethane	0.15	n n	1.0	0.26
75-71-8	Dichlorodifluoromethane	0.13	Ü	1.0	0.15

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-2D Lab Sample ID: 460-149694-2

Matrix: Water Lab File ID: N62978.D

Analysis Method: 8260C Date Collected: 02/02/2018 14:45

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2018 22:52

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	U	1.0	0.19
98-82-8	Isopropylbenzene	0.32	ט	1.0	0.32
79-20-9	Methyl acetate	0.58	U	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U #-	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	U	1.0	0.28
95-47-6	o-Xylene	0.32	U	1.0	0.32
100-42-5	Styrene	0.17	U	1.0	0.17
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	Ū	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		74-132
460-00-4	4-Bromofluorobenzene	84		77-124
1868-53-7	Dibromofluoromethane (Surr)	91		72-131
2037-26-5	Toluene-d8 (Surr)	102		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-3 Lab Sample ID: 460-149694-3

Matrix: Water Lab File ID: N62979.D

Analysis Method: 8260C Date Collected: 01/31/2018 10:40

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2018 23:15

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL ·	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	Ū	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	0.34	U	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	Ū	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	Ü	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	Ū	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	Ū	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	Ū	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	ט <	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	Ū	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	Ū	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	Ū	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	Ū	1.0	0.33
123-91-1	1,4-Dioxane	8.7	U	50	8.7
78-93-3	2-Butanone (MEK)	2.2	Ū	5.0	2.2
591-78-6	2-Hexanone	0.72	Ū	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	Ū	5.0	0.63
67-64-1	Acetone	1.1	US	5.0	1.1
71-43-2	Benzene	0.090	Ū	1.0	0.090
75-25-2	Bromoform	0.18	U	1.0	0.18
74-83-9	Bromomethane	0.18	U ·	1.0	0.18
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	Ū	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U	1.0	0.30
L24-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
57-66-3	Chloroform	0.22	Ū	1.0	0.22
74-87-3	Chloromethane	0.22	Ū	1.0	0.22
56-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
0061-01-5	cis-1,3-Dichloropropene	0.16	Ū	1.0	0.16
10-82-7	Cyclohexane	0.26	U	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	Ū	1.0	0.14

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-3 Lab Sample ID: 460-149694-3

Matrix: Water Lab File ID: N62979.D

Analysis Method: 8260C Date Collected: 01/31/2018 10:40

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2018 23:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q.	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	U	1.0	0.19
98-82-8	Isopropylbenzene	0.32	Ū	1.0	0.32
79-20-9	Methyl acetate	0.58	U	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	UX	1.0	0.13
108-87-2	Methylcyclohexane	0.22	Ū	1.0	0.22
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	Ū	1.0	0.28
95-47-6	o-Xylene	0.32	Ū	1.0	0.32
100-42-5	Styrene	0.17	U	1.0	0.17
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U ·	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		74-132
460-00-4	4-Bromofluorobenzene	83		77-124
1868-53-7	Dibromofluoromethane (Surr)	90		72-131
2037-26-5	Toluene-d8 (Surr)	103		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-4S Lab Sample ID: 460-149694-4

Matrix: Water Lab File ID: N62980.D

Analysis Method: 8260C Date Collected: 01/31/2018 13:52

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2018 23:38

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 495680 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	0.34	U	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
75-34-3	1,1-Dichloroethane	0.33	J	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	U	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	ט	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	ט	1.0	0.33
123-91-1	1,4-Dioxane	8.7	ט	50	8.7
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	U	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	U5.	5.0	1.1
71-43-2	Benzene	0.090	U	1.0	0.090
75-25-2	Bromoform	0.18	U-5	1.0	0.18
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	Ū	1.0	0.37
67-66-3	Chloroform	0.22	Ū	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.48	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
110-82-7	Cyclohexane	0.26	Ü	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	Ū	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.13

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Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-4S Lab Sample ID: 460-149694-4

Matrix: Water Lab File ID: N62980.D

Analysis Method: 8260C Date Collected: 01/31/2018 13:52

Sample wt/vol: 5(mL) Date Analyzed: 02/07/2018 23:38

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	Ū	1.0	0.19
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
79-20-9	Methyl acetate	0.58	U \	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U JE	1.0	0.13
108-87-2	Methylcyclohexane	0.22	Ū	1.0	0.22
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	U	1.0	0.28
95-47-6	o-Xylene	0.32	Ū	1.0	0.32
100-42-5	Styrene	0.17	U	1.0	0.17
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	ט 🥎	1.0	0.19
79-01-6	Trichloroethene	0.22	Ü	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	Ū	1.0	0.15
75-01-4	Vinyl chloride	0.26	J	1.0	0.060

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
460-00-4	4-Bromofluorobenzene	81	81	
1868-53-7	Dibromofluoromethane (Surr)	89	89	
2037-26-5	Toluene-d8 (Surr)	102		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-4D Lab Sample ID: 460-149694-5

Matrix: Water Lab File ID: N62981.D

Analysis Method: 8260C Date Collected: 02/01/2018 10:45

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 495680 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.2
79-34-5	1,1,2,2-Tetrachloroethane	0.19	ט	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	0.34	ט	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	Ū	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	Ū	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	Ū	1.0	0.3
87-61-6	1,2,3-Trichlorobenzene	0.35	Ū	1.0	0.3
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	Ü	1.0	0.3
123-91-1	1,4-Dioxane	8.7	ט	50	8.
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	U	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	ט-ז	5.0	1.1
71-43-2	Benzene	0.090	U	1.0	0.090
75-25-2	Bromoform	0.18	U	1.0	0.18
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	US	1.0	0.33
108-90-7	Chlorobenzene	0.24	ט	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
56-59-2	cis-1,2-Dichloroethene	0.26	Ū	1.0	0.26
0061-01-5	cis-1,3-Dichloropropene	0.16	Ū	1.0	0.16
10-82-7	Cyclohexane	0.26	U	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	Ū	1.0	0.14

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Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-4D Lab Sample ID: 460-149694-5

Matrix: Water Lab File ID: N62981.D

Analysis Method: 8260C Date Collected: 02/01/2018 10:45

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 00:01

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q.	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	Ū	1.0	0.19
98-82-8	Isopropylbenzene	0.32	Ū	1.0	0.32
79-20-9	Methyl acetate	0.58	U	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U #-<	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	Ū	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	U	1.0	0.28
95-47-6	o-Xylene	0.32	U	1.0	0.32
100-42-5	Styrene	0.17	U	1.0	0.17
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	Ü	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	ט 🎸	1.0	0.19
79-01-6	Trichloroethene	0.22	Ü	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	Ū.	1.0	0.15
75-01-4	Vinyl chloride	0.060	_ U	1.0	0.060

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		74-132
460-00-4	4-Bromofluorobenzene	83		77-124
1868-53-7	Dibromofluoromethane (Surr)	90		72-131
2037-26-5	Toluene-d8 (Surr)	102		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-01 Lab Sample ID: 460-149694-6

Matrix: Water Lab File ID: N62982.D

Analysis Method: 8260C Date Collected: 01/29/2018 16:30

Sample wt/vol: 5 (mL) Date Analyzed: 02/08/2018 00:24

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 495680 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.2
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	0.34	Ū	1.0	0.3
79-00-5	1,1,2-Trichloroethane	0.080	<u>י</u>	1.0	0.08
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.2
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.3
87-61-6	1,2,3-Trichlorobenzene	0.35	U	1.0	0.3
120-82-1	1,2,4-Trichlorobenzene	0.27	Ū	1.0	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U-5-U	1.0	0.2
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.2
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.2
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.1
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.3
106-46-7	1,4-Dichlorobenzene	0.33	<u> </u>	1.0	0.3
123-91-1	1,4-Dioxane	8.7	U	50	8.
78-93-3	2-Butanone (MEK)	2.2	ט	5.0	2.:
591-78-6	2-Hexanone	0.72	Ū	5.0	0.7
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.6
67-64-1	Acetone	1.1	U-5	5.0	1.
71-43-2	Benzene	0.090	U	1.0	0.09
75-25-2	Bromoform	0.18	U-5	1.0	0.1
74-83-9	Bromomethane	0.18	U .	1.0	0.1
75-15-0 '	Carbon disulfide	0.22	Ū	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	Ŭ.	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	Ū	1.0	0.22
75-00-3	Chloroethane	0.37	ט	1.0	0.37
67-66-3	Chloroform	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	Ū	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	Ū	1.0	0.16
110-82-7	Cyclohexane	0.26	U	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14

Short Self

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-01 Lab Sample ID: 460-149694-6

Matrix: Water Lab File ID: N62982.D

Analysis Method: 8260C Date Collected: 01/29/2018 16:30

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 00:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	Ū	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	U	1.0	0.19
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
79-20-9	Methyl acetate	0.58	UJ	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	UA	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	ט	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	ט	1.0	0.28
95-47-6	o-Xylene	0.32	U	1.0	0.32
100-42-5	Styrene	0.17	ט	1.0	0.17
127-18-4	Tetrachloroethene	0.12	ט	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		74-132
460-00-4	4-Bromofluorobenzene	85		77-124
1868-53-7	Dibromofluoromethane (Surr)	92		72-131
2037-26-5	Toluene-d8 (Surr)	105		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-02 Lab Sample ID: 460-149694-7

Matrix: Water Lab File ID: N62983.D

Analysis Method: 8260C Date Collected: 01/31/2018 12:15

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 00:47

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	ט	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	0.34	Ū	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
75-34-3	1,1-Dichloroethane	0.36	J	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	U	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U 3	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	U .	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	Ū	1.0	0.33
123-91-1	1,4-Dioxane	8.7	ט	50	8.7
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	U	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	US	5.0	1.1
71-43-2	Benzene	0.090	Ū	1.0	0.090
75-25-2	Bromoform	0.18	0-5	1.0	0.18
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.22	Ū	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	<u>ט</u>	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.22	Ü	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	1.7	-	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	Ū	1.0	0.16
110-82-7	Cyclohexane	0.26	Ū	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-02 Lab Sample ID: 460-149694-7

Matrix: Water Lab File ID: N62983.D

Analysis Method: 8260C Date Collected: 01/31/2018 12:15

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 00:47

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	Ū	1.0	0.19
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
79-20-9	Methyl acetate	0.58	U <	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U #	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	Ū	1.0	0.28
95-47-6	o-Xylene	0.32	U	1.0	0.32
100-42-5	Styrene	0.17	U.	1.0	0.17
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	3.2		1.0	0.060

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		74-132
460-00-4	4-Bromofluorobenzene	84		77-124
1868-53-7	Dibromofluoromethane (Surr)	91		72-131
2037-26-5	Toluene-d8 (Surr)	102		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-03 Lab Sample ID: 460-149694-8

Matrix: Water Lab File ID: N62984.D

Analysis Method: 8260C Date Collected: 01/29/2018 15:35

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 01:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	u	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	0.34	ט	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	Ū	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	Ū	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	Ü	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	Ū	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	Ū	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	Ū.	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	Ū	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	8.7	U	50	8.7
78-93-3	2-Butanone (MEK)	2.2	Ū .	5.0	2.2
591-78-6	2-Hexanone	0.72	Ū	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	Ū	5.0	0.63
67-64-1	Acetone	1.1	US	5.0	1.1
71-43-2	Benzene	0.090	Ū	1.0	0.090
75-25-2	Bromoform	0.18	US	1.0	0.18
74-83-9	Bromomethane	0.18	Ū	1.0	0.18
75-15-0	Carbon disulfide	0.22	Ū	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	Ū	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	Ū	1.0	0.22
74-87-3	Chloromethane	0.22	Ū	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	Ŭ	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	Ū	1.0	0.16
110-82-7	Cyclohexane	0.26	Ū	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	Ū	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	Ū	1.0	0.14

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-03 Lab Sample ID: 460-149694-8

Matrix: Water Lab File ID: N62984.D

Analysis Method: 8260C Date Collected: 01/29/2018 15:35

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 01:10

Soil Aliquot Vol: ____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	ט	1.0	0.19
98-82-8	Isopropylbenzene	0.32	ט	1.0	0.32
79-20-9	Methyl acetate	0.58	U 3	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U #.	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	ט	1.0	0.28
95-47-6	, o-Xylene	0.32	U	1.0	0.32
100-42-5	Styrene	0.17	U	1.0	0.17
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	Ū	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	0.060	Ū	1.0	0.060

CAS NO.	SURROGATE	%REC	Q .	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		74-132
460-00-4	4-Bromofluorobenzene	86		77-124
1868-53-7	Dibromofluoromethane (Surr)	91		72-131
2037-26-5	Toluene-d8 (Surr)	104		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-04 Lab Sample ID: 460-149694-9

Matrix: Water Lab File ID: N62985.D

Analysis Method: 8260C Date Collected: 02/01/2018 09:55

Sample wt/vol: 5 (mL) Date Analyzed: 02/08/2018 01:33

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL .	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan	0.34	U	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	ט	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	ט	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	U .	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	US	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	ט	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	Ū	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	ט	1.0	0.33
123-91-1	1,4-Dioxane	8.7	Ū	50	8.7
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	U	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	7.0	7	5.0	1.1
71-43-2	Benzene	0.15	J	1.0	0.090
75-25-2	Bromoform	0.18	ט־כ	1.0	0.18
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.22	Ū.	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	יט	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	Ü	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.22	Ū	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	Ū	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	Ū	1.0	0.16
110-82-7	Cyclohexane	0.26	Ü	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	ט	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-04 Lab Sample ID: 460-149694-9

Matrix: Water Lab File ID: N62985.D

Analysis Method: 8260C Date Collected: 02/01/2018 09:55

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	ט	1.0	0.19
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
79-20-9	Methyl acetate	0.58	U	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	UX	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	Ü	1.0	0.28
95-47-6	o-Xylene	0.32	U	1.0	0.32
100-42-5	Styrene	0.17	U	1.0	0.17
127-18-4	Tetrachloroethene	0.12	ט	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	ט כ	1.0	0.19
79-01-6	Trichloroethene	0.22	Ū	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		74-132
460-00-4	4-Bromofluorobenzene	83		77-124
1868-53-7	Dibromofluoromethane (Surr)	89		72-131
2037-26-5	Toluene-d8 (Surr)	101		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: Duplicate Lab Sample ID: 460-149694-10

Matrix: Water Lab File ID: N62986.D

Analysis Method: 8260C Date Collected: 01/29/2018 09:00

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 01:56

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	0.34	Ū	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	Ū	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	Ū	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	ט	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	US	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	8.7	ט	50	8.7
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	U	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	US	5.0	1.1
71-43-2	Benzene	0.090	U	1.0	0.090
75-25-2	Bromoform	0.18	U-5	1.0	0.18
74-83-9	Bromomethane	0.18	Ū	1.0	0.18
75-15-0	Carbon disulfide	0.22	Ū	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
108-90-7	Chlorobenzene	0.24	Ü	1.0	0.24
74-97-5	Chlorobromomethane	0.30	Ū	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	Ū	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	Ū	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
110-82-7	Cyclohexane	0.26	Ū	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: Duplicate Lab Sample ID: 460-149694-10

Matrix: Water Lab File ID: N62986.D

Analysis Method: 8260C Date Collected: 01/29/2018 09:00

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 01:56

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	U	1.0	0.19
98-82-8	Isopropylbenzene	0.32	Ū	1.0	0.32
79-20-9	Methyl acetate	0.58	ע ≺	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U.*	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	Ū	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	ט	1.0	0.28
95-47-6	o-Xylene	0.32	U	1.0	0.32
100-42-5	Styrene	0.17	ט	1.0	0.17
127-18-4	Tetrachloroethene	0.12	ט	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	Ū	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	ט	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
460-00-4	4-Bromofluorobenzene	86		77-124
1868-53-7	Dibromofluoromethane (Surr)	90		72-131
2037-26-5	Toluene-d8 (Surr)	105		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 460-149694-11

