



CBS Corporation

Environmental Remediation
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Via Electronic and First-Class Mail

January 19, 2016

Mr. David P. Locey
New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

**Re: Quarterly Progress Report, October 1 through December 31, 2015
NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Locey:

On behalf of CBS Corporation (CBS) and the Niagara Frontier Transportation Authority (NFTA), CBS submits this progress report on activities undertaken during the fourth quarter of 2015 at New York State Department of Environmental Conservation (NYSDEC) Site No. 9-15-066 in Cheektowaga, New York (the Site) pursuant to the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, entered with NYSDEC (the Order). Under agreements among the Respondents to the Order, CBS is managing the Remedial Program, including the post-closure monitoring related to the Operable Unit 2 (OU2) groundwater collection and treatment system. This progress report also provides the results from the fifth round of post-closure groundwater and storm sewer (surface water) monitoring.

1. Site Activities and Status

- A. On October 29, 2015, CBS submitted to NYSDEC a progress report on the status of activities at the Site during the third quarter of 2015 (*i.e.*, July 1 through September 30, 2015).
- B. On December 10, 2015, GHD Services, Inc. (GHD) conducted the fifth round of quarterly post-closure groundwater and storm sewer (surface water) sampling.

- C. TestAmerica Laboratories, Inc. (TestAmerica) completed the analyses of the groundwater and storm sewer (surface water) samples that were collected on December 10, 2015. GHD conducted data validation and usability evaluations.

2. Sampling Results and Other Site Data

- A. Table 1 presents groundwater elevations over the course of post-closure groundwater monitoring, including the most recent (December 10, 2015) measurements. Historical data from April 2008 and June 2011 are also included in this table for reference.
- B. Table 2 presents the results of the groundwater sampling over the course of post-closure monitoring, including the most recent (December 10, 2015) sampling. Monitoring well sampling locations are shown in Figure 1.
- C. As shown in Table 2, except for vinyl chloride at well MW-32, none of the monitored volatile organic compounds (VOCs) or metals was detected in the December 2015 sampling at concentrations above their respective remedial action objectives (RAOs). Well MW-32 historically exhibited elevated VOC concentrations, and groundwater at this location was the focus of an *in situ* chemical oxidation treatment program that resulted in substantial decreases in VOC concentrations.
- D. Tables 3 through 5 present the results of the December 2015 surface water sampling over the course of post-closure monitoring, including the most recent (December 10, 2015) sampling. The table also includes the results of baseline sampling collected in July 2014. Manhole sampling locations are shown in Figure 1.
- E. As indicated in Tables 3 through 5, low constituent concentrations are evident in the area of the 001 segment of the former collection system and the western portion of the 003 segment (*i.e.*, Manholes MH-3B and MH-3C). Higher constituent concentrations are present in the area of the 002 segment and the eastern portion of the 003 segment (*i.e.*, Manhole MH-3A).
- F. Attachments A and B provide the analytical laboratory reports for the groundwater and storm sewer samples, respectively, collected in December 2015.
- G. Attachment C provides the data validation and usability evaluation for the samples collected in December 2015.

3. Upcoming Activities

- A. CBS will continue the quarterly OU2 post-closure groundwater and storm sewer monitoring.
- B. As analytical data are developed and evaluated, GHD will submit electronic data deliverables (EDDs) for incorporation of Site data into the NYSDEC EQuIS database.¹

4. Technical and Schedule Issues

- A. There are no unresolved technical or operational issues affecting the OU2 post-closure groundwater and storm sewer monitoring.

We trust this submittal satisfies your requirements at this time. If you have questions regarding this progress report or other project matters, please do not hesitate to contact me.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer
Environmental Remediation

LMB:
Attachments

cc: Tim Carvana, NFTA
Clair Quadri
M. G. Graham, Esq.
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S. J. Ricca, Esq.
W. D. Wall, Esq.

¹ The EDD for the December 2015 groundwater and surface water sampling data was submitted to NYSDEC on January 14, 2016.

TABLES

Table 1
Groundwater Elevations
Site No. 9-15-066, Cheektowaga, New York

Date of Measurement	MW-2	MW-5	MW-28	MW-30	MW-31	MW-32	MW-33	MW-34	MW-34D	MW-35
Depth to Groundwater (ft-TOC)										
04/24/08	NM	2.91	5.94	5.33	3.18	NM	NM	3.51	5.4	NM
06/14/11	7.10	2.81	5.86	4.82	4.05	1.60	5.04	3.78	6.23	13.29
11/24/14	6.28	1.90	5.50	5.17	3.46	0.25	5.11	3.37	0.25	12.91
04/01/15	6.87	2.59	5.85	3.92	5.01	0.44	5.18	2.65	0.06	12.22
06/18/15	6.70	2.30	5.76	3.32	3.32	0.96	5.02	2.90	3.38	12.90
09/10/15	7.34	2.60	5.89	5.82	3.88	1.48	5.22	3.80	5.22	13.69
12/10/15	7.50	2.67	5.95	5.74	5.39	1.37	5.40	3.77	5.18	13.62
Groundwater Elevation (ft-msl)										
04/24/08	NA	685.30	682.33	689.48	684.04	NA	NA	699.42	696.39	NA
06/14/11	684.71	685.40	682.41	689.99	683.17	709.11	707.46	699.15	695.56	685.17
11/24/14	685.53	686.31	682.77	689.64	683.76	710.46	707.39	699.56	701.54	685.55
04/01/15	684.94	685.62	682.42	690.89	682.21	710.27	707.32	700.28	701.73	686.24
06/18/15	685.11	685.91	682.51	691.49	683.90	709.75	707.48	700.03	698.41	685.56
09/10/15	684.47	683.33	682.38	688.99	683.34	709.23	707.28	699.13	696.57	684.77
12/10/15	684.31	685.54	682.32	689.07	681.83	709.34	707.10	699.16	696.61	684.84

Notes :

1. "NM" indicates water level not measured.
2. "NA" indicates groundwater elevation data not available.

Table 2
Summary of Post-Closure Groundwater Monitoring Data
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Well Number	Date of Sampling	Constituent Concentration (µg/L)						
		cis-1,2-dichloroethylene	Toluene	1,1,1-trichloroethane	Trichloroethylene	Vinyl Chloride	Cadmium	Lead
Remedial Action Objective		5	5	5	5	2	5	25
MW-2	11/24/14	0.47 J	1 U	1 U	1 U	0.54 J	5 U	3.6 J
	04/01/15	0.32 J	1 U	1 U	1 U	1 U	0.52 J	10 U
	06/18/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	09/10/15	0.32 J	1 U	1 U	1 U	1 U	5 U	10 U
	12/10/15	0.75 J	1 U	1 U	1 U	0.76 J	5 U	20 U
MW-5	11/24/14	1 U	1 U	1 U	0.71 J	1 U	5 U	2.6 J
	11/24/14 (dup)	1 U	1 U	1 U	0.66 J	1 U	5 U	2.6 J
	04/01/15	1 U	1 U	1 U	0.88 J	1 U	0.21 J	10 U
	06/18/15	1 U	1 U	1 U	1 U	1 U	5 U	120
	09/10/15	1 U	1 U	1 U	0.80 J	1 U	5 U	10 U
	12/10/15	1 U	1 U	1 U	1.3	1 U	5 U	10 U
MW-28	11/24/14	1 U	1 U	1 U	1 U	1 U	5 U	11 J
	04/01/15	1 U	1 U	1 U	1 U	1 U	0.55 J	17 B
	06/18/15	1 U	1 U	1 U	1 U	1 U	5 U	3.4 J
	09/10/15	1 U	1 U	1 U	1 U	1 U	5 U	4.9 J
	12/10/15	1 U	1 U	1 U	1 U	1 U	5 U	5.3 J
MW-30	11/24/14	1 U	1 U	1 U	0.23 J	1 U	5 U	1.5 J
	04/01/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	06/18/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	09/10/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	12/10/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
MW-31	11/24/14	1 U	1 U	1 U	1 U	1 U	5 U	6.0 J
	04/01/15	1 U	1 U	1 U	1 U	1 U	0.43 J	20 U
	06/18/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	09/10/15	1 U	1 U	1 U	1 U	1 U	5 U	20 U
	12/10/15	1 U	1 U	1 U	1 U	1 U	5 U	20 U

Table 2
Summary of Post-Closure Groundwater Monitoring Data
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Well Number	Date of Sampling	Constituent Concentration (µg/L)						
		cis-1,2-dichloroethylene	Toluene	1,1,1-trichloroethane	Trichloroethylene	Vinyl Chloride	Cadmium	Lead
Remedial Action Objective		5	5	5	5	2	5	25
MW-32	11/24/14	1.9	1 U	1 U	1.1	1.0	5 U	1.6 J
	04/01/15	5.2	1 U	1 U	0.66 J	6.0	0.17 J	10 U
	06/18/15	0.45 J	1 U	1 U	1 U	1 U	5 U	10 U
	09/10/15	4.5	1 U	1 U	0.65 J	7.4	5 U	10 U
	09/10/15 (dup)	4.5	1 U	1 U	0.61 J	6.4	5 U	10 U
	12/10/15	4.5	1 U	1 U	0.49 J	4.3	5 U	10 U
	12/10/15 (dup)	4.6	1 U	1 U	0.49 J	4.1	5 U	10 U
MW-33	11/24/14	1 U	1 U	1 U	1 U	1 U	5 U	1.6 J
	04/01/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	06/18/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	09/10/15	1 U	1 U	1 U	0.18 J	1 U	5 U	10 U
	12/10/15	1 U	1 U	1 U	0.18 J	1 U	5 U	10 U
MW-34	11/24/14	1 U	1 U	1 U	1 U	1 U	5 U	1.2 J
	04/01/15	1 U	1 U	1 U	1 U	1 U	0.23 J	10 U
	06/18/15	1 U	1 U	1 U	1 U	1 U	5 U	1.8 J
	09/10/15	1 U	1 U	1 U	1 U	1 U	5 U	2.0 J
	12/10/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
MW-34D	12/02/14	1 U	1 U	1 U	1 U	1 U	0.13 J	10 U
	04/01/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	06/18/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	09/10/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	12/10/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U

Table 2
Summary of Post-Closure Groundwater Monitoring Data
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Well Number	Date of Sampling	Constituent Concentration (µg/L)						
		cis-1,2-dichloroethylene	Toluene	1,1,1-trichloroethane	Trichloroethylene	Vinyl Chloride	Cadmium	Lead
Remedial Action Objective		5	5	5	5	2	5	25
MW-35	11/24/14	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	04/01/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	04/01/15 (dup)	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	06/18/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	06/18/15 (dup)	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	09/10/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U
	12/10/15	1 U	1 U	1 U	1 U	1 U	5 U	10 U

Data Legend:

"NA" - indicates not analyzed

Concentrations above Remedial Action Objectives are highlighted in yellow.

For clarity, the results of the most-recent sampling round are highlighted in light green.

Data qualifiers:

U - not detected at indicated reporting limit (RL)

J - estimated concentration.

B - analyte detected in corresponding blank sample.