Matrix: Water Lab File ID: N62987.D

Analysis Method: 8260C Date Collected: 02/02/2018 14:45

Sample wt/vol: 5 (mL) Date Analyzed: 02/08/2018 02:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethan e	0.34	U	1.0	0.34
79-00-5	1,1,2-Trichloroethane	0.080	ט	1.0	0.080
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.35	Ū	1.0	0.35
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	טק	1.0	0.23
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-87-5	1,2-Dichloropropane	0.18	Ū	1.0	0.18
541-73-1	1,3-Dichlorobenzene	0.33	ט	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	8.7	Ū	50	8.7
78-93-3	2-Butanone (MEK)	2.2	U	5.0	2.2
591-78-6	2-Hexanone	0.72	Ū	5.0	0.72
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63	U	5.0	0.63
67-64-1	Acetone	1.1	US	5.0	1.1
71-43-2	Benzene	0.090	U	1.0	0.090
75-25-2	Bromoform	0.18	US	1.0	0.18
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-15-0	Carbon disulfide	0.22	Ū	1.0	0.22
56-23-5	Carbon tetrachloride	0.33	US	1.0	0.33
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
74-97-5	Chlorobromomethane	0.30	U	1.0	0.30
124-48-1	Chlorodibromomethane	0.22	U	1.0	0.22
75-00-3	Chloroethane	0.37	U	1.0	0.37
67-66-3	Chloroform	0.22	Ū	1.0	0.22
74-87-3	Chloromethane	0.22	U	1.0	0.22
156-59-2	cis-1,2-Dichloroethene	0.26	Ū	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
110-82-7	Cyclohexane	0.26	U	1.0	0.26
75-27-4	Dichlorobromomethane	0.15	Ū	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 460-149694-11

Matrix: Water Lab File ID: N62987.D

Analysis Method: 8260C Date Collected: 02/02/2018 14:45

Sample wt/vol: 5(mL) Date Analyzed: 02/08/2018 02:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.19	U	1.0	0.19
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
79-20-9	Methyl acetate	0.58	US	5.0	0.58
1634-04-4	Methyl tert-butyl ether	0.13	U_#/5	1.0	0.13
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22
75-09-2	Methylene Chloride	0.21	ט	1.0	0.21
179601-23-1	m-Xylene & p-Xylene	0.28	U	1.0	0.28
95-47-6	o-Xylene	0.32	U	1.0	0.32
100-42-5	Styrene	0.17	ט	1.0	0.17
127-18-4	Tetrachloroethene	0.12	ט	1.0	0.12
108-88-3	Toluene	0.25	U	1.0	0.25
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-01-4	Vinyl chloride	0.060	U	1.0	0.060

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		74-132
460-00-4	4-Bromofluorobenzene	84		77-124
1868-53-7	Dibromofluoromethane (Surr)	91		72-131
2037-26-5	Toluene-d8 (Surr)	104		80-120



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-2D Lab Sample ID: 460-149694-2

Matrix: Water Lab File ID: N172069.D

Analysis Method: 8270D Date Collected: 02/02/2018 14:45

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 06:55

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.63	U	10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	0.43	ט	10	0.43
108-60-1	2,2'-oxybis[1-chloropropane]	0.93	U	10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	0.69	ט	10	0.69
95-95-4	2,4,5-Trichlorophenol	0.49	ט	10	0.49
88-06-2	2,4,6-Trichlorophenol	0.53	U	10	0.53
120-83-2	2,4-Dichlorophenol	0.63	Ū	10	0.63
105-67-9	2,4-Dimethylphenol	0.91	ט	10	0.91
51-28-5	2,4-Dinitrophenol	2.4	U	20	2.4
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.88	Ū	2.0	0.88
91-58-7	2-Chloronaphthalene	0.61	Ū	10	0.61
95-57-8	2-Chlorophenol	0.74	U	10	0.74
91-57-6	2-Methylnaphthalene	0.88	Ū	10	0.88
95-48-7	2-Methylphenol	1.3	Ū	10	1.3
88-74-4	2-Nitroaniline	0.65	Ū	10	0.65
88-75-5	2-Nitrophenol	0.59	Ū	10	0.59
91-94-1	3,3'-Dichlorobenzidine	1.0	Ū	10	1.0
99-09-2	3-Nitroaniline	0.82	U	10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	20	2.0
101-55-3	4-Bromophenyl phenyl ether	1.0	Ū	10	1.0
59-50-7	4-Chloro-3-methylphenol	0.76	Ū	10	0.76
106-47-8	4-Chloroaniline	0.73	Ū	10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	0.96	Ū	10	0.96
106-44-5	4-Methylphenol	0.87	Ū	10	0.87
100-01-6	4-Nitroaniline	0.48	Ū	10	0.48
100-02-7	4-Nitrophenol	4.7	U	20	4.7
83-32-9	Acenaphthene	0.88	Ū	10	0.88
208-96-8	Acenaphthylene	0.65	U	10	0.65
98-86-2	Acetophenone	1.0	U	10	1.0
120-12-7	Anthracene	0.57	Ū	10	0.57
1912-24-9	Atrazine	0.77	U	2.0	0.77
100-52-7	Benzaldehyde	0.86	U	10	0.86
56-55-3	Benzo[a]anthracene	0.55	11.	1.0	0.55

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-2D Lab Sample ID: 460-149694-2

Matrix: Water Lab File ID: N172069.D

Analysis Method: 8270D Date Collected: 02/02/2018 14:45

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 06:55

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

			T T		
CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.16	U	1.0	0.16
205-99-2	Benzo[b]fluoranthene	0.44	Ū	1.0	0.44
191-24-2	Benzo[g,h,i]perylene	0.75	Ū	10	0.75
207-08-9	Benzo[k]fluoranthene	0.18	Ū	1.0	0.18
111-91-1	Bis (2-chloroethoxy) methane	0.69	U	10	0.69
111-44-4	Bis (2-chloroethyl) ether	0.12	Ū	1.0	0.12
117-81-7	Bis(2-ethylhexyl) phthalate	0.72	U	2.0	0.72
85-68-7	Butyl benzyl phthalate	0.60	ט	10	0.60
105-60-2	Caprolactam	1.1	ט	10	1.1
86-74-8	Carbazole	0.85	ט	10	0.85
218-01-9	Chrysene	0.67	ט	2.0	0.67
53-70-3	Dibenz (a, h) anthracene	0.090	ט	1.0	0.090
132-64-9	Dibenzofuran	0.85	U	10	0.85
84-66-2	Diethyl phthalate	1.0	U	10	1.0
131-11-3	Dimethyl phthalate	0.98	Ū	10	0.98
84-74-2	Di-n-butyl phthalate	0.82	Ū	10	0.82
117-84-0	Di-n-octyl phthalate	0.69	Ū	10	0.69
206-44-0	Fluoranthene	0.72	Ū	10	0.72
86-73-7	Fluorene	0.80	Ū	10	0.80
118-74-1	Hexachlorobenzene	0.47	Ū	1.0	0.47
87-68-3	Hexachlorobutadiene	0.76	Ū	1.0	0.76
77-47-4	Hexachlorocyclopentadiene	0.61	Ū	10	0.61
67-72-1	Hexachloroethane	0.090	U	1.0	0.090
193-39-5	Indeno[1,2,3-cd]pyrene	0.21	Ū	1.0	0.21
78-59-1	Isophorone	0.67	Ū	10	0.67
91-20-3	Naphthalene	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.49	Ū	1.0	0.49
621-64-7	N-Nitrosodi-n-propylamine	0.83	Ū	1.0	0.83
86-30-6	N-Nitrosodiphenylamine	0.74	U	10	0.74
87-86-5	Pentachlorophenol	2.2	U	20	2.2
85-01-8	Phenanthrene	0.65	Ū	10	0.65
108-95-2	Phenol	0.41	Ū	10	0.41
129-00-0	Pyrene	0.83	U	10	0.83

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-2S Lab Sample ID: 460-149694-1

Matrix: Water Lab File ID: N172068.D

Analysis Method: 8270D Date Collected: 01/31/2018 09:25

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 06:34

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.63	U	10	0.6
95-94-3	1,2,4,5-Tetrachlorobenzene	0.43	U	10	0.4
108-60-1	2,2'-oxybis[1-chloropropane]	0.93	U	10	0.9
58-90-2	2,3,4,6-Tetrachlorophenol	. 0.69	ט	10	0.6
95-95-4	2,4,5-Trichlorophenol	0.49	U	10	0.4
88-06-2	2,4,6-Trichlorophenol	0.53	U	10	0.5
120-83-2	2,4-Dichlorophenol	0.63	U	10	0.6
105-67-9	2,4-Dimethylphenol	0.91	Ü	10	0.9
51-28-5	2,4-Dinitrophenol	2.4	U	20	2.
121-14-2	2,4-Dinitrotoluene	1.0	Ü	2.0	1.
606-20-2	2,6-Dinitrotoluene	0.88	U	2.0	0.8
91-58-7	2-Chloronaphthalene	0.61	U	10	0.6
95-57-8	2-Chlorophenol	0.74	U	10	0.7
91-57-6	2-Methylnaphthalene	0.88	U	10	0.8
95-48-7	2-Methylphenol	1.3	U	10	1.
88-74-4	2-Nitroaniline	0.65	U	10	0.6
88-75-5	2-Nitrophenol	0.59	ט	10	0.5
91-94-1	3,3'-Dichlorobenzidine	1.0	U	10	1.
99-09-2	3-Nitroaniline	0.82	U p/i	10	0.8
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	20	2.
101-55-3	4-Bromophenyl phenyl ether	1.0	Ū	10	1.
59-50-7	4-Chloro-3-methylphenol	0.76	U	10	0.7
106-47-8	4-Chloroaniline	0.73	U	10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	0.96	U-	10	0.9
106-44-5	4-Methylphenol	0.87	U	10	0.8
100-01-6	4-Nitroaniline	0.48	Ū	10	0.48
100-02-7	4-Nitrophenol	4.7	U	20	4.
83-32-9	Acenaphthene	0.88	U	10	0.88
208-96-8	Acenaphthylene	0.65	U	10	0.6
98-86-2	Acetophenone	1.0	U	10	1.0
120-12-7	Anthracene	0.57	Ū	10	0.5
1912-24-9	Atrazine	0.77	Ū	2.0	0.7
100-52-7	Benzaldehyde	0.86	Ū	10	0.86
6-55-3	Benzo[a]anthracene	0.55	U -	1.0	0.55

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-2S Lab Sample ID: 460-149694-1

Matrix: Water Lab File ID: N172068.D

Analysis Method: 8270D Date Collected: 01/31/2018 09:25

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 06:34

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.16	U	1.0	0.16
205-99-2	Benzo[b] fluoranthene	0.44	U	1.0	0.44
191-24-2	Benzo[g,h,i]perylene	0.75	Ü	10	0.75
207-08-9	Benzo[k]fluoranthene	0.18	U	1.0	0.18
111-91-1	Bis(2-chloroethoxy)methane	0.69	U .	10	0.69
111-44-4	Bis(2-chloroethyl)ether	0.12	U	1.0	0.12
117-81-7	Bis(2-ethylhexyl) phthalate	0.72	U	2.0	0.72
85-68-7	Butyl benzyl phthalate	0.60	U	10	0.60
105-60-2	Caprolactam	1.1	Ū	10	1.1
86-74-8	Carbazole	0.85	Ü	10	0.85
218-01-9	Chrysene	0.67	U	2.0	0.67
53-70-3	Dibenz (a, h) anthracene	0.090	ט	1.0	0.090
132-64-9	Dibenzofuran	0.85	U	10	0.85
84-66-2	Diethyl phthalate	1.0	ט	10	1.0
131-11-3	Dimethyl phthalate	0.98	U	10	0.98
84-74-2	Di-n-butyl phthalate	0.82	ט	10	0.82
117-84-0	Di-n-octyl phthalate	0.69	U	10	0.69
206-44-0	Fluoranthene	0.72	U	10	0.72
86-73-7	Fluorene	0.80	U	10	0.80
118-74-1	Hexachlorobenzene	0.47	U	1.0	0.47
87-68-3	Hexachlorobutadiene	0.76	U .	1.0	0.76
77-47-4	Hexachlorocyclopentadiene	0.61	U	10	0.61
67-72-1	Hexachloroethane	0.090	U	1.0	0.090
193-39-5	Indeno[1,2,3-cd]pyrene	0.21	U	1.0	0.21
78-59-1	Isophorone	0.67	U	10	0.67
91-20-3	Naphthalene	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.49	U	1.0	0.49
621-64-7	N-Nitrosodi-n-propylamine	0.83	U	1.0	0.83
86-30-6	N-Nitrosodiphenylamine	0.74	U .	10	0.74
87-86-5	Pentachlorophenol	2.2	U	20	2.2
85-01-8	Phenanthrene	0.65	U	10	0.65
108-95-2	Phenol	0.41	Ū	10	0.41
129-00-0	Pyrene	0.83	U	10	0.83

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-3 Lab Sample ID: 460-149694-3

Matrix: Water Lab File ID: N172070.D

Analysis Method: 8270D Date Collected: 01/31/2018 10:40

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 07:16

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.63	Ū	10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	0.43	Ū	10	0.43
108-60-1	2,2'-oxybis[1-chloropropane]	0.93	Ū	10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	0.69	Ū	10	0.69
95-95-4	2,4,5-Trichlorophenol	0.49	U	10	0.49
88-06-2	2,4,6-Trichlorophenol	0.53	Ū	10	0.53
120-83-2	2,4-Dichlorophenol	0.63	U	10	0.63
105-67-9	2,4-Dimethylphenol	0.91	U	10	0.91
51-28-5	2,4-Dinitrophenol	2.4	U	20	2.4
121-14-2	2,4-Dinitrotoluene	1.0	Ū	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.88	U	2.0	0.88
91-58-7	2-Chloronaphthalene	0.61	U .	10	0.61
95-57-8	2-Chlorophenol	0.74	U	10	0.74
91-57-6	2-Methylnaphthalene	0.88	U	10	0.88
95-48-7	2-Methylphenol	1.3	U	10	1.3
88-74-4	2-Nitroaniline	0.65	Ū.	10	0.65
88-75-5	2-Nitrophenol	0.59	U	10	0.59
91-94-1	3,3'-Dichlorobenzidine	1.0	Ū	10	1.0
99-09-2	3-Nitroaniline	0.82	Ū	10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	2.0	Ū	20	2.0
101-55-3	4-Bromophenyl phenyl ether	1.0	Ū	10	1.0
59-50-7	4-Chloro-3-methylphenol	0.76	Ū	10	0.76
106-47-8	4-Chloroaniline	0.73	U	10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	0.96	Ū	10	0.96
106-44-5	4-Methylphenol	0.87	U	10	0.87
100-01-6	4-Nitroaniline	0.48	Ū	10	0.48
100-02-7	4-Nitrophenol	4.7	U	20	4.7
83-32-9	Acenaphthene	0.88	U	10	0.88
208-96-8	Acenaphthylene	0.65	U	10	0.65
98-86-2	Acetophenone	1.0	U	10	1.0
120-12-7	Anthracene	0.57	Ū	10	0.57
1912-24-9	Atrazine	0.77	Ū	2.0	0.77
100-52-7	Benzaldehyde	0.86	U	10	0.86
56-55-3	Benzo[a]anthracene	0.55	U	1.0	0.55

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-3 Lab Sample ID: 460-149694-3

Matrix: Water Lab File ID: N172070.D

Analysis Method: 8270D Date Collected: 01/31/2018 10:40

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 07:16

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.16	U	1.0	0.16
205-99-2	Benzo[b]fluoranthene	0.44	U	1.0	0.44
191-24-2	Benzo[g,h,i]perylene	0.75	U ·	10	0.75
207-08-9	Benzo[k]fluoranthene	0.18	ti	1.0	0.18
111-91-1	Bis (2-chloroethoxy) methane	0.69	U	10	0.69
111-44-4	Bis(2-chloroethyl)ether	0.12	TI T	1.0	0.12
117-81-7	Bis(2-ethylhexyl) phthalate	0.72	U	2.0	0.72
85-68-7	Butyl benzyl phthalate	0.60	ti	10	0.60
105-60-2	Caprolactam	1.1	u	10	1.1
86-74-8	Carbazole	0.85	Ü	10	0.85
218-01-9	Chrysene	0.67	U	2.0	0.67
53-70-3	Dibenz(a,h)anthracene	0.090	Ū	1.0	0.090
132-64-9	Dibenzofuran	0.85	U	10	0.85
84-66-2	Diethyl phthalate	1.0	U	10	1.0
131-11-3	Dimethyl phthalate	0.98	U	10	0.98
84-74-2	Di-n-butyl phthalate	0.82	Ü	10	0.82
117-84-0	Di-n-octyl phthalate	0.69	Ū	10	0.69
206-44-0	Fluoranthene	0.72	Ū	10	0.72
86-73-7	Fluorene	0.80	U	10	0.80
118-74-1	Hexachlorobenzene	0.47	U	1.0	0.47
87-68-3	Hexachlorobutadiene	0.76	U	1.0	0.76
77-47-4	Hexachlorocyclopentadiene	0.61	U	10	0.61
67-72-1	Hexachloroethane	0.090	ט	1.0	0.090
193-39-5	<pre>Indeno[1,2,3-cd]pyrene</pre>	0.21	Ü	1.0	0.21
78-59-1	Isophorone	0.67	Ū	10	0.67
91-20-3	Naphthalene	0.80	Ū	10	0.80
98-95-3	Nitrobenzene	0.49	<u>ט</u>	1.0	0.49
621-64-7	N-Nitrosodi-n-propylamine	0.83	Ū	1.0	0.83
86-30-6	N-Nitrosodiphenylamine	0.74	U	10	0.74
87-86-5	Pentachlorophenol	2.2	Ū	20	2.2
85-01-8	Phenanthrene	0.65	U	10	0.65
108-95-2	Phenol	0.41	U	10	0.41
129-00-0	Pyrene	0.83	Ū	10	0.83

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-4D Lab Sample ID: 460-149694-5

Matrix: Water Lab File ID: N172072.D

Analysis Method: 8270D Date Collected: 02/01/2018 10:45

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 07:57

Con. Extract Vol.: 2 (mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.63	U	10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	0.43	U	10	0.43
108-60-1	2,2'-oxybis[1-chloropropane]	0.93	U	10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	0.69	U	10	0.69
95-95-4	2,4,5-Trichlorophenol	0.49	Ū	10	0.49
88-06-2	2,4,6-Trichlorophenol	0.53	Ū	10	0.53
120-83-2	2,4-Dichlorophenol	0.63	Ū	10	0.63
105-67-9	2,4-Dimethylphenol	0.91	U	10	0.91
51-28-5	2,4-Dinitrophenol	2.4	Ū	20	2.4
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.88	Ū	2.0	0.88
91-58-7	2-Chloronaphthalene	0.61	Ū	10	0.61
95-57-8	2-Chlorophenol	0.74	Ū.	10	0.74
91-57-6	2-Methylnaphthalene	0.88	Ū	10	0.88
95-48-7	2-Methylphenol	1.3.	Ū	10	1.3
88-74-4	2-Nitroaniline	0.65	Ū	10	0.65
88-75-5	2-Nitrophenol	0.59	U	10	0.59
91-94-1	3,3'-Dichlorobenzidine	1.0	U	10	1.0
99-09-2	3-Nitroaniline	0.82	Ū	10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	20	2.0
101-55-3	4-Bromophenyl phenyl ether	1.0	U	10	1.0
59-50-7	4-Chloro-3-methylphenol	0.76	U .	10	0.76
106-47-8	4-Chloroaniline	0.73	Ū	10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	0.96	Ū	10	0.96
106-44-5	4-Methylphenol	0.87	Ū	10	0.87
100-01-6	4-Nitroaniline	0.48	Ū	10	0.48
100-02-7	4-Nitrophenol	4.7	U	20	4.7
83-32-9	Acenaphthene	0.88	Ū	10	0.88
208-96-8	Acenaphthylene	0.65	ט	10	0.65
98-86-2	Acetophenone	1.0	Ū	10	1.0
120-12-7	Anthracene	0.57	Ū	10	0.57
1912-24-9	Atrazine	0.77	Ū	2.0	0.77
100-52-7	Benzaldehyde	0.86	U	10	0.86
56-55-3	Benzo[a]anthracene	0.55	U +	1.0	0.55

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-4D Lab Sample ID: 460-149694-5

Matrix: Water Lab File ID: N172072.D

Analysis Method: 8270D Date Collected: 02/01/2018 10:45

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250(mL) Date Analyzed: 02/07/2018 07:57

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.16	U	1.0	0.16
205-99-2	Benzo[b]fluoranthene	0.44	<u>ט</u>	1.0	0.44
191-24-2	Benzo[g,h,i]perylene	0.75	Ū	10	0.75
207-08-9	Benzo[k]fluoranthene	0.18	Ū	1.0	0.18
111-91-1	Bis (2-chloroethoxy) methane	0.69	Ū	10	0.69
111-44-4	Bis(2-chloroethyl)ether	0.12	ט	1.0	0.12
117-81-7	Bis(2-ethylhexyl) phthalate	0.72	U	2.0	0.72
85-68-7	Butyl benzyl phthalate	0.60	Ū	10	0.60
105-60-2	Caprolactam	1.1	ט	10	1.1
86-74-8	Carbazole	0.85	U	10	0.85
218-01-9	Chrysene	0.67	Ū	2.0	0.67
53-70-3	Dibenz (a, h) anthracene	0.090	U	1.0	0.090
132-64-9	Dibenzofuran	0.85	U	10	0.85
84-66-2	Diethyl phthalate	1.0	U	10	1.0
131-11-3	Dimethyl phthalate	0.98	Ū	10	0.98
84-74-2	Di-n-butyl phthalate	1.0	J	10	0.82
117-84-0	Di-n-octyl phthalate	0.69	U	10	0.69
206-44-0	Fluoranthene	0.72	Ū.	10	0.72
86-73-7	Fluorene	0.80	U	10	0.80
118-74-1	Hexachlorobenzene	0.47	U	1.0	0.47
87-68-3	Hexachlorobutadiene	0.76	U	1.0	0.76
77-47-4	Hexachlorocyclopentadiene	0.61	U	10	0.61
67-72-1	Hexachloroethane	0.090	U	1.0	0.090
193-39-5	Indeno[1,2,3-cd]pyrene	0.21	U	1.0	0.21
78-59-1	Isophorone	0.67	Ū	10	0.67
91-20-3	Naphthalene	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.49	U	1.0	0.49
621-64-7	N-Nitrosodi-n-propylamine	0.83	Ū	1.0	0.83
86-30-6	N-Nitrosodiphenylamine	0.74	Ū	10	0.74
87-86-5	Pentachlorophenol	2.2	Ū .	20	2.2
85-01-8	Phenanthrene	0.65	Ū	10	0.65
108-95-2	Phenol	0.41	U	10	0.41
129-00-0	Pyrene	0.83	Ū	10	0.83

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-4S Lab Sample ID: 460-149694-4

Matrix: Water Lab File ID: N172071.D

Analysis Method: 8270D Date Collected: 01/31/2018 13:52

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 07:37

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.63	U	10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	0.43	Ū	10	0.43
108-60-1	2,2'-oxybis[1-chloropropane]	0.93	U	10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	0.69	U	10	0.69
95-95-4	2,4,5-Trichlorophenol	0.49	U	10	0.49
88-06-2	2,4,6-Trichlorophenol	0.53	U	10	0.53
120-83-2	2,4-Dichlorophenol	0.63	U	10	0.63
105-67-9	2,4-Dimethylphenol	0.91	U	10	0.91
51-28-5	2,4-Dinitrophenol	2.4	U	20	2.4
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.88	Ū	2.0	0.88
91-58-7	2-Chloronaphthalene	0.61	U	10	0.61
95-57-8	2-Chlorophenol	0.74	ט	10	0.74
91-57-6	2-Methylnaphthalene	0.88	U)	10	0.88
95-48-7	2-Methylphenol	1.3	U	10	1.3
88-74-4	2-Nitroaniline	0.65	Ū	10	0.65
88-75-5	2-Nitrophenol	0.59	U	10	0.59
91-94-1	3,3'-Dichlorobenzidine	1.0	Ū .	10	1.0
99-09-2	3-Nitroaniline	0.82	U	10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	20	2.0
101-55-3	4-Bromophenyl phenyl ether	1.0	U	10	1.0
59-50-7	4-Chloro-3-methylphenol	0.76	U	10	0.76
106-47-8	4-Chloroaniline	0.73	U	10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	0.96	ט	10	0.96
106-44-5	4-Methylphenol	0.87	U	10	0.87
100-01-6	4-Nitroaniline	0.48	U	10	0.48
100-02-7	4-Nitrophenol	4.7	U	20	4.7
83-32-9	Acenaphthene	0.88	U	10	0.88
208-96-8	Acenaphthylene	0.65	U	10	0.65
98-86-2	Acetophenone	1.0	U	10	1.0
120-12-7	Anthracene	0.57	Ü	10	0.57
1912-24-9	Atrazine	0.77	<u>ט</u>	2.0	0.77
100-52-7	Benzaldehyde	0.86	U	10	0.86
6-55-3	Benzo[a]anthracene	0.55	TI -	1.0	0.55

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-4S Lab Sample ID: 460-149694-4

Matrix: Water Lab File ID: N172071.D

Analysis Method: 8270D Date Collected: 01/31/2018 13:52

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 07:37

Con. Extract Vol.: 2 (mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

GIG NO	20170777				
CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.16	U	1.0	0.1
205-99-2	Benzo[b]fluoranthene	0.44	ט	1.0	0.4
191-24-2	Benzo[g,h,i]perylene	0.75	U	10	0.7
207-08-9	Benzo[k]fluoranthene	0.18	U	1.0	0.1
111-91-1	Bis(2-chloroethoxy)methane	0.69	Ū	10	0.6
111-44-4	Bis(2-chloroethyl)ether	0.12	ט	1.0	0.1
117-81-7	Bis(2-ethylhexyl) phthalate	0.72	U	2.0	0.7
85-68-7	Butyl benzyl phthalate	0.60	U	10	0.6
105-60-2	Caprolactam	1.1	U	10	1.
86-74-8	Carbazole	0.85	U	10	0.8
218-01-9	Chrysene	0.67	Ū	2.0	0.6
53-70-3	Dibenz (a, h) anthracene	0.090	Ū	1.0	0.09
132-64-9	Dibenzofuran	0.85	U	.10	0.8
84-66-2	Diethyl phthalate	1.0	U	10	1.
131-11-3	Dimethyl phthalate	0.98	U	10	0.9
84-74-2	Di-n-butyl phthalate	0.82	U	10	0.8
117-84-0	Di-n-octyl phthalate	0.69	U	10	0.6
206-44-0	Fluoranthene	0.72	ט	10	0.7
86-73-7	Fluorene	0.80	U	10	0.8
118-74-1	Hexachlorobenzene	0.47	ט	1.0	0.4
87-68-3	Hexachlorobutadiene	0.76	U	1.0	0.7
77-47-4	Hexachlorocyclopentadiene	0.61	U	10	0.6
67-72-1	Hexachloroethane	0.090	U	1.0	0.09
193-39-5	Indeno[1,2,3-cd]pyrene	0.21	U	1.0	0.2
78-59-1	Isophorone	0.67	Ü	10	0.6
91-20-3	Naphthalene	0.80	U	10	0.8
98-95-3	Nitrobenzene	0.49	U	1.0	0.4
621-64-7	N-Nitrosodi-n-propylamine	0.83	Ü	1.0	0.8
86-30-6	N-Nitrosodiphenylamine	0.74	Ū	10	0.7
87-86-5	Pentachlorophenol	2.2	Ü	20	2.
85-01-8	Phenanthrene	0.65	Ū	10	0.6
108-95-2	Phenol	0.41	Ü	10	0.4
129-00-0	Pyrene	0.83	U	10	0.8
	-4-				

Lab Name: TestAmerica Edison

Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-01

Lab Sample ID: 460-149694-6

Matrix: Water

Lab File ID: P00162.D

Analysis Method: 8270D

Extract. Method: 3510C

Date Collected: 01/29/2018 16:30

Sample wt/vol: 235(mL)

Date Extracted: 02/08/2018 09:24

200 (112)

Date Analyzed: 02/08/2018 22:06

Con. Extract Vol.: 2(mL)

Dilution Factor: 1

Injection Volume: 5(uL)

Level: (low/med) Low

% Moisture:

GPC Cleanup: (Y/N) N

Analysis Batch No.: 495912

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.67	U # ~	11	0.67
95-94-3	1,2,4,5-Tetrachlorobenzene	0.46	UH	11	0.46
108-60-1	2,2'-oxybis[1-chloropropane]	0.99	UH	11	0.99
58-90-2	2,3,4,6-Tetrachlorophenol	0.73	UН	11	0.73
95-95-4	2,4,5-Trichlorophenol	0.52	UH	11	0.52
88-06-2	2,4,6-Trichlorophenol	0.56	UH	11	0.56
120-83-2	2,4-Dichlorophenol	0.67	υн	11	0.67
105-67-9	2,4-Dimethylphenol	0.97	UH	11	0.97
51-28-5	2,4-Dinitrophenol	2.5	UH	21	2.5
121-14-2	2,4-Dinitrotoluene	1.1	U H #	2.1	1.1
606-20-2	2,6-Dinitrotoluene	0.94	UH	2.1	0.94
91-58-7	2-Chloronaphthalene	0.65	UH	11	0.65
95-57-8	2-Chlorophenol	0.79	UH	11	0.79
91-57-6	2-Methylnaphthalene	0.94	UH	11	0.94
95-48-7	2-Methylphenol	1.4	UH	11	1.4
88-74-4	2-Nitroaniline	0.69	UH	11	0.69
88-75-5	2-Nitrophenol	0.63	UH	11	0.63
91-94-1	3,3'-Dichlorobenzidine	1.1	UH	11	1.1
99-09-2	3-Nitroaniline	0.87	UH	11	0.87
534-52-1	4,6-Dinitro-2-methylphenol	2.1	UH	21	2.1
101-55-3	4-Bromophenyl phenyl ether	1.1	UH	11	1.1
59-50-7	4-Chloro-3-methylphenol	0.81	HU	11	0.81
106-47-8	4-Chloroaniline	0.78	UH	11	0.78
7005-72-3	4-Chlorophenyl phenyl ether	1.0	UH	11	1.0
106-44-5	4-Methylphenol	0.93	UH	11	0.93
100-01-6	4-Nitroaniline	0.51	UH	11	0.51
100-02-7	4-Nitrophenol	4.9	UH	21	4.9
83-32-9	Acenaphthene	0.94	UH	11	0.94
208-96-8	Acenaphthylene	0.69	UH	11	0.69
98-86-2	Acetophenone	1.1	UH	11	1.1
120-12-7	Anthracene	0.61	UH	11	0.61
1912-24-9	Atrazine		UH	2.1	0.82
100-52-7	Benzaldehyde		UHF	11	0.82
56-55-3	Benzo[a]anthracene		UH	1.1	0.59



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-01 Lab Sample ID: 460-149694-6