Table 3
NFTA Storm Sewer Sampling Results - 001 System Area
Site No. 9-15-066, Cheektowaga, New York

Manhole Designation	Date of Sampling	pH (s.u.)	Total Suspended Solids (mg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	1,2-dichlorobenzene (µg/L)	cis-1,2-dichloroethylene (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Tetrachloroethylene (µg/L)	Trichloroethylene (µg/L)	Vinyl Chloride (µg/L)
MH-1A	07/14/14	7.90 J	2.4	0.61 J	1.4 J	NA	1 U	1 U	1 U	1 U	1.9	1 U	NA
	11/24/14	7.64 J	46	0.54 J	3.8 J	3.1 J	1 U	1 U	1 U	1 U	0.25 J	0.22 J	1 U
	04/01/15	8.01 J	13 J	1.1 J	1.9 J	10 U	1 U	0.24 J	1 U	1 U	1.2	0.25 J	1 U
	06/18/15	7.71 J	3.2	2.3 J	5 U	10 U	1 U	1 U	1 U	1 U	2.4	0.25 J	1 U
	09/10/15	7.90 J	3.6	1.3 J	5 U	2.2 J	1 U	1 U	1 U	1 U	1.0	1 U	1 U
	12/10/15	7.64 J	6.3	3.8 J	1.5 J	2.0 J	1 U	1 U	1 U	1 U	1.7	0.20 J	1 U
MH-1B	07/14/14	8.06 J	7.6	5 U	5 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA
	11/24/14	7.69 J	5.6	5 U	1.1 J	1.6 J	1 U	1 U	1 U	1 U	1 U	0.20 J	1 U
	04/01/15	7.96 J	66	0.97 J	3.7 J	50 U	1 U	0.32 J	1 U	1 U	1 U	0.53 J	1 U
	06/18/15	8.12 J	0.5	5 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	09/10/15	8.16 J	1.1	5 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	12/10/15	7.90 J	1.2	5 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MH-1C	07/14/14	8.18 J	8.0	5 U	5 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA
	11/24/14	7.82 J	8.0	5 U	0.78 J	10 U	1 U	1 U	1 U	1 U	1 U	0.24 J	1 U
	04/01/15	8.10 J	41	0.18 J	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	06/18/15	8.08 J	7.3	5 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	09/10/15	8.29 J	1.5	5 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	12/10/15	8.19 J	54	5 U	5 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:

1. For manhole locations, see Figure 1.
2. "NA" indicates not available.
3. Data Legend:
 Detections and estimated values are in **bold-face** type.
 Data Qualifiers:
 U - not detected at indicated reporting limit (RL).
 J - estimated concentration.

Table 4
NFTA Storm Sewer Sampling Results - 002 System Area
Site No. 9-15-066, Cheektowaga, New York

Manhole Designation	Date of Sampling	pH (s.u.)	Total Suspended Solids (mg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	1,2-dichlorobenzene (µg/L)	cis-1,2-dichloroethylene (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Tetrachloroethylene (µg/L)	Trichloroethylene (µg/L)	Vinyl Chloride (µg/L)
MH-2A	07/11/14	8.69 J	30	5 U	2.2 J	NA	1 U	2.3	0.50 JB	1 U	1 U	18	NA
	11/24/14	8.32 J	2 U	0.21 J	3.0 J	10 U	1 U	21	4.9 JB	1 U	0.98 J	120	1.6
	04/01/15	8.33 J	3.5	5 U	3.2 J	1.2 J	5 U	19	5 U	5 U	1.0 J	70	5 U
	06/18/15	8.36 J	0.5	5 U	1.9 J	1.2 J	1 U	11	1 U	1 U	1.2	74	1 U
	09/10/15	8.29 J	1.2	5 U	5 U	2.6 J	1 U	4.0	1 U	1 U	0.55 J	16	1 U
	12/10/15	7.89 J	2.9	5 U	1.5 J	2.2 J	1 U	13	1 U	1 U	2.7	25	1 U
MH-2B	07/11/14	11.7 J	6.4	5 U	5.7	NA	2 U	25	1.4 JB	2 U	5.7	41	NA
	11/24/14	10.4 J	97	5 U	7.1	10 U	2 U	27	2 U	2 U	7.9	44	1.6 J
	04/01/15	11.2 J	160	0.21 J	7.1	50 U	5 U	23	1 U	5 U	7.0	82	1.7 J
	06/18/15	11.4 J	36	5 U	5.5	10 U	1 U	31	1 U	0.16 J	10	57	1.1
	09/10/15	11.6 J	39	5 U	5.0	11	2 U	29	1 U	2 U	9.4	59	1.0 J
	12/10/15	11.6 J	57	5 U	5.2	8.4 J	5 U	33	5 U	5 U	8.6	58	5 U
MH-2C	07/11/14	9.14 J	310	5 U	6.0	NA	2 U	25	1.2 JB	2 U	6.6	46	NA
	11/24/14	9.17 J	150	0.34 J	15	9.5 J	1 U	18 J	1 U	1 U	6.3 J	30 J	1.4
	04/01/15	10.6 J	170	0.41 J	9.0	7.4 J	1 U	29 J	0.18 J	0.26 J	15	66 J	3.1
	06/18/15	11.5 J	18	5 U	5.3	1.9 J	1 U	32	1 U	0.16 J	12	55	1.2
	09/10/15	11.7 J	22	5 U	2.6 J	6.6 J	1 U	25	1 U	1 U	8.9	56	0.77 J
	09/10/15	11.7 J	20	5 U	2.5 J	6.4 J	1 U	25	1 U	1 U	8.8	56	0.76 J
	12/10/15	11.7 J	11	5 U	3.2 J	3.6 J	3 U	37	3 U	3 U	9.2	69	1.1 J
	12/10/15	11.6 J	6.8	5 U	2.7 J	4.6 J	3 U	36	3 U	3 U	9.5	68	1.1 J

Table 4
NFTA Storm Sewer Sampling Results - 002 System Area
Site No. 9-15-066, Cheektowaga, New York

Manhole Designation	Date of Sampling	pH (s.u.)	Total Suspended Solids (mg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	1,2-dichlorobenzene (µg/L)	cis-1,2-dichloroethylene (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Tetrachloroethylene (µg/L)	Trichloroethylene (µg/L)	Vinyl Chloride (µg/L)
MH-2D	07/11/14	8.80 J	62	5 U	4.0 J	NA	1 U	2.9	0.51 JB	1 U	0.2 J	20	NA
	11/24/14	8.76 J	22	5 U	5.0	10 U	1 U	53	2.5 JB	1 U	1.0	130	4.9
	04/01/15	8.29 J	50	0.26 J	6.2	7.2 J	1 U	28	1 U	1 U	2.3	100	1.3
	06/18/15	7.93 J	1.2	5 U	0.88 J	1.3 J	1 U	73	1 U	1 U	0.87 J	1,300	0.44 J
	09/10/15	8.14 J	24	5 U	5 U	10 U	1 U	5.7	1 U	1 U	0.75 J	24	1 U
	12/10/15	7.85 J	120	5 U	3.2 J	2.1 J	1 U	25	1 U	1 U	4.4	46	0.26 J

Notes:

1. For manhole locations, see Figure 1.
2. "NA" indicates not available.
3. Data Legend :

Detections and estimated values are in **bold-face** type.

Data Qualifiers:

U - not detected at indicated reporting limit (RL).

J - estimated concentration.

B - constituent detected in corresponding blank sample.

Table 5
NFTA Storm Sewer Sampling Results - 003 System Area
Site No. 9-15-066, Cheektowaga, New York

Manhole Designation	Date of Sampling	pH (s.u.)	Total Suspended Solids (mg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	1,2-dichlorobenzene (µg/L)	cis-1,2-dichloroethylene (µg/L)	Methylene Chloride (µg/L)	Toluene (µg/L)	Tetrachloroethylene (µg/L)	Trichloroethylene (µg/L)	Vinyl Chloride (µg/L)
MH-3A	07/11/14	9.56 J	2.4	5 U	5.6	NA	25 U	52	16 JB	25 U	25 U	370	NA
	11/24/14	8.84 J	25	5 U	4.2 J	10 U	3 U	30	3 U	3 U	3 U	110	0.84 J
	04/01/15	9.03 J	1.4	0.25 J	10	50 U	10 U	15	10 U	10 U	10 U	71	10 U
	06/18/15	8.96 J	33	5 U	5.6	1.7 J	1 U	16	1 U	1 U	0.91 J	110	1 U
	06/18/15	8.94 J	24	5 U	5.8	2.8 J	1 U	16	1 U	1 U	0.96 J	110	0.90 J
	09/10/15	9.55 J	19	5 U	2.7 J	4.5 J	2 U	16	1 U	2 U	2.0	64	1.6 J
	12/10/15	9.44 J	64	5 U	3.5 J	4.8 J	5 U	30	5 U	5 U	1.7 J	84	1.5 J
MH-3B	07/11/14	8.88 J	13	5 U	1.4 J	NA	1 U	1 U	0.48 JB	1 U	1 U	0.95 J	NA
	11/24/14	8.05 J	150	0.31 J	13	43	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	11/24/14	8.01 J	160	0.20 J	15	48	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	04/01/15	8.89 J	7.3	0.21 J	13	50 U	1 U	1 U	1 U	1 U	1 U	0.54 J	1 U
	06/18/15	7.81 J	4.0	5 U	7.5	1.2 J	1 U	1 U	1 U	1 U	1 U	0.60 J	1 U
	09/10/15	7.52 J	150	5 U	4.6 J	3.7 J	1 U	1 U	1 U	1 U	1 U	1.7	1 U
	12/10/15	7.22 J	14	5 U	1.6 J	2.1 J	1 U	1 U	1 U	1 U	1 U	0.22 J	1 U
MH-3C	07/11/14	8.67 J	160	5 U	3.1 J	NA	1 U	1 U	0.48 JB	1 U	1 U	1 U	NA
	11/24/14	7.84 J	260	0.50 J	21	25	1 U	1 U	1 U	1 U	1 U	1.8	1 U
	04/01/15	7.70 J	1,300 J	8.9 J	27	100	1 U	1 U	1 U	0.39 J	1 U	0.62 J	1 U
	04/01/15	7.57 J	750	5.4 J	31	91	1 U	1 U	1 U	0.63 J	1 U	0.62 J	1 U
	06/18/15	7.68 J	330	5 U	3.9 J	2.3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	09/10/15	7.62 J	320	5 U	9.0	9.9 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	12/10/15	7.14 J	72	5 U	1.9 J	3.3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U

See notes on following page.

Table 5
NFTA Storm Sewer Sampling Results - 003 System Area
Site No. 9-15-066, Cheektowaga, New York

Notes:

1. For manhole locations, see Figure 1.
2. "NA" indicates not available.
3. Data Legend:

*Detections and estimated values are in **bold-face** type.*

Data Qualifiers:

U - not detected at indicated reporting limit (RL).

J - estimated concentration.

B - constituent detected in corresponding blank sample.