Matrix: Water Lab File ID: P00162.D

Analysis Method: 8270D Date Collected: 01/29/2018 16:30

Extract. Method: 3510C Date Extracted: 02/08/2018 09:24

Sample wt/vol: 235(mL) Date Analyzed: 02/08/2018 22:06

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.17	и н 🤫	1.1	0.17
205-99-2	Benzo[b] fluoranthene	0.47	UH	1.1	0.47
191-24-2	Benzo[g,h,i]perylene	0.80	UH	11	0.80
207-08-9	Benzo[k]fluoranthene	0.19	UH	1.1	0.19
111-91-1	Bis(2-chloroethoxy)methane	0.73	UH	11	0.73
111-44-4	Bis(2-chloroethyl)ether	0.13	UH	1.1	0.13
117-81-7	Bis(2-ethylhexyl) phthalate	0.77	UH	2.1	0.77
85-68-7	Butyl benzyl phthalate	0.64	UH	11	0.64
105-60-2	Caprolactam	1.1	UH	11	1.1
86-74-8	Carbazole	0.90	UH	11	0.90
218-01-9	Chrysene	0.71	UH	2.1	0.71
53-70-3	Dibenz (a, h) anthracene	0.096	UH	1.1	0.096
132-64-9	Dibenzofuran	0.90	ЦU	11	0.90
84-66-2	Diethyl phthalate	1.1	UH	11	1.1
131-11-3	Dimethyl phthalate	1.0	UH	11	1.0
84-74-2	Di-n-butyl phthalate	0.87	UH	11	0.87
117-84-0	Di-n-octyl phthalate	0.73	UH	11	0.73
206-44-0	Fluoranthene	0.77	UH	11	0.77
86-73-7	Fluorene	0.85	UH	11	0.85
118-74-1	Hexachlorobenzene	0.50	UH	1.1	0.50
87-68-3	Hexachlorobutadiene	0.81	UH	1.1	0.81
77-47-4	Hexachlorocyclopentadiene	0.65	UH	11	0.65
67-72-1	Hexachloroethane	0.096	UH	1.1	0.096
193-39-5	Indeno[1,2,3-cd]pyrene	0.22	UH	1.1	0.22
78-59-1	Isophorone	0.71	UH	11	0.71
91-20-3	Naphthalene	0.85	UH	11	0.85
98-95-3	Nitrobenzene	0.52	U H 🗡	1.1	0.52
621-64-7	N-Nitrosodi-n-propylamine	0.88	UH	1.1	0.88
86-30-6	N-Nitrosodiphenylamine	0.79	UH	11	0.79
87-86-5	Pentachlorophenol	2.3	UH	21	2.3
85-01-8	Phenanthrene	0.69	UH	11	0.69
108-95-2	Phenol	0.44	UB	11	0.44
129-00-0	Pyrene	0.88	UHU	11	0.88



mw-5-01

Lab Name: TestAmerica Edison

Job No.: 460-149694-1

SDG No.:

Client Sample ID: Duplicate

Matrix: Water

Analysis Method: 8270D

Extract. Method: 3510C

Sample wt/vol: 230(mL)

Con. Extract Vol.: 2(mL)

Injection Volume: 5(uL)

% Moisture:

Analysis Batch No.: 495912

Lab Sample ID: 460-149694-10

Lab File ID: P00163.D

Date Collected: 01/29/2018 09:00

Date Extracted: 02/08/2018 09:24

Date Analyzed: 02/08/2018 22:29

Dilution Factor: 1

Level: (low/med) Low

GPC Cleanup: (Y/N) N

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.68	UH	11	0.68
95-94-3	1,2,4,5-Tetrachlorobenzene	0.47	UH	11	0.47
108-60-1	2,2'-oxybis[1-chloropropane]	1.0	UH	11	1.0
58-90-2	2,3,4,6-Tetrachlorophenol	0.75	UH	11	0.75
95-95-4	2,4,5-Trichlorophenol	0.53	UH	11	0.53
88-06-2	2,4,6-Trichlorophenol	0.58	UH	11	0.58
120-83-2	2,4-Dichlorophenol	0.68	UH	11	0.68
105-67-9	2,4-Dimethylphenol	0.99	UH	11	0.99
51-28-5	2,4-Dinitrophenol	2.6	UH	22	2.6
121-14-2	2,4-Dinitrotoluene	1.1	υн#	2.2	1.1
606-20-2	2,6-Dinitrotoluene	0.96	UH	2.2	0.96
91-58-7	2-Chloronaphthalene	0.66	UH	11	0.66
95-57-8	2-Chlorophenol	0.80	UH	11	0.80
91-57-6	2-Methylnaphthalene	0.96	UH	11	0.96
95-48-7	2-Methylphenol	1.4	UH	11	1.4
88-74-4	2-Nitroaniline	0.71	UH	11	0.71
88-75-5	2-Nitrophenol	0.64	UH	11	0.64
91-94-1	3,3'-Dichlorobenzidine	1.1	UH	11	1.1
99-09-2	3-Nitroaniline	0.89	UH	11	0.89
534-52-1	4,6-Dinitro-2-methylphenol	2.2	UH	22	2.2
101-55-3	4-Bromophenyl phenyl ether	1.1	UH	11	1.1
59-50-7	4-Chloro-3-methylphenol	0.83	UHU	11	0.83
106-47-8	4-Chloroaniline	0.79	UH	11	0.79
7005-72-3	4-Chlorophenyl phenyl ether	1.0	UH	11	1.0
106-44-5	4-Methylphenol	0.95	UH	11	0.95
100-01-6	4-Nitroaniline	0.52	UH	11	0.52
100-02-7	4-Nitrophenol	5.1	UH	22	5.1
83-32-9	Acenaphthene	0.96	UH	11	0.96
208-96-8	Acenaphthylene	0.71	UH	11	0.71
98-86-2	Acetophenone	1.1	UH	11	1.1
120-12-7	Anthracene	0.62	UH	11	0.62
1912-24-9	Atrazine	0.84	UH	2.2	0.84
100-52-7	Benzaldehyde	0.93	UH	11	
6-55-3	Benzo[a]anthracene	0.60	UHU	1.1	0.93



mw-5-01

FORM I GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison

Job No.: 460-149694-1

SDG No.:

Client Sample ID: Duplicate

Matrix: Water

Analysis Method: 8270D

Extract. Method: 3510C

Sample wt/vol: 230(mL)

Con. Extract Vol.: 2(mL)

Injection Volume: 5(uL)

% Moisture:

Analysis Batch No.: 495912

Lab Sample ID: 460-149694-10

Lab File ID: P00163.D

Date Collected: 01/29/2018 09:00

Date Extracted: 02/08/2018 09:24

Date Analyzed: 02/08/2018 22:29

Dilution Factor: 1

Level: (low/med) Low

GPC Cleanup: (Y/N) N

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.17	UH	1.1	0.17
205-99-2	Benzo[b]fluoranthene	0.48	UH	1.1	0.48
191-24-2	Benzo[g,h,i]perylene	0.82	UH	11	0.82
207-08-9	Benzo[k]fluoranthene	0.20	UH	1.1	0.20
111-91-1	Bis(2-chloroethoxy)methane	0.75	UH	11	0.75
111-44-4	Bis(2-chloroethyl)ether	0.13	UH	1.1	0.13
117-81-7	Bis(2-ethylhexyl) phthalate	0.78	UH	2.2	0.78
85-68-7	Butyl benzyl phthalate	0.65	UH	11	0.65
105-60-2	Caprolactam	1.1	UH	11	1.1
86-74-8	Carbazole	0.92	UH	11	0.92
218-01-9	Chrysene	0.73	UH	2.2	0.73
53-70-3	Dibenz (a, h) anthracene	0.098	U H	1.1	0.098
132-64-9	Dibenzofuran	0.92	UH	11	0.92
84-66-2	Diethyl phthalate	1.1	UH	11	1.1
131-11-3	Dimethyl phthalate	1.1	UH	11	1.1
84-74-2	Di-n-butyl phthalate	0.89	UH	11	0.89
117-84-0	Di-n-octyl phthalate	0.75	UH	11	0.75
206-44-0	Fluoranthene	0.78	UH	11	0.78
86-73-7	Fluorene	0.87	UH	11	0.87
118-74-1	Hexachlorobenzene	0.51	UH	1.1	0.51
87-68-3	Hexachlorobutadiene	0.83	UH	1.1	0.83
77-47-4	Hexachlorocyclopentadiene	0.66	UH	11	0.66
67-72-1	Hexachloroethane	0.098	UH	1.1	0.098
193-39-5	Indeno[1,2,3-cd]pyrene	0.23	UH	1.1	0.23
78-59-1	Isophorone	0.73	UH	11	0.73
91-20-3	Naphthalene	0.87	UН	11	0.87
98-95-3	Nitrobenzene	0.53	Ū H 🗡	1.1	0.53
621-64-7	N-Nitrosodi-n-propylamine	0.90	UH	1.1	0.90
86-30-6	N-Nitrosodiphenylamine	0.80	UH	11	0.80
87-86-5	Pentachlorophenol	2.4	UH	22	2.4
85-01-8	Phenanthrene	0.71	UH	11	0.71
108-95-2	Phenol	0.45	UH	11	0.45
129-00-0	Pyrene	0.90	UH	11	0.90



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-02 Lab Sample ID: 460-149694-7

Matrix: Water Lab File ID: N172074.D

Analysis Method: 8270D Date Collected: 01/31/2018 12:15

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 08:39

Con. Extract Vol.: 2 (mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.63	U	10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	0.43	ט	10	0.43
108-60-1	2,2'-oxybis[1-chloropropane]	0.93	U	10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	0.69	U	10	0.69
95-95-4	2,4,5-Trichlorophenol	0.49	ט	10	0.49
88-06-2	2,4,6-Trichlorophenol	0.53	U	10	0.53
120-83-2	2,4-Dichlorophenol	0.63	U	10	0.63
105-67-9	2,4-Dimethylphenol	0.91	U	10	0.91
51-28-5	2,4-Dinitrophenol	2.4	U	20	2.4
121-14-2	2,4-Dinitrotoluene	1.0	Ū	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.88	Ū	2.0	0.88
91-58-7	2-Chloronaphthalene	0.61	U	10	0.61
95-57-8	2-Chlorophenol	0.74	ט ו	10	0.74
91-57-6	2-Methylnaphthalene	0.88	U	10	0.88
95-48-7	2-Methylphenol	1.3	U	10	1.3
88-74-4	2-Nitroaniline	0.65	U	10	0.65
88-75-5	2-Nitrophenol	0.59	U	10	0.59
91-94-1	3,3'-Dichlorobenzidine	1.0	ט	10	1.0
99-09-2	3-Nitroaniline	0.82	U	10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U	20	2.0
101-55-3	4-Bromophenyl phenyl ether	1.0	U	10	1.0
59-50-7	4-Chloro-3-methylphenol	0.76	U	10	0.76
106-47-8	4-Chloroaniline	0.73	ט	10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	0.96	U	10	0.96
106-44-5	4-Methylphenol	0.87	U	10	0.87
100-01-6	4-Nitroaniline	0.48	U	10	0.48
100-02-7	4-Nitrophenol	4.7	U	20	4.7
83-32-9	Acenaphthene	0.88.	U	10	0.88
208-96-8	Acenaphthylene	0.65	U	10	0.65
98-86-2	Acetophenone	1.0	Ū	10	1.0
120-12-7	Anthracene	0.57	Ü	10	0.57
1912-24-9	Atrazine	0.77	Ü	2.0	0.77
100-52-7	Benzaldehyde	0.86	U	10	0.86
56-55-3	Benzo[a]anthracene	0.55	U	1.0	0.55

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-02 Lab Sample ID: 460-149694-7

Matrix: Water Lab File ID: N172074.D

Analysis Method: 8270D Date Collected: 01/31/2018 12:15

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 08:39

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.16	U	1.0	0.1
205-99-2	Benzo[b] fluoranthene	0.44	ט	1.0	0.4
191-24-2	Benzo[g,h,i]perylene	0.75	U	10	0.7
207-08-9	Benzo[k]fluoranthene	0.18	U	1.0	0.1
111-91-1	Bis(2-chloroethoxy)methane	0.69	U	10	0.6
111-44-4	Bis(2-chloroethyl)ether	0.12	Ü	1.0	0.1
117-81-7	Bis(2-ethylhexyl) phthalate	0.72	U	2.0	0.7
85-68-7	Butyl benzyl phthalate	0.60	U	10	0.6
105-60-2	Caprolactam	1.1	U	10	1.
86-74-8	Carbazole	0.85	U	10	0.8
218-01-9	Chrysene	0.67	ט	2.0	0.6
53-70-3	Dibenz(a,h)anthracene	0.090	U	1.0	0.09
132-64-9	Dibenzofuran	0.85	U	10	0.8
84-66-2	Diethyl phthalate	1.0	U	10	1.
131-11-3	Dimethyl phthalate	0.98	Ū	10	0.9
84-74-2	Di-n-butyl phthalate	0.82	Ü	10	0.8
117-84-0	Di-n-octyl phthalate	0.69	Ū	10	0.6
206-44-0	Fluoranthene	0.72	U	10	0.7
86-73-7	Fluorene	0.80	U	10	0.8
118-74-1	Hexachlorobenzene	0.47	U	1.0	0.4
87-68-3	Hexachlorobutadiene	0.76	Ū	1.0	0.7
77-47-4	Hexachlorocyclopentadiene	0.61	U	10	0.6
67-72-1	Hexachloroethane	0.090	U	1.0	0.090
193-39-5	Indeno[1,2,3-cd]pyrene	0.21	U	1.0	0.2
78-59-1	Isophorone	0.67	Ū	10	0.6
91-20-3	Naphthalene	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.49	Ū	1.0	0.4
521-64-7	N-Nitrosodi-n-propylamine	0.83	Ū	1.0	0.83
36-30-6	N-Nitrosodiphenylamine	0.74	Ū	10	0.74
37-86-5	Pentachlorophenol	2.2	U	20	2.2
35-01-8	Phenanthrene	0.65	Ū	10	0.65
108-95-2	Phenol	0.41	U	10	0.41
29-00-0	Pyrene	0.83	U	10	0.83

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-03 Lab Sample ID: 460-149694-8

Matrix: Water Lab File ID: N172075.D

Analysis Method: 8270D Date Collected: 01/29/2018 15:35

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 09:00

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.63	UF	10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	0.43	U	10	0.43
108-60-1	2,2'-oxybis[1-chloropropane]	0.93	UH	10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	0.69	UН	10	0.69
95-95-4	2,4,5-Trichlorophenol	0.49	UH	10	0.49
88-06-2	2,4,6-Trichlorophenol	0.53	UH	10	0.53
120-83-2	2,4-Dichlorophenol	0.63	UH	10	0.63
105-67-9	2,4-Dimethylphenol	0.91	UH	10	0.91
51÷28-5	2,4-Dinitrophenol	2.4	UH	20	2.4
121-14-2	2,4-Dinitrotoluene	1.0	UH	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.88	ИH	2.0	0.88
91-58-7	2-Chloronaphthalene	0.61	UH	10	0.61
95-57-8	2-Chlorophenol	0.74	UH	10	0.74
91-57-6	2-Methylnaphthalene	0.88	UH	10	0.88
95-48-7	2-Methylphenol	1.3	UH	10	1.3
88-74-4	2-Nitroaniline	0.65	UH	10	0.65
88-75-5	2-Nitrophenol	0.59	UH	10	0.59
91-94-1	3,3'-Dichlorobenzidine	1.0	UH	10	1.0
99-09-2	3-Nitroaniline	0.82	UH	10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	2.0	UH	20	2.0
101-55-3	4-Bromophenyl phenyl ether	1.0	UH	10	1.0
59-50-7	4-Chloro-3-methylphenol	0.76	UH	10	0.76
106-47-8	4-Chloroaniline	0.73	UH	10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	0.96	UH	10	0.96
106-44-5	4-Methylphenol	0.87	UH	10	0.87
100-01-6	4-Nitroaniline	0.48	UH	10	0.48
100-02-7	4-Nitrophenol	4.7	UH	20	4.7
83-32-9	Acenaphthene	0.88	UH	10	0.88
208-96-8	Acenaphthylene	0.65	UH	10	0.65
98-86-2	Acetophenone	1.0	UH	10	1.0
120-12-7	Anthracene	0.57	UH	10	0.57
1912-24-9	Atrazine	0.77	UH	2.0	0.77
100-52-7	Benzaldehyde	0.86	UH	10	0.86
56-55-3	Benzo[a]anthracene	0.55	UH	1.0	0.55



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-03 Lab Sample ID: 460-149694-8

Matrix: Water Lab File ID: N172075.D

Analysis Method: 8270D Date Collected: 01/29/2018 15:35

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 09:00

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.16	U H 🗸	1.0	0.16
205-99-2	Benzo[b]fluoranthene	0.44	UH	1.0	0.44
191-24-2	Benzo[g,h,i]perylene	0.75	UH	10	0.75
207-08-9	Benzo[k]fluoranthene	0.18	UH	1.0	0.18
111-91-1	Bis (2-chloroethoxy) methane	0.69	UH	10	0.69
111-44-4	Bis(2-chloroethyl)ether	0.12	UH	1.0	0.12
117-81-7	Bis(2-ethylhexyl) phthalate	0.72	UH	2.0	0.72
85-68-7	Butyl benzyl phthalate	0.60	UH	10	0.60
105-60-2	Caprolactam	1.1	UH	10	1.1
86-74-8	Carbazole	0.85	UH	10	0.85
218-01-9	Chrysene	0.67	UH	2.0	0.67
53-70-3	Dibenz (a, h) anthracene	0.090	UH	1.0	0.090
132-64-9	Dibenzofuran	0.85	UH.	10	0.85
84-66-2	Diethyl phthalate	1.0	UH	10	1.0
131-11-3	Dimethyl phthalate	0.98	UH	10	0.98
84-74-2	Di-n-butyl phthalate	0.82	UH	10	0.82
117-84-0	Di-n-octyl phthalate	0.69	UH	10	0.69
206-44-0	Fluoranthene	0.72	UH	10	0.72
86-73-7	Fluorene	0.80	UH	10	0.80
118-74-1	Hexachlorobenzene	0.47	UH	1.0	0.47
87-68-3	Hexachlorobutadiene	0.76	UH	1.0	0.76
77-47-4	Hexachlorocyclopentadiene	0.61	UH	10	0.61
67-72-1	Hexachloroethane	0.090	UH	1.0	0.090
193-39-5	Indeno[1,2,3-cd]pyrene	0.21	UH	1.0	0.21
78-59-1	Isophorone	0.67	UH	10	0.67
91-20-3	Naphthalene	0.80	UH	10	0.80
98-95-3	Nitrobenzene	0.49	UH	1.0	0.49
621-64-7	N-Nitrosodi-n-propylamine	0.83	UH	1.0	0.83
86-30-6	N-Nitrosodiphenylamine	0.74	UH	10	0.74
87-86-5	Pentachlorophenol	2.2	UH	20	2.2
85-01-8	Phenanthrene	0.65	UH	10	0.65
108-95-2	Phenol	0.41	UH	10	0.41
129-00-0	Pyrene	0.83	U H	10	0.83



Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-04 Lab Sample ID: 460-149694-9

Matrix: Water Lab File ID: N172076.D

Analysis Method: 8270D Date Collected: 02/01/2018 09:55

Extract. Method: 3510C Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250 (mL) Date Analyzed: 02/07/2018 09:20

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 5(uL) Level: (low/med) Low

% Moisture: GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.63	Ū	10	0.63
95-94-3	1,2,4,5-Tetrachlorobenzene	0.43	Ū	10	0.43
108-60-1	2,2'-oxybis[1-chloropropane]	0.93	U	10	0.93
58-90-2	2,3,4,6-Tetrachlorophenol	0.69	U	10	0.69
95-95-4	2,4,5-Trichlorophenol	0.49	ט	10	0.49
88-06-2	2,4,6-Trichlorophenol	0.53	ן ט	10	0.53
120-83-2	2,4-Dichlorophenol	0.63	U	10	0.63
105-67-9	2,4-Dimethylphenol	0.91	Ū	10	0.91
51-28-5	2,4-Dinitrophenol	2.4	U	20	2.4
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.88	U	2.0	0.88
91-58-7	2-Chloronaphthalene	0.61	Ū	10	0.61
95-57-8	2-Chlorophenol	0.74	Ū	10	0.74
91-57-6	2-Methylnaphthalene	0.88	Ū	10	0.88
95-48-7	2-Methylphenol	1.3	Ū	10	1.3
88-74-4	2-Nitroaniline	0.65	Ū	10	0.65
88-75-5	2-Nitrophenol	0.59	Ū	10	0.59
91-94-1	3,3'-Dichlorobenzidine	1.0	Ū.	10	1.0
99-09-2	3-Nitroaniline	0.82	Ū	10	0.82
534-52-1	4,6-Dinitro-2-methylphenol	2.0	Ū	20	2.0
101-55-3	4-Bromophenyl phenyl ether	1.0	Ū	10	1.0
59-50-7	4-Chloro-3-methylphenol	0.76	Ū	10	0.76
106-47-8	4-Chloroaniline	0.73	U	10	0.73
7005-72-3	4-Chlorophenyl phenyl ether	0.96	Ū	10	0.96
106-44-5	4-Methylphenol	0.87	Ü	10	0.87
100-01-6	4-Nitroaniline	0.48	Ū	10	0.48
100-02-7	4-Nitrophenol	4.7	U	20	4.7
83-32-9	Acenaphthene	0.88	Ū	10	0.88
208-96-8	Acenaphthylene	0.65	U	10	0.65
98-86-2	Acetophenone	1.0	Ū	10	1.0
120-12-7	Anthracene	0.57	U	10	0.57
1912-24-9	Atrazine	0.77	Ü	2.0	0.77
100-52-7	Benzaldehyde	0.86	Ū	10	0.86
56-55-3	Benzo[a]anthracene	0.55	TJ T	1.0	0.55

Lab Name: TestAmerica Edison

Job No.: 460-149694-1

SDG No.:

Client Sample ID: MW-5-04

Lab Sample ID: 460-149694-9

Matrix: Water

Lab File ID: N172076.D

Analysis Method: 8270D

Date Collected: 02/01/2018 09:55

Extract. Method: 3510C

Date Extracted: 02/06/2018 13:03

Sample wt/vol: 250(mL)

Date Analyzed: 02/07/2018 09:20

Con. Extract Vol.: 2(mL)

Dilution Factor: 1

Injection Volume: 5(uL)

Level: (low/med) Low

GPC Cleanup: (Y/N) N

% Moisture:

Analysis Batch No.: 495410

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	0.16	Ü	1.0	0.16
205-99-2	Benzo[b]fluoranthene	0.44	U	1.0	0.44
191-24-2	Benzo[g,h,i]perylene	0.75	U	10	0.75
207-08-9	Benzo[k]fluoranthene	0.18	U	1.0	0.18
111-91-1	Bis(2-chloroethoxy)methane	0.69	U	10	0.69
111-44-4	Bis(2-chloroethyl)ether	0.12	U	1.0	0.12
117-81-7	Bis(2-ethylhexyl) phthalate	0.72	U	2.0	0.72
85-68-7	Butyl benzyl phthalate	0.60	U	10	0.60
105-60-2	Caprolactam	1.1	ט	10	1.1
86-74-8	Carbazole	0.85	ט	10	0.85
218-01-9	Chrysene	0.67	U	2.0	0.67
53-70-3	Dibenz(a,h)anthracene	0.090	U	1.0	0.090
132-64-9	Dibenzofuran	0.85	Ū	10	0.85
84-66-2	Diethyl phthalate	1.0	U	10	1.0
131-11-3	Dimethyl phthalate	0.98	U	10	0.98
84-74-2	Di-n-butyl phthalate	0.82	U	10	0.82
117-84-0	Di-n-octyl phthalate	0.69	Ū	10	0.69
206-44-0	Fluoranthene	0.72	U	10	0.72
86-73-7	Fluorene	0.80	Ū	10	0.80
118-74-1	Hexachlorobenzene	0.47	Ū	1.0	0.47
87-68-3	Hexachlorobutadiene	0.76	Ū	1.0	0.76
77-47-4	Hexachlorocyclopentadiene	0.61	U	10	0.61
67-72-1	Hexachloroethane	0.090	U	1.0	0.090
193-39-5	Indeno[1,2,3-cd]pyrene	0.21	U	1.0	0.21
78-59-1	Isophorone	0.67	U	10	0.67
91-20-3	Naphthalene	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.49	U	1.0	0.49
621-64-7	N-Nitrosodi-n-propylamine	0.83	ט	1.0	0.83
86-30-6	N-Nitrosodiphenylamine	0.74	Ū	10	0.74
87-86-5	Pentachlorophenol	2.2	Ū	20	2.2
85-01-8	Phenanthrene	0.65	Ū	10	0.65
108-95-2	Phenol	0.41	U	10	0.41
129-00-0	Pyrene	0.83	U	10	0.83

Client Sample ID: MW-2D Lab Sample ID: 460-149694-2

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG ID.:

Matrix: Water Date Sampled: 02/02/2018 14:45

Reporting Basis: WET Date Received: 02/06/2018 09:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	106	200	91.1	ug/L	J		1	6010C
7440-36-0	Antimony	7.4	20.0	7.4	ug/L	Ū		1	6010C
7440-38-2	Arsenic	4.4	15.0	4.4	ug/L	Ū		1	6010C
7440-39-3	Barium	110	200	8.6	ug/L	J		1	6010C
7440-41-7	Beryllium	0.97	2.0	0.97	ug/L	Ū		1	6010C
7440-43-9	Cadmium	1.8	4.0	1.8	ug/L	U		1	6010C
7440-70-2	Calcium	50800	5000	354	ug/L			1	6010C
7440-47-3	Chromium	3.3	10.0	3.3	ug/L	Ū		1	6010C
7440-48-4	Cobalt	3.1	50.0	3.1	ug/L	Ü		1	6010C
7440-50-8	Copper	8.1	25.0	8.1	ug/L	Ū		1	6010C
7439-89-6	Iron	92.1	150	92.1	ug/L	Ū		1	6010C
7439-92-1	Lead	4.1	10.0	4.1	ug/L	Ū		1	6010C
7439-95-4	Magnesium	7490	5000	311	ug/L			1	6010C
7439-96-5	Manganese	3.1	15.0	3.1	ug/L	ט		1	6010C
7440-02-0	Nickel	9.0	40.0	9.0	ug/L	Ū		1	6010C
7440-09-7	Potassium	4860	5000	167	ug/L	J		1	6010C
7782-49-2	Selenium	4.4	20.0	4.4	ug/L	Ū		1	6010C
7440-22-4	Silver	1.8	10.0	1.8	ug/L	U	-	1	6010C
7440-23-5	Sodium	68200	5000	407	ug/L			1	6010C
7440-28-0	Thallium	7.1	20.0	7.1	ug/L	U		1	6010C
7440-62-2	Vanadium	4.5	50.0	2.5	ug/L	J		1	6010C
7440-66-6	Zinc	9.0	30.0	9.0	ug/L	Ū		1	6010C
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	<u> </u>		1	7470A

Client Sample ID: MW-2S Lab Sample ID: 460-149694-1

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG ID.:

Matrix: Water Date Sampled: 01/31/2018 09:25

Reporting Basis: WET Date Received: 02/06/2018 09:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	91.1	200	91.1	ug/L	U		1	6010C
7440-36-0	Antimony	7.4	20.0	7.4	ug/L	Ū		1	6010C
7440-38-2	Arsenic	4.4	15.0	4.4	ug/L	Ū		1	6010C
7440-39-3	Barium	63.3	200	8.6	ug/L	J		1	6010C
7440-41-7	Beryllium	0.97	2.0	0.97	ug/L	U		1	6010C
7440-43-9	Cadmium	1.8	4.0	1.8	ug/L	Ū		1	6010C
7440-70-2	Calcium	77400	5000	354	ug/L	1		. 1	6010C
7440-47-3	Chromium	3.3	10.0	3.3	ug/L	Ū	-	1	6010C
7440-48-4	Cobalt	3.1	50.0	3.1	ug/L	Ū		1	6010C
7440-50-8	Copper	8.1	25.0	8.1	ug/L	Ü		1	6010C
7439-89-6	Iron	92.1	150	92.1	ug/L	U		1	6010C
7439-92-1	Lead	4.1	10.0	4.1	ug/L	Ū		1	6010C
7439-95-4	Magnesium	156000	5000	311	ug/L	-		1	6010C
7439-96-5	Manganese	3.1	15.0	3.1	ug/L	Ū		1	6010C
7440-02-0	Nickel	9.0	40.0	9.0	ug/L	U		1	6010C
7440-09-7	Potassium	3970	5000	167	ug/L	J		1	6010C
7782-49-2	Selenium	4.4	20.0	4.4	ug/L	Ū		1	6010C
7440-22-4	Silver	1.8	10.0	1.8	ug/L	ט		1	6010C
7440-23-5	Sodium	48100	5000	407	ug/L	-		1	6010C
7440-28-0	Thallium	7.1	20.0	7.1	ug/L	U		1	6010C
7440-62-2	Vanadium	2.5	50.0	2.5	ug/L	U		1	6010C
7440-66-6	Zinc	9.0	30.0	9.0	ug/L	Ü		1	6010C
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	U		1	7470A

Client Sample ID: MW-3 Lab Sample ID: 460-149694-3

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG ID.:

Matrix: Water Date Sampled: 01/31/2018 10:40

Reporting Basis: WET Date Received: 02/06/2018 09:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	91.1	200	91.1	ug/L	Ü		1	6010C
7440-36-0	Antimony	7.4	20.0	7.4	ug/L	ט		1	6010C
7440-38-2	Arsenic	4.4	15.0	4.4	ug/L	Ū		1	6010C
7440-39-3	Barium	20.4	200	8.6	ug/L	J		1	6010C
7440-41-7	Beryllium	0.97	2.0	0.97	ug/L	U		1	6010C
7440-43-9	Cadmium	1.8	4.0	1.8	ug/L	U		1	6010C
7440-70-2	Calcium	72200	5000	354	ug/L	_		1	6010C
7440-47-3	Chromium	3.3	10.0	3.3	ug/L	Ū	-	1	6010C
7440-48-4	Cobalt	3.1	50.0	3.1	ug/L	Ū		1	6010C
7440-50-8	Copper	8.1	25.0	8.1	ug/L	U		1	6010C
7439-89-6	Iron	92.1	150	92.1	ug/L	U		1	6010C
7439-92-1	Lead	4.1	10.0	4.1	ug/L	U		1	6010C
7439-95-4	Magnesium	175000	5000	311	ug/L			1	6010C
7439-96-5	Manganese	. 25.3	15.0	3.1	ug/L			1	6010C
7440-02-0	Nickel	9.0	40.0	9.0	ug/L	U		1	6010C
7440-09-7	Potassium	4560	5000	167	ug/L	J	-	1	6010C
7782-49-2	Selenium	4.4	20.0	4.4	ug/L	U		1	6010C
7440-22-4	Silver	1.8	10.0	1.8	ug/L	Ü		1	6010C
7440-23-5	Sodium	91800	5000	407	ug/L			1	6010C
7440-28-0	Thallium	7.1	20.0	7.1	ug/L	ט		1	6010C
7440-62-2	Vanadium	2.5	50.0	2.5	ug/L	U		1	6010C
7440-66-6	Zinc	9.0	30.0	9.0	ug/L	U	-	1	6010C
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	U	-	1	7470A