FIGURE

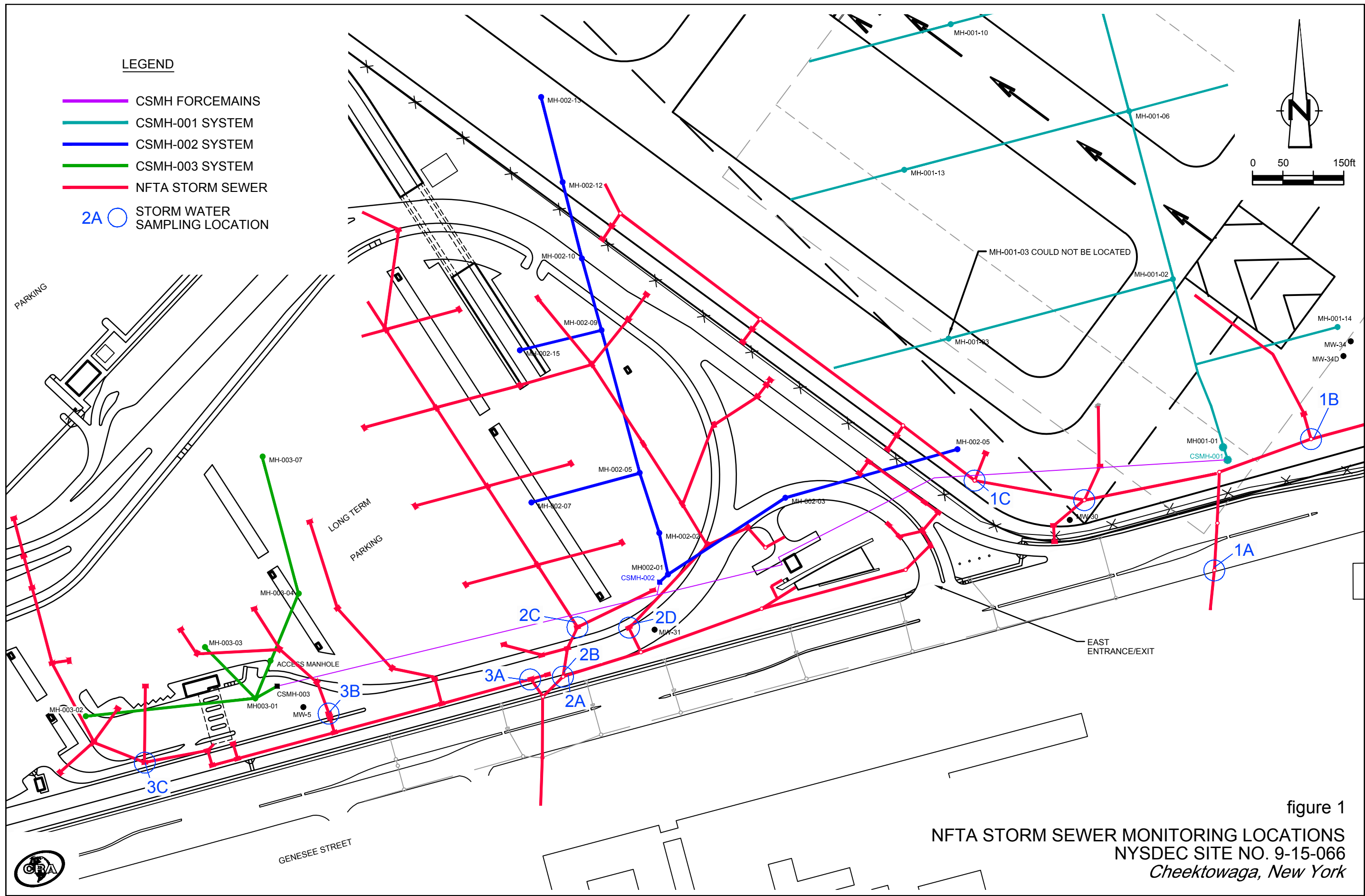


figure 1
 NFTA STORM SEWER MONITORING LOCATIONS
 NYSDEC SITE NO. 9-15-066
 Cheektowaga, New York

ATTACHMENT A
ANALYTICAL LABORATORY REPORT
DECEMBER 2015 GROUNDWATER SAMPLING

Groundwater Sampling Key
December 10, 2015
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Well No.	Sample No.
TRIP BLANK	TB-18036-121015-DT
MW-34D	WG-18036-121015-DT-001
MW-34	WG-18036-121015-SG-002
MW-30	WG-18036-121015-DT-003
MW-35	WG-18036-121015-SG-004
MW-33	WG-18036-121015-DT-005
MW-2	WG-18036-121015-SG-006
MW-32	WG-18036-121015-DT-007
MW-28	WG-18036-121015-SG-008
MW-32	WG-18036-121015-DT-009
MW-5	WG-18036-121015-SG-010
MW-31	WG-18036-121015-SG-011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-50648-1

Client Project/Site: Buffalo Airport

For:

Brausch Environmental LLC

5318 Alexa Road

Charlotte, North Carolina 28277

Attn: Leo Brausch



Authorized for release by:

12/29/2015 4:00:50 PM

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

LINKS

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results through

TotalAccess

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Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	12
QC Sample Results	18
QC Association Summary	21
Chain of Custody	23
Receipt Checklists	24

Case Narrative

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Job ID: 180-50648-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-50648-1

Receipt

The samples were received on 12/11/2015 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

The chain of custody did not list a sampling time for the TRIP BLANK. The earliest sample time was logged in.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: WG-18036-121015-SG-006 (180-50648-7), WG-18036-121015-SG-008 (180-50648-9) and WG-18036-121015-SG-011 (180-50648-12). All analytes referencing the indium internal standard required dilution due to the indium counts being low and outside the 70%-130% control limits.



Definitions/Glossary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-16

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Sample Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-50648-1	TB-18036-121015-DT	Water	12/10/15 08:30	12/11/15 08:50
180-50648-2	WG-18036-121015-DT-001	Water	12/10/15 08:45	12/11/15 08:50
180-50648-3	WG-18036-121015-SG-002	Water	12/10/15 08:30	12/11/15 08:50
180-50648-4	WG-18036-121015-DT-003	Water	12/10/15 09:30	12/11/15 08:50
180-50648-5	WG-18036-121015-SG-004	Water	12/10/15 09:30	12/11/15 08:50
180-50648-6	WG-18036-121015-DT-005	Water	12/10/15 10:25	12/11/15 08:50
180-50648-7	WG-18036-121015-SG-006	Water	12/10/15 10:40	12/11/15 08:50
180-50648-8	WG-18036-121015-DT-007	Water	12/10/15 11:50	12/11/15 08:50
180-50648-9	WG-18036-121015-SG-008	Water	12/10/15 11:35	12/11/15 08:50
180-50648-10	WG-18036-121015-DT-009	Water	12/10/15 11:50	12/11/15 08:50
180-50648-11	WG-18036-121015-SG-010	Water	12/10/15 13:00	12/11/15 08:50
180-50648-12	WG-18036-121015-SG-011	Water	12/10/15 13:55	12/11/15 08:50

Method Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: TB-18036-121015-DT

Lab Sample ID: 180-50648-1

Date Collected: 12/10/15 08:30

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 19:41	DLF	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: WG-18036-121015-DT-001

Lab Sample ID: 180-50648-2

Date Collected: 12/10/15 08:45

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 20:05	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 14:43	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-SG-002

Lab Sample ID: 180-50648-3

Date Collected: 12/10/15 08:30

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 20:29	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 14:48	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-DT-003

Lab Sample ID: 180-50648-4

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 20:53	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 14:54	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-SG-004

Lab Sample ID: 180-50648-5

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 21:18	DLF	TAL PIT
Instrument ID: CHHP6										

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-004

Lab Sample ID: 180-50648-5

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 14:59	RJG	TAL PIT
		Instrument ID: Q								

Client Sample ID: WG-18036-121015-DT-005

Lab Sample ID: 180-50648-6

Date Collected: 12/10/15 10:25

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 21:42	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 15:20	RJG	TAL PIT
		Instrument ID: Q								

Client Sample ID: WG-18036-121015-SG-006

Lab Sample ID: 180-50648-7

Date Collected: 12/10/15 10:40

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 22:31	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 15:36	RJG	TAL PIT
		Instrument ID: Q								
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2	50 mL	50 mL	164193	12/18/15 10:21	RJG	TAL PIT
		Instrument ID: Q								

Client Sample ID: WG-18036-121015-DT-007

Lab Sample ID: 180-50648-8

Date Collected: 12/10/15 11:50

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 22:55	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 15:42	RJG	TAL PIT
		Instrument ID: Q								

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-008

Lab Sample ID: 180-50648-9

Date Collected: 12/10/15 11:35

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 23:19	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 15:47	RJG	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2	50 mL	50 mL	164193	12/18/15 10:32	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-DT-009

Lab Sample ID: 180-50648-10

Date Collected: 12/10/15 11:50

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 23:43	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 15:53	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-SG-010

Lab Sample ID: 180-50648-11

Date Collected: 12/10/15 13:00

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/15/15 00:07	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 15:58	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-SG-011

Lab Sample ID: 180-50648-12

Date Collected: 12/10/15 13:55

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/15/15 00:32	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 16:19	RJG	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-011

Lab Sample ID: 180-50648-12

Date Collected: 12/10/15 13:55

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	200.7 Rev 4.4		2	50 mL	50 mL	164193	12/18/15 10:38	RJG	TAL PIT
Instrument ID: Q										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

RJG = Rob Good

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: TB-18036-121015-DT

Lab Sample ID: 180-50648-1

Date Collected: 12/10/15 08:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 19:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 19:41	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 19:41	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 19:41	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 135		12/14/15 19:41	1
4-Bromofluorobenzene (Surr)	95		62 - 123		12/14/15 19:41	1
Dibromofluoromethane (Surr)	102		64 - 128		12/14/15 19:41	1
Toluene-d8 (Surr)	96		71 - 118		12/14/15 19:41	1

Client Sample ID: WG-18036-121015-DT-001

Lab Sample ID: 180-50648-2

Date Collected: 12/10/15 08:45

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 20:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 20:05	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 20:05	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 20:05	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 135		12/14/15 20:05	1
4-Bromofluorobenzene (Surr)	91		62 - 123		12/14/15 20:05	1
Dibromofluoromethane (Surr)	105		64 - 128		12/14/15 20:05	1
Toluene-d8 (Surr)	94		71 - 118		12/14/15 20:05	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:43	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:43	1

Client Sample ID: WG-18036-121015-SG-002

Lab Sample ID: 180-50648-3

Date Collected: 12/10/15 08:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 20:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 20:29	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 20:29	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 20:29	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		58 - 135		12/14/15 20:29	1
4-Bromofluorobenzene (Surr)	92		62 - 123		12/14/15 20:29	1
Dibromofluoromethane (Surr)	104		64 - 128		12/14/15 20:29	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-002

Lab Sample ID: 180-50648-3

Date Collected: 12/10/15 08:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 118		12/14/15 20:29	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:48	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:48	1

Client Sample ID: WG-18036-121015-DT-003

Lab Sample ID: 180-50648-4

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 20:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 20:53	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 20:53	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 20:53	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 135		12/14/15 20:53	1
4-Bromofluorobenzene (Surr)	91		62 - 123		12/14/15 20:53	1
Dibromofluoromethane (Surr)	104		64 - 128		12/14/15 20:53	1
Toluene-d8 (Surr)	96		71 - 118		12/14/15 20:53	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:54	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:54	1