Client Sample ID: MW-4S

Lab Sample ID: 460-149694-4

Lab Name: TestAmerica Edison

Job No.: 460-149694-1

SDG ID.:

Matrix: Water

Date Sampled: 01/31/2018 13:52

Reporting Basis: WET

Date Received: 02/06/2018 09:20

CAS No.	Analyte	Result	RL	MDL	Units	C,	Q	DIL	Method
7429-90-5	Aluminum	91.1	200	91.1	ug/L	U		. 1	6010C
7440-36-0	Antimony	7.4	20.0	7.4	ug/L	U		1	6010C
7440-38-2	Arsenic	4.4	15.0	4.4	ug/L	U	-	1	6010C
7440-39-3	Barium	62.0	200	8.6	ug/L	J		1	6010C
7440-41-7	Beryllium	0.97	2.0	0.97	ug/L	U		1	6010C
7440-43-9	Cadmium	1.8	4.0	1.8	ug/L	Ū		1	6010C
7440-70-2	Calcium	80100	5000	354	ug/L			1	6010C
7440-47-3	Chromium	3.3	10.0	3.3	ug/L	ט		1	6010C
7440-48-4	Cobalt	3.1	50.0	3.1	ug/L	U		1	6010C
7440-50-8	Copper	8.1	25.0	8.1	ug/L	Ū		1	6010C
7439-89-6	Iron	1370	150	92.1	ug/L			1	6010C
7439-92-1	Lead	4.1	10.0	4.1	ug/L	Ū		1	6010C
7439-95-4	Magnesium	172000	5000	311	ug/L			1	6010C
7439-96-5	Manganese	97.8	15.0	3.1	ug/L			1	6010C
7440-02-0	Nickel	9.0	40.0	9.0	ug/L	ט		1	6010C
7440-09-7	Potassium	4910	5000	167	ug/L	J		1	6010C
7782-49-2	Selenium	4.4	20.0	4.4	ug/L	Ū	+	1	6010C
7440-22-4	Silver	1.8	10.0	1.8	ug/L	U		1	6010C
7440-23-5	Sodium	55800	5000	407	ug/L			1	6010C
7440-28-0	Thallium	7.1	20.0	7.1	ug/L	U		1	6010C
7440-62-2	Vanadium	2.5	50.0	2.5	ug/L	U		1	6010C
7440-66-6	Zinc	9.0	30.0	9.0	ug/L	U		1	6010C
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	U		1	7470A

Client Sample ID: MW-5-01

Lab Sample ID: 460-149694-6

Lab Name: TestAmerica Edison

Job No.: 460-149694-1

SDG ID.:

Matrix: Water

Date Sampled: 01/29/2018 16:30

Reporting Basis: WET

Date Received: 02/06/2018 09:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	91.1	200	91.1	ug/L	Ū		1	6010C
7440-36-0	Antimony	7.4	20.0	7.4	ug/L	Ū		1	6010C
7440-38-2	Arsenic	4.4	15.0	4.4	ug/L	ט		1	6010C
7440-39-3	Barium	104	200	8.6	ug/L	J		1	6010C
7440-41-7	Beryllium	0.97	2.0	0.97	ug/L	Ū		1	6010C
7440-43-9	Cadmium	1.8	4.0	1.8	ug/L	Ū		1	6010C
7440-70-2	Calcium	90700	5000	354	ug/L	-		1	6010C
7440-47-3	Chromium	3.3	10.0	3.3	ug/L	Ū		1	6010C
7440-48-4	Cobalt	3.1	50.0	3.1	ug/L	Ū		1	6010C
7440-50-8	Copper	8.1	25.0	8.1	ug/L	Ū	-	1	6010C
7439-89-6	Iron	92.1	150	92.1	ug/L	Ū	+	1	6010C
7439-92-1	Lead	4.1	10.0	4.1	ug/L	Ū		1	6010C
7439-95-4	Magnesium	130000	5000	311	ug/L			1	6010C
7439-96-5	Manganese	95.7	15.0	3.1	ug/L			1	6010C
7440-02-0	Nickel	9.0	40.0	9.0	ug/L	Ū		1	6010C
7440-09-7	Potassium	3940	5000	167	ug/L	J		1	6010C
7782-49-2	Selenium	4.4	20.0	4.4	ug/L	Ū		1	6010C
7440-22-4	Silver	1.8	10.0	1.8	ug/L	U		1	6010C
7440-23-5	Sodium	44500	5000	407	ug/L			. 1	6010C
7440-28-0	Thallium	7.1	20.0	7.1	ug/L	Ū		1	6010C
7440-62-2	Vanadium	5.3	50.0	2.5	ug/L	J		1	6010C
7440-66-6	Zinc	9.0	30.0	9.0	ug/L	U		1	6010C
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	U		1	7470A



Client Sample ID: Duplicate

Lab Sample ID: 460-149694-10

Lab Name: TestAmerica Edison

SDG ID.:

Matrix: Water Date Sampled: 01/29/2018 09:00

Reporting Basis: WET Date Received: 02/06/2018 09:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	91.1	200	91.1	ug/L	U		1	6010C
7440-36-0	Antimony	7.4	20.0	7.4	ug/L	Ū		1	6010C
7440-38-2	Arsenic	4.4	15.0	4.4	ug/L	U		1	6010C
7440-39-3	Barium	99.7	200	8.6	ug/L	J		1	6010C
7440-41-7	Beryllium	0.97	2.0	0.97	ug/L	Ū		1	6010C
7440-43-9	Cadmium	1.8	4.0	1.8	ug/L	Ū .		1	6010C
7440-70-2	Calcium	86900	5000	354	ug/L			1	6010C
7440-47-3	Chromium	3.3	10.0	3.3	ug/L	U		1	6010C
7440-48-4	Cobalt	3.1	50.0	3.1	ug/L	ט		1	6010C
7440-50-8	Copper	8.1	25.0	8.1	ug/L	U		1	6010C
7439-89-6	Iron	92.1	150	92.1	ug/L	Ū		1	6010C
7439-92-1	Lead	4.1	10.0	4.1	ug/L	Ū		1	6010C
7439-95-4	Magnesium	124000	5000	311	ug/L			1	6010C
7439-96-5	Manganese	91.1	15.0	3.1	ug/L			1	6010C
7440-02-0	Nickel	9.0	40.0	9.0	ug/L	Ū		1	6010C
7440-09-7	Potassium	3840	5000	167	ug/L	Ĵ		1	6010C
7782-49-2	Selenium	4.4	20.0	4.4	ug/L	U		1	6010C
7440-22-4	Silver	1.8	10.0	1.8	ug/L	U		1	6010C
440-23-5	Sodium	42900	5000	407	ug/L			1	6010C
440-28-0	Thallium	7.1	20.0	7.1	ug/L	ט		1	6010C
440-62-2	Vanadium	5.3	50.0	2.5	ug/L	J		1	6010C
440-66-6	Zinc	9.0	30.0	9.0	ug/L	ט		1	6010C
439-97-6	Mercury	0.17	0,20	0.17	ug/L	U		1	7470A



Client Sample ID: MW-5-02 Lab Sample ID: 460-149694-7

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG ID.:

Matrix: Water Date Sampled: 01/31/2018 12:15

Reporting Basis: WET Date Received: 02/06/2018 09:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	91.1	200	91.1	ug/L	U		1	6010C
7440-36-0	Antimony	7.4	20.0	7.4	ug/L	Ū		1	6010C
7440-38-2	Arsenic	4.4	15.0	4.4	ug/L	Ū		1	6010C
7440-39-3	Barium	37.9	200	8.6	ug/L	J		1	6010C
7440-41-7	Beryllium	0.97	2.0	0.97	ug/L	Ū		1	6010C
7440-43-9	Cadmium	1.8	4.0	1.8	ug/L	Ū		1	6010C
7440-70-2	Calcium	85200	5000	354	ug/L	<u> </u>		1	6010C
7440-47-3	Chromium	3.3	10.0	3.3	ug/L	Ū		. 1	6010C
7440-48-4	Cobalt	3.1	50.0	3.1	ug/L	Ū		1	6010C
7440-50-8	Copper	8.1	25.0	8.1	ug/L	ט		1	6010C
7439-89-6	Iron	92.1	150	92.1	ug/L	U		1	6010C
7439-92-1	Lead	4.1	10.0	4.1	ug/L	ט		1	6010C
7439-95-4	Magnesium	162000	5000	311	ug/L			1	6010C
7439-96-5	Manganese	89.8	15.0	3.1	ug/L		-	1	6010C
7440-02-0	Nickel	9.0	40.0	9.0	ug/L	Ū		1	6010C
7440-09-7	Potassium	4470	5000	167	ug/L	J		1	6010C
7782-49-2	Selenium	4.4	20.0	4.4	ug/L	Ū		1	6010C
7440-22-4	Silver	1.8	10.0	1.8	ug/L	Ū		1	6010C
7440-23-5	Sodium	58400	5000	407	ug/L			1	6010C
7440-28-0	Thallium	7.1	20.0	7.1	ug/L	U		1	6010C
7440-62-2	Vanadium	4.6	50.0	2.5	ug/L	J		1	6010C
7440-66-6	Zinc	9.0	30.0	9.0	ug/L	Ū		1	6010C
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	Ü	-	1	7470A

Client Sample ID: MW-5-03

Lab Sample ID: 460-149694-8

Lab Name: TestAmerica Edison

Job No.: 460-149694-1

SDG ID.:

Matrix: Water

Date Sampled: 01/29/2018 15:35

Reporting Basis: WET

Date Received: 02/06/2018 09:20

CAS No.	Analyte	Result	RL	MDL	Units	c ·	Q	DIL	Method
7429-90-5	Aluminum	91.1	200	91.1	ug/L	Ū		1	6010C
7440-36-0	Antimony	7.4	20.0	7.4	ug/L	U		1	6010C
7440-38-2	Arsenic	4.4	15.0	4.4	ug/L	Ū		1	6010C
7440-39-3	Barium	27.0	200	8.6	ug/L	J		1	6010C
7440-41-7	Beryllium	0.97	2.0	0.97	ug/L	Ū		1	6010C
7440-43-9	Cadmium	1.8	4.0	1.8	ug/L	U		1	6010C
7440-70-2	Calcium	405000	5000	354	ug/L			1	6010C
7440-47-3	Chromium	3.3	10.0	3.3	ug/L	Ū		1	6010C
7440-48-4	Cobalt	3.1	50.0	3.1	ug/L	Ū		1	6010C
7440-50-8	Copper	8.4	25.0	8.1	ug/L	J		1	6010C
7439-89-6	Iron	92.1	150	92.1	ug/L	Ū		1	6010C
7439-92-1	Lead	4.1	10.0	4.1	ug/L	ט	-	1	6010C
7439-95-4	Magnesium	42700	5000	311	ug/L			1	6010C
7439-96-5	Manganese	32.4	15.0	3.1	ug/L			1	6010C
7440-02-0	Nickel	9.0	40.0	9.0	ug/L	Ū		1	6010C
7440-09-7	Potassium	4930	5000	167	ug/L	J		1	6010C
7782-49-2	Selenium	4.4	20.0	4.4	ug/L	Ū	-	1	6010C
7440-22-4	Silver	1.8	10.0	1.8	ug/L	U	+	1	6010C
7440-23-5	Sodium	42800	5000	407	ug/L			1	6010C
7440-28-0	Thallium	7.1	20.0	7.1	ug/L	U		1	6010C
7440-62-2	Vanadium	17.7	50.0	2.5	ug/L	J	+	1	6010C
7440-66-6	Zinc	9.0	30.0	9.0	ug/L	U	-	1	6010C
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	U	-	1	7470A

Client Sample ID: MW-5-04

Lab Sample ID: 460-149694-9

Lab Name: TestAmerica Edison

Job No.: 460-149694-1

SDG ID.:

Matrix: Water

Date Sampled: 02/01/2018 09:55

Reporting Basis: WET

Date Received: 02/06/2018 09:20

CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method
7429-90-5	Aluminum	91.1	200	91.1	ug/L	Ū		1	6010C
7440-36-0	Antimony	7.4	20.0	7.4	ug/L	Ū	+	1	6010C
7440-38-2	Arsenic	4.4	15.0	4.4	ug/L	ט		1	6010C
7440-39-3	Barium	170	200	8.6	ug/L	J	+	1	6010C
7440-41-7	Beryllium	0.97	2.0	0.97	ug/L	U		1	6010C
7440-43-9	Cadmium	1.8	4.0	1.8	ug/L	U		1	6010C
7440-70-2	Calcium	170000	5000	354	ug/L	 		1	6010C
7440-47-3	Chromium	3.3	10.0	3.3	ug/L	Ū		i	6010C
7440-48-4	Cobalt	3.5	50.0	3.1	ug/L	J		1	6010C
7440-50-8	Copper	8.1	25.0	8.1	ug/L	Ū		1	6010C
7439-89-6	Iron	761	150	92.1	ug/L			1	6010C
7439-92-1	Lead	4.1	10.0	4.1	ug/L	ט		1	6010C
7439-95-4	Magnesium	52500	5000	311	ug/L			1	6010C
7439-96-5	Manganese	1500	15.0	3.1	ug/L			1	6010C
7440-02-0	Nickel	14.6	40.0	9.0	ug/L	J	_	1	6010C
7440-09-7	Potassium	2640	5000	167	ug/L	J		1	6010C
7782-49-2	Selenium	4.4	20.0	4.4	ug/L	Ū.		1	6010C
7440-22-4	Silver	1.8	10.0	1.8	ug/L	U		1	6010C
7440-23-5	Sodium	25900	5000	407	ug/L			1	6010C
7440-28-0	Thallium	7.1	20.0	7.1	ug/L	Ū		1	6010C
7440-62-2	Vanadium	2.5	50.0	2.5	ug/L	Ū	-	1	6010C
7440-66-6	Zinc	9.0	30.0	9.0	ug/L	Ū		1	6010C
7439-97-6	Mercury	0.17	0.20	0.17	ug/L	U		1	7470A

APPENDIX B SUPPORT DOCUMENTATION

10 Hazelubod Drive

Chain of Custody Record

71C1OT

TestAmerica	THE LEADER IN ENVIRONMENTAL TESTING TestAmerica Laboratories. Inc.	TAL-8210 (0713)	COC No:	of	ılı	For Lab Use Only: Walk-in Client:	Lab Sampling:	Job / SDG No.: / ,	144090) 1 6 1 1 1	CAS +MSD - E-Jen a		Ment Jalos (Long Jana		for all soundes		70	19	9		or in-corner		ted longer than 1 month)	Months	de	17	Therm ID No.:	Descring 1/2 1/2 /	15	0
tody Record 10/3/2			Site Contact: Any Monz Kanif Date:	"	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	701			500	109										460-149694 Chain of Clietods			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	Return to Client	Edwar NI. Am 9	or by others. (26)	oler Temp. (*C): Obs/d: Corrd:	MINIMA COMPANY	ave Charles Company	Received in Laboratory by:
Chain of Custody Record]	. Upw NPDES	WETCHEYS	9	Analysis Turnaround Time	fom B		Y) eld		Sample (Cocomp.) Hatrix Cont Cont. Cont.	2270	1445 G MO 6 YM3 2	1840 6 420 6 VINS	5 7 9		Con Ho	1215 G H.D (0 4W37	1535 6 140 0 11 3	955 C 40 6 YN3	H20 6	420 - NE	4 v.		Unknown	test knowed Site	noris, Knoporible @ accomicom		Date/Πμε: 2/2/1/3	S Date Tings, 120 Receipe	Date/Time: Received
10 Mazelwood Orive	Phone: 716.691.2688 Fax: 716.691.7991			Tel/Fax:	5- Shite 400	18: (744) PSG - Sto Rt	Project Name: And Among Tree 75	- RD Tensman NY	C 2442	Sample Identification Date	8/1s/1 52- MW	MW-2D	81/12/1	Mev-45	MW -41)	1712-5-01 1/20 18/18/16/18	1/2/12 - S-02	12918	MW-5-04	Murchicato 1/20/18	Trip Black	Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification:	Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.	Non-Hazard Sammable Skin Irritant Poison B	& Comments: Sk.	Am I Tank Anglowale by emand: annimant	Intact: Tres INo	Emil an	Minu Ho	Relinquished by:

That 11 414 CSO1347

CASE NARRATIVE

Client: AECOM, Inc.