Client Sample ID: WG-18036-121015-SG-004

Lab Sample ID: 180-50648-5

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 21:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 21:18	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 21:18	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 21:18	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/14/15 21:18	1
4-Bromofluorobenzene (Surr)	95		62 - 123		12/14/15 21:18	1
Dibromofluoromethane (Surr)	106		64 - 128		12/14/15 21:18	1
Toluene-d8 (Surr)	99		71 - 118		12/14/15 21:18	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:59	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-004

Lab Sample ID: 180-50648-5

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:59	1

Client Sample ID: WG-18036-121015-DT-005

Lab Sample ID: 180-50648-6

Date Collected: 12/10/15 10:25

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 21:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 21:42	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 21:42	1
Trichloroethene	0.18	J	1.0	0.14	ug/L			12/14/15 21:42	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		58 - 135		12/14/15 21:42	1
4-Bromofluorobenzene (Surr)	90		62 - 123		12/14/15 21:42	1
Dibromofluoromethane (Surr)	109		64 - 128		12/14/15 21:42	1
Toluene-d8 (Surr)	92		71 - 118		12/14/15 21:42	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:20	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 15:20	1

Client Sample ID: WG-18036-121015-SG-006

Lab Sample ID: 180-50648-7

Date Collected: 12/10/15 10:40

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 22:31	1
cis-1,2-Dichloroethene	0.75	J	1.0	0.24	ug/L			12/14/15 22:31	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 22:31	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 22:31	1
Vinyl chloride	0.76	J	1.0	0.23	ug/L			12/14/15 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135		12/14/15 22:31	1
4-Bromofluorobenzene (Surr)	92		62 - 123		12/14/15 22:31	1
Dibromofluoromethane (Surr)	105		64 - 128		12/14/15 22:31	1
Toluene-d8 (Surr)	95		71 - 118		12/14/15 22:31	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:36	1
Lead	20	U	20	4.0	ug/L		12/15/15 05:33	12/18/15 10:21	2

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-DT-007

Lab Sample ID: 180-50648-8

Date Collected: 12/10/15 11:50

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 22:55	1
cis-1,2-Dichloroethene	4.5		1.0	0.24	ug/L			12/14/15 22:55	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 22:55	1
Trichloroethene	0.49	J	1.0	0.14	ug/L			12/14/15 22:55	1
Vinyl chloride	4.3		1.0	0.23	ug/L			12/14/15 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 135		12/14/15 22:55	1
4-Bromofluorobenzene (Surr)	90		62 - 123		12/14/15 22:55	1
Dibromofluoromethane (Surr)	102		64 - 128		12/14/15 22:55	1
Toluene-d8 (Surr)	93		71 - 118		12/14/15 22:55	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:42	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 15:42	1

Client Sample ID: WG-18036-121015-SG-008

Lab Sample ID: 180-50648-9

Date Collected: 12/10/15 11:35

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 23:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 23:19	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 23:19	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 23:19	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/14/15 23:19	1
4-Bromofluorobenzene (Surr)	100		62 - 123		12/14/15 23:19	1
Dibromofluoromethane (Surr)	107		64 - 128		12/14/15 23:19	1
Toluene-d8 (Surr)	101		71 - 118		12/14/15 23:19	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:47	1
Lead	5.3	J	20	4.0	ug/L		12/15/15 05:33	12/18/15 10:32	2

Client Sample ID: WG-18036-121015-DT-009

Lab Sample ID: 180-50648-10

Date Collected: 12/10/15 11:50

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 23:43	1
cis-1,2-Dichloroethene	4.6		1.0	0.24	ug/L			12/14/15 23:43	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 23:43	1
Trichloroethene	0.49	J	1.0	0.14	ug/L			12/14/15 23:43	1
Vinyl chloride	4.1		1.0	0.23	ug/L			12/14/15 23:43	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-DT-009

Lab Sample ID: 180-50648-10

Date Collected: 12/10/15 11:50

Matrix: Water

Date Received: 12/11/15 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/14/15 23:43	1
4-Bromofluorobenzene (Surr)	93		62 - 123		12/14/15 23:43	1
Dibromofluoromethane (Surr)	108		64 - 128		12/14/15 23:43	1
Toluene-d8 (Surr)	95		71 - 118		12/14/15 23:43	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:53	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 15:53	1

Client Sample ID: WG-18036-121015-SG-010

Lab Sample ID: 180-50648-11

Date Collected: 12/10/15 13:00

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/15/15 00:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/15/15 00:07	1
Toluene	1.0	U	1.0	0.15	ug/L			12/15/15 00:07	1
Trichloroethene	1.3		1.0	0.14	ug/L			12/15/15 00:07	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/15/15 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/15/15 00:07	1
4-Bromofluorobenzene (Surr)	94		62 - 123		12/15/15 00:07	1
Dibromofluoromethane (Surr)	107		64 - 128		12/15/15 00:07	1
Toluene-d8 (Surr)	95		71 - 118		12/15/15 00:07	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:58	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 15:58	1

Client Sample ID: WG-18036-121015-SG-011

Lab Sample ID: 180-50648-12

Date Collected: 12/10/15 13:55

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/15/15 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/15/15 00:32	1
Toluene	1.0	U	1.0	0.15	ug/L			12/15/15 00:32	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/15/15 00:32	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/15/15 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		58 - 135		12/15/15 00:32	1
4-Bromofluorobenzene (Surr)	90		62 - 123		12/15/15 00:32	1
Dibromofluoromethane (Surr)	112		64 - 128		12/15/15 00:32	1
Toluene-d8 (Surr)	94		71 - 118		12/15/15 00:32	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-011

Lab Sample ID: 180-50648-12

Date Collected: 12/10/15 13:55

Matrix: Water

Date Received: 12/11/15 08:50

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 16:19	1
Lead	20	U	20	4.0	ug/L		12/15/15 05:33	12/18/15 10:38	2

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-163430/7

Matrix: Water

Analysis Batch: 163430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 14:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 14:25	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 14:25	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 14:25	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 14:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135		12/14/15 14:25	1
4-Bromofluorobenzene (Surr)	93		62 - 123		12/14/15 14:25	1
Dibromofluoromethane (Surr)	105		64 - 128		12/14/15 14:25	1
Toluene-d8 (Surr)	94		71 - 118		12/14/15 14:25	1

Lab Sample ID: LCS 180-163430/1003

Matrix: Water

Analysis Batch: 163430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.5		ug/L		105	75 - 125
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	69 - 127
Toluene	10.0	9.67		ug/L		97	74 - 126
Trichloroethene	10.0	11.0		ug/L		110	73 - 125
Vinyl chloride	10.0	9.25		ug/L		92	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 135
4-Bromofluorobenzene (Surr)	97		62 - 123
Dibromofluoromethane (Surr)	101		64 - 128
Toluene-d8 (Surr)	95		71 - 118

Lab Sample ID: 180-50648-5 MS

Matrix: Water

Analysis Batch: 163430

Client Sample ID: WG-18036-121015-SG-004

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	10.5		ug/L		105	75 - 125
cis-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	69 - 127
Toluene	1.0	U	10.0	9.40		ug/L		94	74 - 126
Trichloroethene	1.0	U	10.0	10.9		ug/L		109	73 - 125
Vinyl chloride	1.0	U	10.0	9.34		ug/L		93	30 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		58 - 135
4-Bromofluorobenzene (Surr)	92		62 - 123
Dibromofluoromethane (Surr)	100		64 - 128
Toluene-d8 (Surr)	93		71 - 118

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-50648-5 MSD
Matrix: Water
Analysis Batch: 163430

Client Sample ID: WG-18036-121015-SG-004
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits			
1,1,1-Trichloroethane	1.0	U	10.0	11.3		ug/L		113	75 - 125	7		25
cis-1,2-Dichloroethene	1.0	U	10.0	11.3		ug/L		113	69 - 127	10		20
Toluene	1.0	U	10.0	9.78		ug/L		98	74 - 126	4		25
Trichloroethene	1.0	U	10.0	12.0		ug/L		120	73 - 125	10		25
Vinyl chloride	1.0	U	10.0	9.61		ug/L		96	30 - 140	3		35
Surrogate	MSD	MSD	Limits									
	%Recovery	Qualifier										
1,2-Dichloroethane-d4 (Surr)	106		58 - 135									
4-Bromofluorobenzene (Surr)	97		62 - 123									
Dibromofluoromethane (Surr)	107		64 - 128									
Toluene-d8 (Surr)	97		71 - 118									

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-163540/1-A
Matrix: Water
Analysis Batch: 163677

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:33		1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:33		1

Lab Sample ID: LCS 180-163540/2-A
Matrix: Water
Analysis Batch: 163677

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
							Result	
Cadmium	50.0	50.7		ug/L		101	85 - 115	
Lead	500	517		ug/L		103	85 - 115	

Lab Sample ID: 180-50648-5 MS
Matrix: Water
Analysis Batch: 163677

Client Sample ID: WG-18036-121015-SG-004
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Cadmium	5.0	U	50.0	49.0		ug/L		98	70 - 130	
Lead	10	U	500	504		ug/L		101	70 - 130	

Lab Sample ID: 180-50648-5 MSD
Matrix: Water
Analysis Batch: 163677

Client Sample ID: WG-18036-121015-SG-004
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Cadmium	5.0	U	50.0	48.7		ug/L		97	70 - 130	1		20
Lead	10	U	500	501		ug/L		100	70 - 130	1		20

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-50648-11 MS
Matrix: Water
Analysis Batch: 163677

Client Sample ID: WG-18036-121015-SG-010
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	Limits	%Rec.
	Result	Qualifier		Result	Qualifier					
Cadmium	5.0	U	50.0	48.3		ug/L		97	70 - 130	
Lead	10	U	500	502		ug/L		100	70 - 130	

Lab Sample ID: 180-50648-11 MSD
Matrix: Water
Analysis Batch: 163677

Client Sample ID: WG-18036-121015-SG-010
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Sample		Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Cadmium	5.0	U	50.0	48.0		ug/L		96	70 - 130	1	20
Lead	10	U	500	495		ug/L		99	70 - 130	1	20



QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

GC/MS VOA

Analysis Batch: 163430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-1	TB-18036-121015-DT	Total/NA	Water	624	
180-50648-2	WG-18036-121015-DT-001	Total/NA	Water	624	
180-50648-3	WG-18036-121015-SG-002	Total/NA	Water	624	
180-50648-4	WG-18036-121015-DT-003	Total/NA	Water	624	
180-50648-5	WG-18036-121015-SG-004	Total/NA	Water	624	
180-50648-5 MS	WG-18036-121015-SG-004	Total/NA	Water	624	
180-50648-5 MSD	WG-18036-121015-SG-004	Total/NA	Water	624	
180-50648-6	WG-18036-121015-DT-005	Total/NA	Water	624	
180-50648-7	WG-18036-121015-SG-006	Total/NA	Water	624	
180-50648-8	WG-18036-121015-DT-007	Total/NA	Water	624	
180-50648-9	WG-18036-121015-SG-008	Total/NA	Water	624	
180-50648-10	WG-18036-121015-DT-009	Total/NA	Water	624	
180-50648-11	WG-18036-121015-SG-010	Total/NA	Water	624	
180-50648-12	WG-18036-121015-SG-011	Total/NA	Water	624	
LCS 180-163430/1003	Lab Control Sample	Total/NA	Water	624	
MB 180-163430/7	Method Blank	Total/NA	Water	624	

Metals

Prep Batch: 163540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-2	WG-18036-121015-DT-001	Total Recoverable	Water	200.7	
180-50648-3	WG-18036-121015-SG-002	Total Recoverable	Water	200.7	
180-50648-4	WG-18036-121015-DT-003	Total Recoverable	Water	200.7	
180-50648-5	WG-18036-121015-SG-004	Total Recoverable	Water	200.7	
180-50648-5 MS	WG-18036-121015-SG-004	Total Recoverable	Water	200.7	
180-50648-5 MSD	WG-18036-121015-SG-004	Total Recoverable	Water	200.7	
180-50648-6	WG-18036-121015-DT-005	Total Recoverable	Water	200.7	
180-50648-7	WG-18036-121015-SG-006	Total Recoverable	Water	200.7	
180-50648-8	WG-18036-121015-DT-007	Total Recoverable	Water	200.7	
180-50648-9	WG-18036-121015-SG-008	Total Recoverable	Water	200.7	
180-50648-10	WG-18036-121015-DT-009	Total Recoverable	Water	200.7	
180-50648-11	WG-18036-121015-SG-010	Total Recoverable	Water	200.7	
180-50648-11 MS	WG-18036-121015-SG-010	Total Recoverable	Water	200.7	
180-50648-11 MSD	WG-18036-121015-SG-010	Total Recoverable	Water	200.7	
180-50648-12	WG-18036-121015-SG-011	Total Recoverable	Water	200.7	
LCS 180-163540/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
MB 180-163540/1-A	Method Blank	Total Recoverable	Water	200.7	

Analysis Batch: 163677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-2	WG-18036-121015-DT-001	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-3	WG-18036-121015-SG-002	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-4	WG-18036-121015-DT-003	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-5	WG-18036-121015-SG-004	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-5 MS	WG-18036-121015-SG-004	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-5 MSD	WG-18036-121015-SG-004	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-6	WG-18036-121015-DT-005	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-7	WG-18036-121015-SG-006	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-8	WG-18036-121015-DT-007	Total Recoverable	Water	200.7 Rev 4.4	163540

TestAmerica Pittsburgh

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Metals (Continued)

Analysis Batch: 163677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-9	WG-18036-121015-SG-008	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-10	WG-18036-121015-DT-009	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-11	WG-18036-121015-SG-010	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-11 MS	WG-18036-121015-SG-010	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-11 MSD	WG-18036-121015-SG-010	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-12	WG-18036-121015-SG-011	Total Recoverable	Water	200.7 Rev 4.4	163540
LCS 180-163540/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	163540
MB 180-163540/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	163540

Analysis Batch: 164193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-7	WG-18036-121015-SG-006	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-9	WG-18036-121015-SG-008	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-12	WG-18036-121015-SG-011	Total Recoverable	Water	200.7 Rev 4.4	163540



CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

COC NO: 48965

Address: **NF Office**

PAGE 1 OF 1

Phone:

Fax:

(See Reverse Side for Instructions)

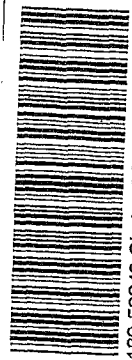
Project No/Phase/Task Code: **18036-2014**
 Project Name: **BNA Post Closure Monitoring**
 Project Location: **Buffalo Airport**
 Chemistry Contact: **S. Gardner D. Tyra**

Laboratory Name: **Test America**
 Lab Location: **Pittsburgh**
 Lab Contact: **Jill Colussy**
 Lab Quote No: **624 1055**

SSOW ID:
 Cooler No:
 Carrier:
 Airbill No:
 Date Shipped: **12-10-15**

ANALYSIS REQUESTED (See Back of COC for Definitions)

Item	SAMPLE IDENTIFICATION (Combine for each sample pair, separate on one line)		DATE (month/day/year)	TIME (hh:mm)	Matrix Code (see back of COC)	Sample Type (Grab (G) or Comp (C))	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	Encores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request	Carrier	Airbill No.	Date Shipped:	COMMENTS/SPECIAL INSTRUCTIONS	
	1	2																			
1	TR-18036-121015-DT		12/10/15		TB G	G		X							2						
2	WG-18036-121015-DT-001		12/10/15	0845	WG G	G		X	X						4						
3	WG-18036-121015-SG-002		12/10/15	0830	WG G	G		X	X						4						
4	WG-18036-121015-DT-003		12/10/15	0930	WG G	G		X	X						4						
5	WG-18036-121015-SG-004		12/10/15	0930	WG G	G		X	X						4						
6	WG-18036-121015-DT-005		12/10/15	1025	WG G	G		X	X						4						
7	WG-18036-121015-SG-006		12/10/15	1040	WG G	G		X	X						4						
8	WG-18036-121015-DT-007		12/10/15	1150	WG G	G		X	X						4						
9	WG-18036-121015-SG-008		12/10/15	1135	WG G	G		X	X						4						
10	WG-18036-121015-DT-009		12/10/15	1130	WG G	G		X	X						4						
11	WG-18036-121015-SG-010		12/10/15	1300	WG G	G		X	X						4						
12	WG-18036-121015-SG-011		12/10/15	1355	WG G	G		X	X						4						
13																					
14																					
15																					



180-50648 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):
 1 Day 2 Days 3 Days 1 Week 2 Week Other:

Total Number of Containers: **54**
 All Samples in Cooler must be on COC

REQUISITIONED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Dave Tyra	GMD	12/10/15	1520	Jill Colussy	Test America	12-11-15	8:50

Login Sample Receipt Checklist

Client: Brausch Environmental LLC

Job Number: 180-50648-1

Login Number: 50648

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT B
ANALYTICAL LABORATORY REPORT
DECEMBER 2015 SURFACE WATER SAMPLING

Surface Water Sampling Key
December 10, 2015
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Manhole No.	Sample No.
1B	SW-18036-121015-01
1C	SW-18036-121015-02
2A	SW-18036-121015-03
2B	SW-18036-121015-04
3A	SW-18036-121015-05
2C	SW-18036-121015-06
2C	SW-18036-121015-07
2D	SW-18036-121015-08
3C	SW-18036-121015-09
3B	SW-18036-121015-12
1A	SW-18036-121015-13
Trip Blank	TB-18036-121015-01

Notes:

1. Sample numbers SW-18036-121015-10 and SW-18036-121015-11 were taken from manhole 3C for MS/MSD analysis.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-50683-1

Client Project/Site: Buffalo Airport

For:

Brausch Environmental LLC

5318 Alexa Road

Charlotte, North Carolina 28277

Attn: Leo Brausch



Authorized for release by:

12/29/2015 4:40:03 PM

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	13
QC Sample Results	20
QC Association Summary	24
Chain of Custody	26
Receipt Checklists	27

Case Narrative

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Job ID: 180-50683-1

Laboratory: TestAmerica Pittsburgh

Narrative

**Job Narrative
180-50683-1**

Receipt

The samples were received on 12/11/2015 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

The following samples were diluted to bring the concentration of target analytes within the calibration range: SW-18036-121015-04 (180-50683-4), SW-18036-121015-05 (180-50683-5), SW-18036-121015-06 (180-50683-6) and SW-18036-121015-07 (180-50683-7). Elevated reporting limits (RLs) are provided.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
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- 9
- 10
- 11
- 12
- 13

Definitions/Glossary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	pH

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Sample Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-50683-1	SW-18036-121015-01	Water	12/10/15 08:00	12/11/15 08:50
180-50683-2	SW-18036-121015-02	Water	12/10/15 08:40	12/11/15 08:50
180-50683-3	SW-18036-121015-03	Water	12/10/15 09:15	12/11/15 08:50
180-50683-4	SW-18036-121015-04	Water	12/10/15 09:30	12/11/15 08:50
180-50683-5	SW-18036-121015-05	Water	12/10/15 10:00	12/11/15 08:50
180-50683-6	SW-18036-121015-06	Water	12/10/15 10:30	12/11/15 08:50
180-50683-7	SW-18036-121015-07	Water	12/10/15 10:30	12/11/15 08:50
180-50683-8	SW-18036-121015-08	Water	12/10/15 11:00	12/11/15 08:50
180-50683-9	SW-18036-121015-09	Water	12/10/15 11:45	12/11/15 08:50
180-50683-10	SW-18036-121015-12	Water	12/10/15 12:15	12/11/15 08:50
180-50683-11	SW-18036-121015-13	Water	12/10/15 13:00	12/11/15 08:50
180-50683-12	TB-18036-121015-01	Water	12/10/15 08:00	12/11/15 08:50

Method Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 H+ B	pH	SM	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-01

Lab Sample ID: 180-50683-1

Date Collected: 12/10/15 08:00

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163622	12/15/15 16:12	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 12:41	RJG	TAL PIT
		Instrument ID: Q								
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:58	JLR	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: SW-18036-121015-02

Lab Sample ID: 180-50683-2

Date Collected: 12/10/15 08:40

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163622	12/15/15 16:36	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 13:02	RJG	TAL PIT
		Instrument ID: Q								
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:55	JLR	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: SW-18036-121015-03

Lab Sample ID: 180-50683-3

Date Collected: 12/10/15 09:15

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163622	12/16/15 08:36	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 13:08	RJG	TAL PIT
		Instrument ID: Q								
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:50	JLR	TAL PIT
		Instrument ID: NOEQUIP								

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-04

Lab Sample ID: 180-50683-4

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	5 mL	5 mL	163622	12/15/15 17:25	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 13:13	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Analysis	SM 2540D		1	500 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:48	JLR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-18036-121015-05

Lab Sample ID: 180-50683-5

Date Collected: 12/10/15 10:00

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	5 mL	5 mL	163622	12/15/15 17:49	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 13:19	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Analysis	SM 2540D		1	500 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:43	JLR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-18036-121015-06

Lab Sample ID: 180-50683-6

Date Collected: 12/10/15 10:30

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		3	5 mL	5 mL	163622	12/16/15 09:00	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 13:34	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:40	JLR	TAL PIT
Instrument ID: NOEQUIP										

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-07

Lab Sample ID: 180-50683-7

Date Collected: 12/10/15 10:30

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		3	5 mL	5 mL	163622	12/16/15 09:25	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 13:40	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:38	JLR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-18036-121015-08

Lab Sample ID: 180-50683-8

Date Collected: 12/10/15 11:00

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163622	12/16/15 09:49	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 13:45	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Analysis	SM 2540D		1	500 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:35	JLR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-18036-121015-09

Lab Sample ID: 180-50683-9

Date Collected: 12/10/15 11:45

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163622	12/15/15 20:15	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 13:51	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Analysis	SM 2540D		1	250 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:33	JLR	TAL PIT
Instrument ID: NOEQUIP										