Project: Ashland Buffalo Tank 75

Report Number: 460-149694-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 2/6/2018 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 4.4° C.

Receipt Exceptions

Per laboratory policy the Trip Blank sample date/time was changed to reflect the latest sample date/time of the sampling event.

Limited sample volume was provided for the following sample for the VOC analysis: Sample #11. Received only one vial for Trip Blank.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-2S (460-149694-1), MW-2D (460-149694-2), MW-3 (460-149694-3), MW-4S (460-149694-4), MW-4D (460-149694-5), MW-5-01 (460-149694-6), MW-5-02 (460-149694-7), MW-5-03 (460-149694-8), MW-5-04 (460-149694-9), Duplicate (460-149694-10) and Trip Blank (460-149694-11) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 02/07/2018 and 02/08/2018.

The continuing calibration verification (CCV) analyzed in batch 460-495680 was outside the method criteria for the following analytes: Bromoform, Carbon tetrachloride(biased low) and Methyl acetate(biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes are considered estimated.

The laboratory control sample (LCS) for analytical batch 460-495680 recovered outside control limits for the following analyte: Methyl tert-butyl ether. This analytes was not detected in the associated samples; therefore, the data have been reported.

Methyl tert-butyl ether failed the recovery criteria low for LCS 460-495680/5. Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS of sample MW-2SMS (460-149694-1) in batch 460-495680.

Chlorodibromomethane and trans-1,3-Dichloropropene failed the recovery criteria low for the MSD of sample MW-2SMSD (460-149694-1) in batch 460-495680. Chloroethane failed the recovery criteria high.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples MW-2S (460-149694-1), MW-2D (460-149694-2), MW-3 (460-149694-3), MW-4S (460-149694-4), MW-4D (460-149694-5), MW-5-01 (460-149694-6), MW-5-02 (460-149694-7), MW-5-03 (460-149694-8), MW-5-04 (460-149694-9) and Duplicate (460-149694-10) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 02/06/2018 and 02/08/2018 and analyzed on 02/07/2018 and 02/08/2018.

The continuing calibration verification (CCV) associated with batch 460-495410 recovered above the upper control limit for Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for preparation batch 460-495833 and analytical batch 460-495912 recovered outside control limits for the following analyte: Benzaldehyde. The analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for preparation batch 460-495833 and analytical batch 460-495912 recovered outside control limits for the following analytes: 2,4-Dinitrotoluene and Nitrobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Samples were received and analyzed out of hold: MW-5-01 (460-149694-6) and Duplicate (460-149694-10).

Sample was received out of hold: MW-5-03 (460-149694-8).

2,4-Dinitrotoluene and Nitrobenzene failed the recovery criteria high for LCS 460-495833/2-A. Benzaldehyde failed the recovery criteria high for LCSD 460-495833/5-A. Refer to the QC report for details.

3-Nitroaniline failed the recovery criteria low for the MS of sample MW-2SMS (460-149694-1) in batch 460-495410.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples MW-2S (460-149694-1), MW-2D (460-149694-2), MW-3 (460-149694-3), MW-4S (460-149694-4), MW-4D (460-149694-5), MW-5-01 (460-149694-6), MW-5-02 (460-149694-7), MW-5-03 (460-149694-8), MW-5-04 (460-149694-9) and Duplicate (460-149694-10) were analyzed for Dissolved Metals (ICP) in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 02/15/2018 and analyzed on 02/18/2018.

No other difficulties were encountered during the Dissolved Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY

Samples MW-2S (460-149694-1), MW-2D (460-149694-2), MW-3 (460-149694-3), MW-4S (460-149694-4), MW-4D (460-149694-5), MW-5-01 (460-149694-6), MW-5-02 (460-149694-7), MW-5-03 (460-149694-8), MW-5-04 (460-149694-9) and Duplicate (460-149694-10) were analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 02/07/2018 and 02/08/2018.

No difficulties were encountered during the dissolved Hg analysis.

All quality control parameters were within the acceptance limits.

FORM IV GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Lab File ID: N62972.D

Lab Sample ID: MB 460-495680/9

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: CVOAMS11

Date Analyzed: 02/07/2018 20:32

GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

*				
•		LAB		
CLIENT SAMPLE ID	LAB SAMPLE ID	FILE ID	DATE ANALYZEI	D
	LCS 460-495680/5	N62968.D	02/07/2018 19	00:0
MW-2S	460-149694-1	N62977.D	02/07/2018 22	2:29
MW-2D	460-149694-2	N62978.D	02/07/2018 22	2:52
MW-3	460-149694-3	N62979.D	02/07/2018 23	3:15
MW-4S	460-149694-4	N62980.D	02/07/2018 23	3:38
MW-4D	460-149694-5	N62981.D	02/08/2018 00	0:01
MW-5-01	460-149694-6	N62982.D	02/08/2018 00	:24
MW-5-02	460-149694-7	N62983.D	02/08/2018 00	:47
MW-5-03	460-149694-8	N62984.D		:10
MW-5-04	460-149694-9	N62985.D		:33
Duplicate	460-149694-10	N62986.D		:56
Trip Blank	460-149694-11	N62987.D		:19
MW-2S MS	460-149694-1 MS	N62988.D		:41
MW-2S MSD	460-149694-1 MSD	N62989.D		:04

FORM III GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N62968.D

Lab ID: LCS 460-495680/5 Client ID:

	SPIKE ADDED	LCS CONCENTRATION	LCS	QC LIMITS	#
COMPOUND	(ug/L)	(ug/L)	REC	REC	π
1,1,1-Trichloroethane	20.0	16.7	84	75-125	
1,1,2,2-Tetrachloroethane	20.0	19.9	100		
1,1,2-Trichloro-1,2,2-trifluor	20.0	17.9	89		
oethane				33 130	
1,1,2-Trichloroethane	20.0	18.2	91	78-120	
1,1-Dichloroethane	20.0	18.6	93	77-123	
1,1-Dichloroethene	20.0	17.5	87	74-123	
1,2,3-Trichlorobenzene	20.0	15.7	79	78-131	
1,2,4-Trichlorobenzene	20.0	16.7	84	80-124	
1,2-Dibromo-3-Chloropropane	20.0	12.0	60	55-134	
1,2-Dichlorobenzene	20.0	19.5	97	80-120	
1,2-Dichloroethane	20.0	17.0	85	76-121	
1,2-Dichloropropane	20.0	17.5	88	77-123	
1,3-Dichlorobenzene	20.0	21.2	106	80-120	
1,4-Dichlorobenzene	20.0	20.6	103	80-120	
1,4-Dioxane	400	518	129	10-150	
2-Butanone (MEK)	100	85.6	86	64-120	
2-Hexanone	100	82.7	83	71-125	
4-Methyl-2-pentanone (MIBK)	100	91.6	92	78-124	
Acetone	100	71.0	71	39-150	
Benzene	20.0	21.0	105	77-121	
Bromoform	20.0	14.4	72	53-120	
Bromomethane	20.0	26.6	133	10-150	
Carbon disulfide	20.0	17.3	87	69-133	
Carbon tetrachloride	20.0	14.9	74	70-132	
Chlorobenzene	20.0	19.9	99	80-120	
Chlorobromomethane	20.0	15.5	77	77-127	
Chlorodibromomethane	20.0	15.2	76	73-120	
Chloroethane	20.0	26.0	130	52-150	
Chloroform	20.0	18.4	92	80-120	
Chloromethane	20.0	18.6	93	56-131	
cis-1,2-Dichloroethene	20.0	18.3	91	80-120	
cis-1,3-Dichloropropene	20.0	17.0	8.5	77-120	
Cyclohexane	20.0	17.4	87	56-150	
Dichlorobromomethane	20.0	16.4	82	76-120	
Dichlorodifluoromethane	20.0	17.1	86	50-131	
Ethylbenzene	20.0	20.1	100	80-120	
Ethylene Dibromide	20.0	17.3	87	80-120	
Isopropylbenzene	20.0	19.9	99	80-123	
Methyl acetate	100	122	122	66-144	
Methyl tert-butyl ether	20.0	15.2	76	79-122	*
Methylcyclohexane	20.0	16.9	85	61-145	

[#] Column to be used to flag recovery and RPD values
FORM III 8260C

FORM V GC/MS VOA INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Lab File ID: N62964.D BFB Injection Date: 02/07/2018

Instrument ID: CVOAMS11 BFB Injection Time: 17:27

Analysis Batch No.: 495680

M/E	ION ABUNDANCE CRITERIA		LATIVE NDANCE
50	15.0 - 40.0 % of mass 95	19.7	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	62.1	
175	5.0 - 9.0 % of mass 174	4.5	(7.2) 1
176	95.0 - 101.0 % of mass 174	59.7	(96.2) 1
177	5.0 - 9.0 % of mass 176	3.8	(6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-495680/4	N62967.D	02/07/2018	18:37
	LCS 460-495680/5	N62968.D	02/07/2018	19:00
	MB 460-495680/9	N62972.D	02/07/2018	20:32
MW-2S	460-149694-1	N62977.D	02/07/2018	22:29
MW-2D	460-149694-2	N62978.D	02/07/2018	22:52
MW-3	460-149694-3	N62979.D	02/07/2018	23:15
MW-4S	460-149694-4	N62980.D	02/07/2018	23:38
MW-4D	460-149694-5	N62981.D	02/08/2018	00:01
MW-5-01	460-149694-6	N62982.D	02/08/2018	00:24
MW-5-02	460-149694-7	N62983.D	02/08/2018	00:47
MW-5-03	460-149694-8	N62984.D	02/08/2018	01:10
MW-5-04	460-149694-9	N62985.D	02/08/2018	01:33
Duplicate	460-149694-10	N62986.D	02/08/2018	01:56
Trip Blank	460-149694-11	N62987.D	02/08/2018	02:19
MW-2S MS	460-149694-1 MS	N62988.D	02/08/2018	02:41
MW-2S MSD	460-149694-1 MSD	N62989.D	02/08/2018	03:04

FORM VII GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Lab Sample ID: CCVIS 460-495680/4 Calibration Date: 02/07/2018 18:37

Instrument ID: CVOAMS11 Calib Start Date: 01/26/2018 10:56

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/26/2018 13:15

Lab File ID: N62967.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.1711	0.1259		14.7	20.0	-26.4*	20.0
Propionitrile	Ave	1.277	1.632		256	200	27.8*	20.0
Chlorobromomethane	Ave	0.1482	0.1270		17.1	20.0	-14.3	20.0
Tetrahydrofuran	Ave	0.3800	0.3452		36.3	40.0	-9.2	20.0
Methacrylonitrile	Ave	0.0815	0.0729		179	200	-10.6	20.0
Chloroform	Ave	0.5344	0.5086	0.2000	19.0	20.0	-4.8	20.0
Cyclohexane	Ave	0.5111	0.4722	0.1000	18.5	20.0	-7.6	50.0
1,1,1-Trichloroethane	Ave	0.4970	0.4322	0.1000	17.4	20.0	-13.1	20.0
Carbon tetrachloride	Ave	0.3653	0.2800	0.1000	15.3	20.0	(-23.4*) 20.0
1,1-Dichloropropene	Ave	0.4198	0.3752	-	17.9	20.0	-10.6	20.0
2,2,4-Trimethylpentane	Ave	0.7654	0.6580		17.2	20.0	-14.0	20.0
Benzene	Ave	1.497	1.587	0.5000	21.2	20.0	6.0	20.0
Isobutyl alcohol	Ave	0.6591	1.844		1400	500	179.7*	50.0
Isopropyl acetate	Ave	0.7054	0.5779		16.4	20.0	-18.1	20.0
Tert-amyl methyl ether	Ave	1.020	0.8148		16.0	20.0	-20.1*	20.0
1,2-Dichloroethane	Ave	0.3758	0.3321	0.1000	17.7	20.0	-11.6	20.0
n-Heptane	Ave	0.1760	0.1559		17.7	20.0	-11.4	20.0
Trichloroethene	Ave	0.3050	0.2813	0.2000	18.4	20.0	-7.8	20.0
Methylcyclohexane	Ave	0.5281	0.4711	0.1000	17.8	20.0	-10.8	50.0
n-Butanol	Ave	0.2080	0.5101		1230	500	145.2*	50.0
Ethyl acrylate	Ave	0.6271	0.5346		17.1	20.0	-14.7	20.0
1,2-Dichloropropane	Ave	0.3115	0.2788	0.1000	17.9	20.0	-10.5	20.0
Methyl methacrylate	Ave	0.0614	0.0441		28.7	40.0	-28.2*	20.0
1,4-Dioxane	Ave	0.9195	1.254		545	400	36.3	50.0
Dibromomethane	Ave	0.1562	0.1383		17.7	20.0	-11.5	20.0
n-Propyl acetate	Ave	0.2808	0.2122		15.1	20.0	-24.4*	20.0
Dichlorobromomethane	Ave	0.3517	0.2957	0.2000	16.8	20.0	-15.9	20.0
2-Nitropropane	Ave	2.621	1.566		23.9	40.0	-40.3*	20.0
2-Chloroethyl vinyl ether	Ave	0.1550	0.1136		14.7	20.0	-26.7*	20.0
Epichlorohydrin	Ave	0.2621	0.2372		362	400	-9.5	20.0
cis-1,3-Dichloropropene	Ave	0.5941	0.5281	0.2000	17.8	20.0	-11.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.928	2.784	0.0500	95.1	100	-4.9	50.0
Toluene	Ave	1.593	1.624	0.4000	20.4	20.0	1.9	20.0
trans-1,3-Dichloropropene	Ave	0.4990	0.3967	0.1000	15.9	20.0	-20.5	50.0
Ethyl methacrylate	Ave	0.3218	0.2306		14.3	20.0	-28.3*	20.0
1,1,2-Trichloroethane	Ave	0.2339	0.2284	0.1000	19.5	20.0	-2.4	20.0
Tetrachloroethene	Ave	0.3538	0.3146	0.2000	17.8	20.0	-11.1	20.0
1,3-Dichloropropane	Ave	0.4930	0.4707		19.1	20.0	-4.5	20.0
2-Hexanone	Ave	1.132	0.9712	0.0500	85.8	100	-14.2	50.0
n-Butyl acetate	Ave	0.3891	0.3153		16.2	20.0	-19.0	20.0
Chlorodibromomethane	Ave	0.2427	0.1868	0.1000	15.4	20.0	-23.0	50.0

FORM VII GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Lab Sample ID: CCVIS 460-495680/4 Calibration Date: 02/07/2018 18:37