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-12

Lab Sample ID: 180-50683-10

Date Collected: 12/10/15 12:15

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163622	12/16/15 10:13	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 14:12	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Analysis	SM 2540D		1	500 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:30	JLR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-18036-121015-13

Lab Sample ID: 180-50683-11

Date Collected: 12/10/15 13:00

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163622	12/16/15 10:37	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163541	12/15/15 05:34	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	163677	12/15/15 14:17	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	163654	12/15/15 13:45	JWS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		20 mL	163351	12/14/15 14:28	JLR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: TB-18036-121015-01

Lab Sample ID: 180-50683-12

Date Collected: 12/10/15 08:00

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163622	12/15/15 21:52	DLF	TAL PIT
Instrument ID: CHHP6										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

JLR = Jennifer Rumble

JWS = Jim Swanson

RJG = Rob Good

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Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-01

Lab Sample ID: 180-50683-1

Date Collected: 12/10/15 08:00

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			12/15/15 16:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/15 16:12	1
Toluene	1.0	U	1.0	0.15	ug/L			12/15/15 16:12	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/15/15 16:12	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/15/15 16:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			12/15/15 16:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/15/15 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/15/15 16:12	1
4-Bromofluorobenzene (Surr)	95		62 - 123		12/15/15 16:12	1
Toluene-d8 (Surr)	96		71 - 118		12/15/15 16:12	1
Dibromofluoromethane (Surr)	104		64 - 128		12/15/15 16:12	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 12:41	1
Chromium	5.0	U	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 12:41	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:34	12/15/15 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.2		0.50	0.50	mg/L			12/15/15 13:45	1
pH	7.90	HF	0.100	0.100	SU			12/14/15 14:58	1

Client Sample ID: SW-18036-121015-02

Lab Sample ID: 180-50683-2

Date Collected: 12/10/15 08:40

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			12/15/15 16:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/15 16:36	1
Toluene	1.0	U	1.0	0.15	ug/L			12/15/15 16:36	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/15/15 16:36	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/15/15 16:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			12/15/15 16:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/15/15 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		58 - 135		12/15/15 16:36	1
4-Bromofluorobenzene (Surr)	88		62 - 123		12/15/15 16:36	1
Toluene-d8 (Surr)	91		71 - 118		12/15/15 16:36	1
Dibromofluoromethane (Surr)	109		64 - 128		12/15/15 16:36	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 13:02	1
Chromium	5.0	U	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 13:02	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:34	12/15/15 13:02	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-02

Lab Sample ID: 180-50683-2

Date Collected: 12/10/15 08:40

Matrix: Water

Date Received: 12/11/15 08:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	54		0.50	0.50	mg/L			12/15/15 13:45	1
pH	8.19	HF	0.100	0.100	SU			12/14/15 14:55	1

Client Sample ID: SW-18036-121015-03

Lab Sample ID: 180-50683-3

Date Collected: 12/10/15 09:15

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.24	J B	1.0	0.15	ug/L			12/16/15 08:36	1
Tetrachloroethene	2.7		1.0	0.15	ug/L			12/16/15 08:36	1
Toluene	1.0	U	1.0	0.15	ug/L			12/16/15 08:36	1
Trichloroethene	25		1.0	0.14	ug/L			12/16/15 08:36	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/16/15 08:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			12/16/15 08:36	1
cis-1,2-Dichloroethene	13		1.0	0.24	ug/L			12/16/15 08:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		58 - 135					12/16/15 08:36	1
4-Bromofluorobenzene (Surr)	92		62 - 123					12/16/15 08:36	1
Toluene-d8 (Surr)	96		71 - 118					12/16/15 08:36	1
Dibromofluoromethane (Surr)	113		64 - 128					12/16/15 08:36	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 13:08	1
Chromium	1.5	J	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 13:08	1
Lead	2.2	J	10	2.0	ug/L		12/15/15 05:34	12/15/15 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.9		0.50	0.50	mg/L			12/15/15 13:45	1
pH	7.89	HF	0.100	0.100	SU			12/14/15 14:50	1

Client Sample ID: SW-18036-121015-04

Lab Sample ID: 180-50683-4

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.6	J B	5.0	0.75	ug/L			12/15/15 17:25	5
Tetrachloroethene	8.6		5.0	0.74	ug/L			12/15/15 17:25	5
Toluene	5.0	U	5.0	0.75	ug/L			12/15/15 17:25	5
Trichloroethene	58		5.0	0.72	ug/L			12/15/15 17:25	5
Vinyl chloride	5.0	U	5.0	1.1	ug/L			12/15/15 17:25	5
1,2-Dichlorobenzene	5.0	U	5.0	0.76	ug/L			12/15/15 17:25	5
cis-1,2-Dichloroethene	33		5.0	1.2	ug/L			12/15/15 17:25	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		58 - 135					12/15/15 17:25	5
4-Bromofluorobenzene (Surr)	91		62 - 123					12/15/15 17:25	5

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-04

Lab Sample ID: 180-50683-4

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		71 - 118		12/15/15 17:25	5
Dibromofluoromethane (Surr)	107		64 - 128		12/15/15 17:25	5

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 13:13	1
Chromium	5.2		5.0	0.93	ug/L		12/15/15 05:34	12/15/15 13:13	1
Lead	8.4	J	10	2.0	ug/L		12/15/15 05:34	12/15/15 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	57		1.0	1.0	mg/L			12/15/15 13:45	1
pH	11.6	HF	0.100	0.100	SU			12/14/15 14:48	1

Client Sample ID: SW-18036-121015-05

Lab Sample ID: 180-50683-5

Date Collected: 12/10/15 10:00

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	3.3	J B	5.0	0.75	ug/L			12/15/15 17:49	5
Tetrachloroethene	1.7	J	5.0	0.74	ug/L			12/15/15 17:49	5
Toluene	5.0	U	5.0	0.75	ug/L			12/15/15 17:49	5
Trichloroethene	84		5.0	0.72	ug/L			12/15/15 17:49	5
Vinyl chloride	1.5	J	5.0	1.1	ug/L			12/15/15 17:49	5
1,2-Dichlorobenzene	5.0	U	5.0	0.76	ug/L			12/15/15 17:49	5
cis-1,2-Dichloroethene	30		5.0	1.2	ug/L			12/15/15 17:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		58 - 135		12/15/15 17:49	5
4-Bromofluorobenzene (Surr)	93		62 - 123		12/15/15 17:49	5
Toluene-d8 (Surr)	95		71 - 118		12/15/15 17:49	5
Dibromofluoromethane (Surr)	105		64 - 128		12/15/15 17:49	5

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 13:19	1
Chromium	3.5	J	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 13:19	1
Lead	4.8	J	10	2.0	ug/L		12/15/15 05:34	12/15/15 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	64		1.0	1.0	mg/L			12/15/15 13:45	1
pH	9.44	HF	0.100	0.100	SU			12/14/15 14:43	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-06

Lab Sample ID: 180-50683-6

Date Collected: 12/10/15 10:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.3	J B	3.0	0.45	ug/L			12/16/15 09:00	3
Tetrachloroethene	9.2		3.0	0.45	ug/L			12/16/15 09:00	3
Toluene	3.0	U	3.0	0.45	ug/L			12/16/15 09:00	3
Trichloroethene	69		3.0	0.43	ug/L			12/16/15 09:00	3
Vinyl chloride	1.1	J	3.0	0.68	ug/L			12/16/15 09:00	3
1,2-Dichlorobenzene	3.0	U	3.0	0.46	ug/L			12/16/15 09:00	3
cis-1,2-Dichloroethene	37		3.0	0.71	ug/L			12/16/15 09:00	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		58 - 135		12/16/15 09:00	3
4-Bromofluorobenzene (Surr)	94		62 - 123		12/16/15 09:00	3
Toluene-d8 (Surr)	98		71 - 118		12/16/15 09:00	3
Dibromofluoromethane (Surr)	107		64 - 128		12/16/15 09:00	3

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 13:34	1
Chromium	3.2	J	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 13:34	1
Lead	3.6	J	10	2.0	ug/L		12/15/15 05:34	12/15/15 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	11		0.50	0.50	mg/L			12/15/15 13:45	1
pH	11.7	HF	0.100	0.100	SU			12/14/15 14:40	1

Client Sample ID: SW-18036-121015-07

Lab Sample ID: 180-50683-7

Date Collected: 12/10/15 10:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.4	J B	3.0	0.45	ug/L			12/16/15 09:25	3
Tetrachloroethene	9.5		3.0	0.45	ug/L			12/16/15 09:25	3
Toluene	3.0	U	3.0	0.45	ug/L			12/16/15 09:25	3
Trichloroethene	68		3.0	0.43	ug/L			12/16/15 09:25	3
Vinyl chloride	1.1	J	3.0	0.68	ug/L			12/16/15 09:25	3
1,2-Dichlorobenzene	3.0	U	3.0	0.46	ug/L			12/16/15 09:25	3
cis-1,2-Dichloroethene	36		3.0	0.71	ug/L			12/16/15 09:25	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		58 - 135		12/16/15 09:25	3
4-Bromofluorobenzene (Surr)	92		62 - 123		12/16/15 09:25	3
Toluene-d8 (Surr)	94		71 - 118		12/16/15 09:25	3
Dibromofluoromethane (Surr)	107		64 - 128		12/16/15 09:25	3

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 13:40	1
Chromium	2.7	J	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 13:40	1
Lead	4.6	J	10	2.0	ug/L		12/15/15 05:34	12/15/15 13:40	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-07

Lab Sample ID: 180-50683-7

Date Collected: 12/10/15 10:30

Matrix: Water

Date Received: 12/11/15 08:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	6.8		0.50	0.50	mg/L			12/15/15 13:45	1
pH	11.6	HF	0.100	0.100	SU			12/14/15 14:38	1

Client Sample ID: SW-18036-121015-08

Lab Sample ID: 180-50683-8

Date Collected: 12/10/15 11:00

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			12/16/15 09:49	1
Tetrachloroethene	4.4		1.0	0.15	ug/L			12/16/15 09:49	1
Toluene	1.0	U	1.0	0.15	ug/L			12/16/15 09:49	1
Trichloroethene	46		1.0	0.14	ug/L			12/16/15 09:49	1
Vinyl chloride	0.26	J	1.0	0.23	ug/L			12/16/15 09:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			12/16/15 09:49	1
cis-1,2-Dichloroethene	25		1.0	0.24	ug/L			12/16/15 09:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		58 - 135					12/16/15 09:49	1
4-Bromofluorobenzene (Surr)	91		62 - 123					12/16/15 09:49	1
Toluene-d8 (Surr)	95		71 - 118					12/16/15 09:49	1
Dibromofluoromethane (Surr)	109		64 - 128					12/16/15 09:49	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 13:45	1
Chromium	3.2	J	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 13:45	1
Lead	2.1	J	10	2.0	ug/L		12/15/15 05:34	12/15/15 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	120		1.0	1.0	mg/L			12/15/15 13:45	1
pH	7.85	HF	0.100	0.100	SU			12/14/15 14:35	1

Client Sample ID: SW-18036-121015-09

Lab Sample ID: 180-50683-9

Date Collected: 12/10/15 11:45

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			12/15/15 20:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/15 20:15	1
Toluene	1.0	U	1.0	0.15	ug/L			12/15/15 20:15	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/15/15 20:15	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/15/15 20:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			12/15/15 20:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/15/15 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135					12/15/15 20:15	1
4-Bromofluorobenzene (Surr)	92		62 - 123					12/15/15 20:15	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-09

Lab Sample ID: 180-50683-9

Date Collected: 12/10/15 11:45

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		71 - 118		12/15/15 20:15	1
Dibromofluoromethane (Surr)	106		64 - 128		12/15/15 20:15	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 13:51	1
Chromium	1.9	J	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 13:51	1
Lead	3.3	J	10	2.0	ug/L		12/15/15 05:34	12/15/15 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	72		2.0	2.0	mg/L			12/15/15 13:45	1
pH	7.14	HF	0.100	0.100	SU			12/14/15 14:33	1

Client Sample ID: SW-18036-121015-12

Lab Sample ID: 180-50683-10

Date Collected: 12/10/15 12:15

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			12/16/15 10:13	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/16/15 10:13	1
Toluene	1.0	U	1.0	0.15	ug/L			12/16/15 10:13	1
Trichloroethene	0.22	J	1.0	0.14	ug/L			12/16/15 10:13	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/16/15 10:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			12/16/15 10:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/16/15 10:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		58 - 135		12/16/15 10:13	1
4-Bromofluorobenzene (Surr)	95		62 - 123		12/16/15 10:13	1
Toluene-d8 (Surr)	96		71 - 118		12/16/15 10:13	1
Dibromofluoromethane (Surr)	117		64 - 128		12/16/15 10:13	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 14:12	1
Chromium	1.6	J	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 14:12	1
Lead	2.1	J	10	2.0	ug/L		12/15/15 05:34	12/15/15 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	14		1.0	1.0	mg/L			12/15/15 13:45	1
pH	7.22	HF	0.100	0.100	SU			12/14/15 14:30	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Client Sample ID: SW-18036-121015-13

Lab Sample ID: 180-50683-11

Date Collected: 12/10/15 13:00

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			12/16/15 10:37	1
Tetrachloroethene	1.7		1.0	0.15	ug/L			12/16/15 10:37	1
Toluene	1.0	U	1.0	0.15	ug/L			12/16/15 10:37	1
Trichloroethene	0.20	J	1.0	0.14	ug/L			12/16/15 10:37	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/16/15 10:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			12/16/15 10:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/16/15 10:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/16/15 10:37	1
4-Bromofluorobenzene (Surr)	93		62 - 123		12/16/15 10:37	1
Toluene-d8 (Surr)	93		71 - 118		12/16/15 10:37	1
Dibromofluoromethane (Surr)	106		64 - 128		12/16/15 10:37	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.8	J	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 14:17	1
Chromium	1.5	J	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 14:17	1
Lead	2.0	J	10	2.0	ug/L		12/15/15 05:34	12/15/15 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	6.3		0.50	0.50	mg/L			12/15/15 13:45	1
pH	7.64	HF	0.100	0.100	SU			12/14/15 14:28	1

Client Sample ID: TB-18036-121015-01

Lab Sample ID: 180-50683-12

Date Collected: 12/10/15 08:00

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	B	1.0	0.15	ug/L			12/15/15 21:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/15 21:52	1
Toluene	1.0	U	1.0	0.15	ug/L			12/15/15 21:52	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/15/15 21:52	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/15/15 21:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			12/15/15 21:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/15/15 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		58 - 135		12/15/15 21:52	1
4-Bromofluorobenzene (Surr)	93		62 - 123		12/15/15 21:52	1
Toluene-d8 (Surr)	94		71 - 118		12/15/15 21:52	1
Dibromofluoromethane (Surr)	109		64 - 128		12/15/15 21:52	1

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-163622/4

Matrix: Water

Analysis Batch: 163622

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.228	J	1.0	0.15	ug/L			12/15/15 13:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/15 13:50	1
Toluene	1.0	U	1.0	0.15	ug/L			12/15/15 13:50	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/15/15 13:50	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/15/15 13:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			12/15/15 13:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/15/15 13:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/15/15 13:50	1
4-Bromofluorobenzene (Surr)	96		62 - 123		12/15/15 13:50	1
Toluene-d8 (Surr)	98		71 - 118		12/15/15 13:50	1
Dibromofluoromethane (Surr)	105		64 - 128		12/15/15 13:50	1

Lab Sample ID: LCS 180-163622/1002

Matrix: Water

Analysis Batch: 163622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	10.0	9.91		ug/L		99	60 - 140
Tetrachloroethene	10.0	10.7		ug/L		107	73 - 127
Toluene	10.0	10.3		ug/L		103	74 - 126
Trichloroethene	10.0	11.5		ug/L		115	73 - 125
Vinyl chloride	10.0	9.59		ug/L		96	30 - 140
1,2-Dichlorobenzene	10.0	9.33		ug/L		93	68 - 127
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	69 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		58 - 135
4-Bromofluorobenzene (Surr)	94		62 - 123
Toluene-d8 (Surr)	97		71 - 118
Dibromofluoromethane (Surr)	103		64 - 128

Lab Sample ID: 180-50683-9 MS

Matrix: Water

Analysis Batch: 163622

Client Sample ID: SW-18036-121015-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	1.0	U	10.0	11.2		ug/L		112	60 - 140
Tetrachloroethene	1.0	U	10.0	10.1		ug/L		101	73 - 127
Toluene	1.0	U	10.0	9.66		ug/L		97	74 - 126
Trichloroethene	1.0	U	10.0	11.5		ug/L		115	73 - 125
Vinyl chloride	1.0	U	10.0	9.57		ug/L		96	30 - 140
1,2-Dichlorobenzene	1.0	U	10.0	9.26		ug/L		93	68 - 127
cis-1,2-Dichloroethene	1.0	U	10.0	11.0		ug/L		110	69 - 127

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-50683-9 MS
Matrix: Water
Analysis Batch: 163622

Client Sample ID: SW-18036-121015-10
Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		58 - 135
4-Bromofluorobenzene (Surr)	94		62 - 123
Toluene-d8 (Surr)	90		71 - 118
Dibromofluoromethane (Surr)	100		64 - 128

Lab Sample ID: 180-50683-9 MSD
Matrix: Water
Analysis Batch: 163622

Client Sample ID: SW-18036-121015-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	1.0	U	10.0	9.59		ug/L		96	73 - 127	5	25
Toluene	1.0	U	10.0	9.41		ug/L		94	74 - 126	3	25
Trichloroethene	1.0	U	10.0	11.5		ug/L		115	73 - 125	1	25
Vinyl chloride	1.0	U	10.0	9.28		ug/L		93	30 - 140	3	35
1,2-Dichlorobenzene	1.0	U	10.0	9.02		ug/L		90	68 - 127	3	35
cis-1,2-Dichloroethene	1.0	U	10.0	10.9		ug/L		109	69 - 127	1	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		58 - 135
4-Bromofluorobenzene (Surr)	93		62 - 123
Toluene-d8 (Surr)	91		71 - 118
Dibromofluoromethane (Surr)	102		64 - 128

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-163541/1-A
Matrix: Water
Analysis Batch: 163677

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 163541

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:34	12/15/15 12:31	1
Chromium	5.0	U	5.0	0.93	ug/L		12/15/15 05:34	12/15/15 12:31	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:34	12/15/15 12:31	1

Lab Sample ID: LCS 180-163541/2-A
Matrix: Water
Analysis Batch: 163677

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 163541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	200	204		ug/L		102	85 - 115
Lead	500	513		ug/L		103	85 - 115

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-50683-1 MS
Matrix: Water
Analysis Batch: 163677

Client Sample ID: SW-18036-121015-01
Prep Type: Total Recoverable
Prep Batch: 163541

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits	%Rec.
	Result	Qualifier		Result	Qualifier					
Cadmium	5.0	U	50.0	49.7		ug/L		99	70 - 130	
Chromium	5.0	U	200	201		ug/L		100	70 - 130	
Lead	10	U	500	512		ug/L		102	70 - 130	

Lab Sample ID: 180-50683-1 MSD
Matrix: Water
Analysis Batch: 163677

Client Sample ID: SW-18036-121015-01
Prep Type: Total Recoverable
Prep Batch: 163541

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Cadmium	5.0	U	50.0	49.8		ug/L		100	70 - 130	0	20
Chromium	5.0	U	200	200		ug/L		100	70 - 130	0	20
Lead	10	U	500	508		ug/L		102	70 - 130	1	20

Lab Sample ID: 180-50683-9 MS
Matrix: Water
Analysis Batch: 163677

Client Sample ID: SW-18036-121015-10
Prep Type: Total Recoverable
Prep Batch: 163541

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits	%Rec.
	Result	Qualifier		Result	Qualifier					
Cadmium	5.0	U	50.0	50.1		ug/L		100	70 - 130	
Chromium	1.9	J	200	205		ug/L		102	70 - 130	
Lead	3.3	J	500	517		ug/L		103	70 - 130	

Lab Sample ID: 180-50683-9 MSD
Matrix: Water
Analysis Batch: 163677

Client Sample ID: SW-18036-121015-11
Prep Type: Total Recoverable
Prep Batch: 163541

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Cadmium	5.0	U	50.0	50.9		ug/L		102	70 - 130	2	20
Chromium	1.9	J	200	209		ug/L		103	70 - 130	2	20
Lead	3.3	J	500	518		ug/L		103	70 - 130	0	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-163654/2
Matrix: Water
Analysis Batch: 163654

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	0.50	U	0.50	0.50	mg/L			12/15/15 13:45	1

Lab Sample ID: LCS 180-163654/1
Matrix: Water
Analysis Batch: 163654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
Total Suspended Solids	76.7	72.0		mg/L		94	80 - 120

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 180-50683-4 DU
Matrix: Water
Analysis Batch: 163654

Client Sample ID: SW-18036-121015-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	57		57.4		mg/L		0	10

Lab Sample ID: 180-50683-9 DU
Matrix: Water
Analysis Batch: 163654

Client Sample ID: SW-18036-121015-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	72		76.4		mg/L		5	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 180-163351/1
Matrix: Water
Analysis Batch: 163351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.050		SU		101	99 - 101

Lab Sample ID: 180-50683-3 DU
Matrix: Water
Analysis Batch: 163351

Client Sample ID: SW-18036-121015-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.89	HF	7.940		SU		0.6	2

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

GC/MS VOA

Analysis Batch: 163622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50683-1	SW-18036-121015-01	Total/NA	Water	624	
180-50683-2	SW-18036-121015-02	Total/NA	Water	624	
180-50683-3	SW-18036-121015-03	Total/NA	Water	624	
180-50683-4	SW-18036-121015-04	Total/NA	Water	624	
180-50683-5	SW-18036-121015-05	Total/NA	Water	624	
180-50683-6	SW-18036-121015-06	Total/NA	Water	624	
180-50683-7	SW-18036-121015-07	Total/NA	Water	624	
180-50683-8	SW-18036-121015-08	Total/NA	Water	624	
180-50683-9	SW-18036-121015-09	Total/NA	Water	624	
180-50683-9 MS	SW-18036-121015-10	Total/NA	Water	624	
180-50683-9 MSD	SW-18036-121015-11	Total/NA	Water	624	
180-50683-10	SW-18036-121015-12	Total/NA	Water	624	
180-50683-11	SW-18036-121015-13	Total/NA	Water	624	
180-50683-12	TB-18036-121015-01	Total/NA	Water	624	
LCS 180-163622/1002	Lab Control Sample	Total/NA	Water	624	
MB 180-163622/4	Method Blank	Total/NA	Water	624	