Instrument ID: CVOAMS11 Calib Start Date: 01/26/2018 10:56

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/26/2018 13:15

Lab File ID: N62967.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	용D	MAX %D
Ethylene Dibromide	Ave	0.2559	0.2304	0.1000	18.0	20.0	-10.0	20.0
Chlorobenzene	Ave	0.9927	0.9936	0.5000	20.0	20.0	0.0	20.0
Ethylbenzene	Ave	0.5620	0.5629	0.1000	20.0	20.0	0.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3212	0.2621		16.3	20.0	-18.4	20.0
m-Xylene & p-Xylene	Ave	0.6899	0.6859	0.1000	19.9	20.0	-0.6	20.0
o-Xylene	Ave	0.6942	0.6814	0.3000	19.6	20.0	-1.8	20.0
n-Butyl acrylate	Ave	0.2452	0.1894		15.4	20.0	-22.8*	20.0
Styrene	Ave	1.109	1.116	0.3000	20.1	20.0	0.6	20.0
Bromoform	Qua2		0.1564	0.1000	15.3	20.0	-23.3*	20.0
Amyl acetate (mixed isomers)	Ave	1.019	0.8427		16.5	20.0	-17.3	20.0
Isopropylbenzene	Ave	1.747	1.781	0.1000	20.4	20.0	2.0	20.0
Bromobenzene	Ave	0.7816	0.7785		19.9	20.0	-0.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5827	0.6192	0.3000	21.3	20.0	6.3	20.0
N-Propylbenzene	Ave	3.851	4.364		22.7	20.0	13.3	20.0
1,2,3-Trichloropropane	Ave	0.1815	0.1692		18.6	20.0	-6.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1378	0.1160		16.8	20.0	-15.8	20.0
2-Chlorotoluene	Ave	2.696	3.128		23.2	20.0	16.0	20.0
4-Ethyltoluene	Ave	3.151	3.558		22.6	20.0	12.9	20.0
1,3,5-Trimethylbenzene	Ave	2.881	3.085		21.4	20.0	7.1	20.0
4-Chlorotoluene	Ave	2.517	2.830		22.5	20.0	12.4	20.0
Butyl Methacrylate	Ave	0.9789	0.8171		16.7	20.0	-16.5	20.0
tert-Butylbenzene	Ave	2.274	2.387		21.0	20.0	4.9	20.0
1,2,4-Trimethylbenzene	Ave	2.964	3.306		22.3	20.0	11.5	20.0
sec-Butylbenzene	Ave	3.432	3.637		21.2	20.0	6.0	20.0
1,3-Dichlorobenzene	Ave	1.433	1.542	0.6000	21.5	20.0	7.6	20.0
4-Isopropyltoluene	Ave	2.868	3.096		21.6	20.0	8.0	20.0
1,4-Dichlorobenzene	Ave	1.480	1.548	0.5000	20.9	20.0	4.6	20.0
1,2,3-Trimethylbenzene	Ave	3.053	3.414		22.4	20.0	11.8	20.0
Benzyl chloride	Ave	1.284	0.6215		9.68	20.0	-51.6*	50.0
Indan	Ave	2.835	3.110		21.9	20.0	9.7	20.0
p-Diethylbenzene	Ave	1.583	1.695		21.4	20.0	7.1	20.0
n-Butylbenzene	Ave	1.464	1.634		22.3	20.0	11.6	20.0
1,2-Dichlorobenzene	Ave	1.416	1.439	0.4000	20.3	20.0	1.6	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.036	3.090		20.4	20.0	1.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0812	0.0565	0.0500	13.9	20.0	(-30.4)	50.0
1,3,5-Trichlorobenzene	Ave	1.084	1.011		18.7	20.0	-6.7	20.0
1,2,4-Trichlorobenzene	Ave	1.007	0.8900	0.2000	17.7	20.0	-11.6	20.0
Hexachlorobutadiene	Ave	0.3399	0.2640		15.5	20.0	-22.3*	20.0
Naphthalene	Ave	2.080	1.877		18.1	20.0	-9.7	50.0
1,2,3-Trichlorobenzene	Ave	0.8379	0.7415		17.7	20.0	-11.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2703	0.2522		46.7	50.0	-6.7	20.0

FORM VII GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Lab Sample ID: CCVIS 460-495680/4 Calibration Date: 02/07/2018 18:37

Instrument ID: CVOAMS11 Calib Start Date: 01/26/2018 10:56

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 01/26/2018 13:15

Lab File ID: N62967.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0709	0.0669		18.9	20.0	-5.7	20.0
Dichlorodifluoromethane	Ave	0.5115	0.4545	0.1000	17.8	20.0	-11.2	20.0
Chloromethane ·	Ave	0.2539	0.2532	0.1000	19.9	20.0	-0.3	20.0
Butadiene	Ave	0.2305	0.2354		20.4	20.0	2.1	20.0
Vinyl chloride	Ave	0.3008	0.3077	0.1000	20.5	20.0	2.3	20.0
Bromomethane	Ave	0.1616	0.2245	0.1000	27.8	20.0	39.0	50.0
Chloroethane	Ave	0.1463	0.2132	0.1000	29.1	20.0	45.7	50.0
Dichlorofluoromethane	Ave	0.6300	0.5804		18.4	20.0	-7.9	20.0
Trichlorofluoromethane	Ave	0.5227	0.4819	0.1000	18.4	20.0	-7.8	20.0
Pentane	Lin2		4.188		62.1	40.0	55.2*	20.0
Ethanol	Ave	0.0412	0.0499		968	800	21.0	50.0
Ethyl ether	Ave	0.2305	0.2038		17.7	20.0	-11.6	20.0
2-Methyl-1,3-butadiene	Ave	0.2548	0.2459		19.3	20.0	-3.5	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2764	0.2540		18.4	20.0	-8.1	20.0
Acroleín	Ave	1.253	1.870		59.7	40.0	49.2	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.3294	0.3102	0.1000	18.8	20.0	-5.8	20.0
1,1-Dichloroethene	Ave	0.2921	0.2668	0.1000	18.3	20.0	-8.7	20.0
Acetone	QuaF		0.7042	0.0500	76.4	100	-23.6	50.0
Iodomethane	Ave	0.5128	0.4280		16.7	20.0	-16.5	20.0
Isopropyl alcohol	Ave	0.5113	0.3823		150	200	-25.2	50.0
Carbon disulfide	Ave	1.012	0.9124	0.1000	18.0	20.0	-9.8	50.0
Allyl chloride	Ave	0.1910	0.1636		17.1	20.0	-14.4	20.0
Methyl acetate	Ave	1.702	2.061	0.1000	121	100	21.1*	20.0
Cyclopentene	Ave	0.7014	0.6909		19.7	20.0	-1.5	20.0
Acetonitrile	Ave	1.262	1.255		199	200	-0.5	20.0
Methylene Chloride	Ave	0.3287	0.3073	0.1000	18.7	20.0	-6.5	20.0
2-Methyl-2-propanol	Ave	1.209	1.074		178	200	-11.2	50.0
Methyl tert-butyl ether	Ave	0.8730	0.7284	0.1000	16.7	20.0	-16.6	20.0
trans-1,2-Dichloroethene	Ave	0.3134	0.2871	0.1000	18.3	20.0	-8.4	20.0
Acrylonitrile	Ave	3.420	4.534		265	200	32.6*	20.0
Hexane	Ave	0.3923	0.3621		18.5	20.0	-7.7	20.0
Isopropyl ether	Ave	1.004	0.9297		18.5	20.0	-7.4	20.0
1,1-Dichloroethane	Ave	0.5443	0.5210	0.2000	19.1	20.0	-4.3	20.0
Vinyl acetate	Ave	0.7414	0.5561		30.0	40.0	-25.0*	20.0
2-Chloro-1,3-butadiene	Ave	0.2764	0.2553		18.5	20.0	-7.6	20.0
Tert-butyl ethyl ether	Ave	1.009	0.8404		16.7	20.0	-16.7	20.0
2,2-Dichloropropane	Ave	0.1854	0.1489		16.1	20.0	-19.7	20.0
cis-1,2-Dichloroethene	Ave	0.3411	0.3248	0.1000	19.0	20.0	-4.8	20.0
2-Butanone (MEK)	Ave	0.3559	0.3203	0.0500	90.0	100	-10.0	50.0
Ethyl acetate	Ave	0.3599	0.3189		35.4	40.0	-11.4	20.0

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Lab File ID: N172050a.D DFTPP Injection Date: 02/07/2018

Instrument ID: CBNAMS14 DFTPP Injection Time: 00:21

Analysis Batch No.: 495410

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	58.5	
68	Less than 2.0 % of mass 69	0.9	(1.8) 1
69	Mass 69 relative abundance	48.7	
70	Less than 2.0 % of mass 69	0.3	(0.7) 1
127	40.0 - 60.0 % of mass 198	52.3	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.3	
275	10.0 - 30.0 % of mass 198	25.7	
365	Greater than 1.0 % of mass 198	4.0	
441	Present but less than mass 443	14.9	(83.0) 3
442	Greater than 40.0 % of mass 198	93.6	
443	17.0 - 23.0 % of mass 442	17.9	(19.2) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-495410/2	N172051.D	02/07/2018	00:38
	CCV 460-495410/3	N172052.D	02/07/2018	01:02
	MB 460-495367/1-A	N172053.D	02/07/2018	01:23
	LCS 460-495367/2-A	N172054.D	02/07/2018	01:43
	LCS 460-495367/3-A	N172055.D	02/07/2018	02:04
MW-2S MS	460-149694-1 MS	N172056.D	02/07/2018	02:25
MW-2S MSD	460-149694-1 MSD	N172057.D	02/07/2018	02:46
MW-2S	460-149694-1	N172068.D	02/07/2018	06:34
MW-2D	460-149694-2	N172069.D	02/07/2018	06:55
MW-3	460-149694-3	N172070.D	02/07/2018	07:16
MW-4S	460-149694-4	N172071.D	02/07/2018	07:37
MW-4D	460-149694-5	N172072.D	02/07/2018	07:57
MW-5-02	460-149694-7	N172074.D	02/07/2018	08:39
MW-5-03	460-149694-8	N172075.D	02/07/2018	09:00
MW-5-04	460-149694-9	N172076.D	02/07/2018	09:20

FORM VII GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Lab Sample ID: CCVIS 460-495410/2 Calibration Date: 02/07/2018 00:38

Instrument ID: CBNAMS14 Calib Start Date: 02/06/2018 10:19

Lab File ID: N172051.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.225	1.156	0.8000	9440	10000	-5.6	20.0
Chrysene	Ave	1.105	1.050	0.7000	9510	10000	-4.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6624	0.7162	0.0100	10800	10000	8.1	20.0
Di-n-octyl phthalate	Ave	1.125	1.368	0.0100	12200	10000	(21.6*)	20.0
Benzo[b] fluoranthene	Ave	1.105	1.241	0.7000	11200	10000	12.3	20.0
Benzo[k]fluoranthene	Ave	1.143	1.183	0.7000	10400	10000	3.5	20.0
Benzo[a]pyrene	Ave	1.033	1.129	0.7000	10900	10000	9.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.113	1.180	0.5000	10600	10000	6.0	20.0
Dibenz (a, h) anthracene	Ave	1.134	1.210	0.4000	10700	10000	6.7	20.0
Benzo[g,h,i]perylene	Ave	1.190	1.219	0.5000	10200	10000	2.4	20.0
2-Fluorophenol (Surr)	Ave	1.456	1.486		10200	10000	2.1	20.0
Phenol-d5 (Surr)	Ave	1.938	1.898		9800	10000	-2.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.4536	0.4657	· · · · · · · · · · · · · · · · · · ·	10300	10000	2.7	20.0
2-Fluorobiphenyl	Ave	1.619	1.677		10400	10000	3.6	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2389	0.2509		10500	10000	5.0	20.0
Terphenyl-d14 (Surr)	Ave	0.9726	0.8458		8700	10000	-13.0	20.0

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Lab File ID: P00146.D DFTPP Injection Date: 02/08/2018

Instrument ID: CBNAMS18 DFTPP Injection Time: 15:24

Analysis Batch No.: 495912

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
51	30.0 - 60.0 % of mass 198	35.8			
68	Less than 2.0 % of mass 69	0.5 (1.6) 1			
69	Mass 69 relative abundance	32.3			
70	Less than 2.0 % of mass 69	0.0 (0.0) 1			
127	40.0 - 60.0 % of mass 198	45.1			
197	Less than 1.0 % of mass 198	0.0			
198	Base Peak, 100 % relative abundance	100.0			
199	5.0- 9.0 % of mass 198	6.7			
275	10.0 - 30.0 % of mass 198	27.1			
365	Greater than 1.0 % of mass 198	3.0			
441	Present but less than mass 443	12.3 (90.2) 3			
442	Greater than 40.0 % of mass 198	72.1			
443	17.0 - 23.0 % of mass 442	13.7 (19.0) 2			

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-495912/2	P00147.D	02/08/2018	15:47
	CCV 460-495912/3	P00148.D	02/08/2018	16:23
	MB 460-495833/1-A	P00149.D	02/08/2018	17:06
	LCS 460-495833/2-A	P00150.D	02/08/2018	17:29
	LCSD 460-495833/3-A	P00151.D	02/08/2018	17:52
	LCS 460-495833/4-A	P00152.D	02/08/2018	18:15
	LCSD 460-495833/5-A	P00153.D	02/08/2018	18:38
MW-5-01	460-149694-6	P00162.D	02/08/2018	22:06
Duplicate	460-149694-10	P00163.D	02/08/2018	22:29

FORM III GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-149694-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P00150.D

Lab ID: LCS 460-495833/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	80.0	77.4	97	54-108	
1,2,4,5-Tetrachlorobenzene	80.0	76.8	96	46-105	
2,2'-oxybis[1-chloropropane]	80.0	70.2	88	50-108	
2,3,4,6-Tetrachlorophenol	80.0	85.3	107	57-122	
2,4,5-Trichlorophenol	80.0	83.2	104	59-117	
2,4,6-Trichlorophenol	80.0	83.9	105	62-120	
2,4-Dichlorophenol	80.0	81.8	102	62-102	
2,4-Dimethylphenol	80.0	75.7	95	61-95	
2,4-Dinitrophenol	160	167	104	45-125	
2,4-Dinitrotoluene	80.0	99.3	124		*
2,6-Dinitrotoluene	80.0	90.9	114	68-121	
2-Chloronaphthalene	80.0	79.2	99	54-105	
2-Chlorophenol	80.0	70.3	88	54-92	
2-Methylnaphthalene	80.0	76.8	96	47-104	
2-Methylphenol	80.0	59.5	74	43-80	
2-Nitroaniline	80.0	80.2	100	46-124	
2-Nitrophenol	80.0	85.3	107	58-109	
3,3'-Dichlorobenzidine	80.0	98.6	123	68-123	
3-Nitroaniline	80.0	81.7	102	60-117	
4,6-Dinitro-2-methylphenol	160	167	104	59-132	
4-Bromophenyl phenyl ether	80.0	82.0	102	57-126	
4-Chloro-3-methylphenol	80.0	75.0	94	58-98	
4-Chloroaniline	80.0	80.0	100	51-108	
4-Chlorophenyl phenyl ether	80.0	85.7	107	60-114	
4-Methylphenol	80.0	56.0	70	34-78	-
4-Nitroaniline	80.0	87.8	110	48-135	
4-Nitrophenol	160	53.6	33	11-47	
Acenaphthene	80.0	83.8	105	58-107	
Acenaphthylene	80.0	81.8	102	61-106	
Acetophenone	80.0	83.6	105	54-115	
Anthracene	80.0	82.8	103	70-118	
Benzo[a]anthracene	80.0	89.7	112	73-119	
Benzo[a]pyrene	80.0	93.4	117	76-125	
Benzo[b] fluoranthene	80.0	91.1	114	78-123	
Benzo[g,h,i]perylene	80.0	92.1	115	63-133	
Benzo[k]fluoranthene	80.0	93.6	117	71-126	
Bis (2-chloroethoxy) methane	80.0	80.6	101	67-104	
Bis (2-chloroethyl) ether	80.0	81.0	101	63-106	
Bis(2-ethylhexyl) phthalate	80.0	90.3	113	63-135	
Butyl benzyl phthalate	80.0	88.7	111	66-129	
Carbazole	80.0	86.4	108	68-121	
Chrysene	80.0	89.9	112	73-121	

[#] Column to be used to flag recovery and RPD values
FORM III 8270D