Metals

Prep Batch: 163541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50683-1	SW-18036-121015-01	Total Recoverable	Water	200.7	
180-50683-1 MS	SW-18036-121015-01	Total Recoverable	Water	200.7	
180-50683-1 MSD	SW-18036-121015-01	Total Recoverable	Water	200.7	
180-50683-2	SW-18036-121015-02	Total Recoverable	Water	200.7	
180-50683-3	SW-18036-121015-03	Total Recoverable	Water	200.7	
180-50683-4	SW-18036-121015-04	Total Recoverable	Water	200.7	
180-50683-5	SW-18036-121015-05	Total Recoverable	Water	200.7	
180-50683-6	SW-18036-121015-06	Total Recoverable	Water	200.7	
180-50683-7	SW-18036-121015-07	Total Recoverable	Water	200.7	
180-50683-8	SW-18036-121015-08	Total Recoverable	Water	200.7	
180-50683-9	SW-18036-121015-09	Total Recoverable	Water	200.7	
180-50683-9 MS	SW-18036-121015-10	Total Recoverable	Water	200.7	
180-50683-9 MSD	SW-18036-121015-11	Total Recoverable	Water	200.7	
180-50683-10	SW-18036-121015-12	Total Recoverable	Water	200.7	
180-50683-11	SW-18036-121015-13	Total Recoverable	Water	200.7	
LCS 180-163541/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
MB 180-163541/1-A	Method Blank	Total Recoverable	Water	200.7	

Analysis Batch: 163677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50683-1	SW-18036-121015-01	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-1 MS	SW-18036-121015-01	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-1 MSD	SW-18036-121015-01	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-2	SW-18036-121015-02	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-3	SW-18036-121015-03	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-4	SW-18036-121015-04	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-5	SW-18036-121015-05	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-6	SW-18036-121015-06	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-7	SW-18036-121015-07	Total Recoverable	Water	200.7 Rev 4.4	163541

TestAmerica Pittsburgh

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50683-1

Metals (Continued)

Analysis Batch: 163677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50683-8	SW-18036-121015-08	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-9	SW-18036-121015-09	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-9 MS	SW-18036-121015-10	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-9 MSD	SW-18036-121015-11	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-10	SW-18036-121015-12	Total Recoverable	Water	200.7 Rev 4.4	163541
180-50683-11	SW-18036-121015-13	Total Recoverable	Water	200.7 Rev 4.4	163541
LCS 180-163541/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	163541
MB 180-163541/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	163541

General Chemistry

Analysis Batch: 163351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50683-1	SW-18036-121015-01	Total/NA	Water	SM 4500 H+ B	
180-50683-2	SW-18036-121015-02	Total/NA	Water	SM 4500 H+ B	
180-50683-3	SW-18036-121015-03	Total/NA	Water	SM 4500 H+ B	
180-50683-3 DU	SW-18036-121015-03	Total/NA	Water	SM 4500 H+ B	
180-50683-4	SW-18036-121015-04	Total/NA	Water	SM 4500 H+ B	
180-50683-5	SW-18036-121015-05	Total/NA	Water	SM 4500 H+ B	
180-50683-6	SW-18036-121015-06	Total/NA	Water	SM 4500 H+ B	
180-50683-7	SW-18036-121015-07	Total/NA	Water	SM 4500 H+ B	
180-50683-8	SW-18036-121015-08	Total/NA	Water	SM 4500 H+ B	
180-50683-9	SW-18036-121015-09	Total/NA	Water	SM 4500 H+ B	
180-50683-10	SW-18036-121015-12	Total/NA	Water	SM 4500 H+ B	
180-50683-11	SW-18036-121015-13	Total/NA	Water	SM 4500 H+ B	
LCS 180-163351/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 163654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50683-1	SW-18036-121015-01	Total/NA	Water	SM 2540D	
180-50683-2	SW-18036-121015-02	Total/NA	Water	SM 2540D	
180-50683-3	SW-18036-121015-03	Total/NA	Water	SM 2540D	
180-50683-4	SW-18036-121015-04	Total/NA	Water	SM 2540D	
180-50683-4 DU	SW-18036-121015-04	Total/NA	Water	SM 2540D	
180-50683-5	SW-18036-121015-05	Total/NA	Water	SM 2540D	
180-50683-6	SW-18036-121015-06	Total/NA	Water	SM 2540D	
180-50683-7	SW-18036-121015-07	Total/NA	Water	SM 2540D	
180-50683-8	SW-18036-121015-08	Total/NA	Water	SM 2540D	
180-50683-9	SW-18036-121015-09	Total/NA	Water	SM 2540D	
180-50683-9 DU	SW-18036-121015-09	Total/NA	Water	SM 2540D	
180-50683-10	SW-18036-121015-12	Total/NA	Water	SM 2540D	
180-50683-11	SW-18036-121015-13	Total/NA	Water	SM 2540D	
LCS 180-163654/1	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 180-163654/2	Method Blank	Total/NA	Water	SM 2540D	

TestAmerica Pittsburgh



CONESTOGA-ROVERS & ASSOCIATES
GHD Services Inc.

CHAIN OF CUSTODY RECORD
 Address: 2055 Niagara Falls Blvd, Niagara Falls, NY
 Phone: 716 297 6150 Fax: 716 297-2265

COC NO.: 48769
 PAGE 1 OF 1
 (See Reverse Side for Instructions)

Project No/Phase/Task Code: 018036-2014
 Project Name: Quarterly Storm Sewer Sampling
 Project Location: Buffalo Niagara Int'l. Airport
 Chemistry Contact: Sue Scrocchi
 Sampler(s): Kevin Lynch

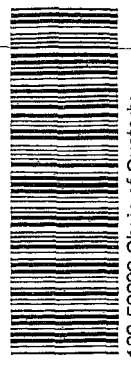
Laboratory Name: Test America
 Lab Contact: Jill Colussy
 Lab Location: Pottsburgh, PA
 Lab Quote No: 18006817
 SOW ID: 18036
 Cobler No:

SAMPLE IDENTIFICATION (Container of each sample to be completed on-site)	DATE (inverted)	TIME (in: mm)	Matrix Code	(see back of COC)	Grab (g) or Comp (c)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil)	EnCores 3x5-g, 1x25-g	Other	Total Containers/Sample	MSMSD Request	COMMENTS/SPECIAL INSTRUCTIONS
1 SW-18036-121015-01	12/10/15	0800	WS	6	2	3	1							63		PH 2640.735 624 VCS
2 SW-18036-121015-02		0840												63		
3 SW-18036-121015-03		0915												63		
4 SW-18036-121015-04		0930												63		HIGH PH 11+
5 SW-18036-121015-05		1000												63		HIGH PH 9.7
6 SW-18036-121015-06		1030												63		HIGH PH 11+
7 SW-18036-121015-07		1030												63		HIGH PH 11+
8 SW-18036-121015-08		1100												63		
9 SW-18036-121015-09		1145												63		
10 SW-18036-121015-10		1145												63		MS/MSD-Not for PH
11 SW-18036-121015-11		1145												63		
12 SW-18036-121015-12		1215												63		
13 SW-18036-121015-13		1300												63		
14																
15 TB-18036-121015-01	12/10/15	-	TB	-										22		

TAT Required in business days (use separate COCs for different TATs):
 1 Day 2 Days 3 Days 1 Week 2 Week Other: Per SOW

Total Number of Containers: TB
 All Samples in Cooler must be on COC PH ALSO Field Measured

RELINQUISH TO: [Signature] GHD
 DATE: 12/10/15
 COMPANY: GHD
 RECEIVED BY: [Signature]
 DATE: 12/11/15
 COMPANY: MPT



Login Sample Receipt Checklist

Client: Brausch Environmental LLC

Job Number: 180-50683-1

Login Number: 50683

List Number: 1

Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ATTACHMENT C

DATA VALIDATION AND USABILITY EVALUATION
DECEMBER 2015 GROUNDWATER AND SURFACE WATER
SAMPLING



Memorandum

To: Leo Brausch [lbrausch@brauschenv.com], Jim Kay Ref. No.: 018036

From: Paul McMahon/km/5 *km* Date: January 18, 2016

CC: Kevin Lynch

**Re: Analytical Results and Reduced Validation
Groundwater and Surface Water Monitoring Program
CBS Corporation Airport Site – Cheektowaga, New York
December 2015**

1. Introduction

This document details a reduced validation of analytical results for surface water and groundwater samples collected at the Cheektowaga, New York Site on December 10, 2015. Samples were submitted to TestAmerica Laboratories, Inc. (TA), located in Pittsburgh, Pennsylvania. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2.

Standard GHD deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS), and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the documents entitled:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", United States Environmental Protection Agency (USEPA) 540 R 10 011, January 2010
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540 R 08 01, June 2008
- iii) "Groundwater and Surface Water Monitoring Program Quality Assurance Project Plan", September 2014

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 2. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times except pH. pH is a field parameter, and the associated laboratory results were qualified as estimated (see Table 3).

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Most method blank results were non-detect. Methylene chloride was detected in one method blank; associated detected sample results with similar concentrations were qualified as non-detect (see Table 4).

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the method employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were acceptable, demonstrating good analytical efficiency.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

5.1 Organic Analyses

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

5.2 Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparatory procedures, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

6.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

6.2 Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The laboratory performed additional site-specific duplicate analyses internally. The duplicate results were evaluated per the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

8. Field QA/QC Samples

The field QA/QC consisted of two trip blank samples and two field duplicate sample sets.

8.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, two trip blanks were submitted to the laboratory for VOC analysis. Most results were non-detect for the compounds of interest. Methylene chloride was detected in the surface water trip blank. All associated sample results were either non-detect or were previously qualified as non-detect, and no further action was necessary.

8.2 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, two field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the practical quantitation limit (PQL), the evaluation criterion is one times the PQL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

9. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the report limit (RL) but greater than the MDL were qualified as estimated (J) unless qualified otherwise in this memorandum.

Due to matrix interferences, dilutions were required for the lead analysis for samples collected from locations MW-2, MW-28, and MW-31. The reporting limit for lead was adjusted accordingly by the laboratory.

10. Conclusion

Based on the assessment detailed in the foregoing, the data are acceptable with the noted qualifications. These qualifications have been applied to the electronic files provided by the laboratory.

Table 1

Sample Collection and Analysis Summary
Groundwater and Surface Water Monitoring Program
CBS Corporation Airport Site
Cheektowaga, New York
December 2015

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters			Comments
				VOCs	Metals	pH/TSS	
Surface Water							
SW-18036-121015-01	1B	12/10/2015	08:00	X	X	X	
SW-18036-121015-02	1C	12/10/2015	08:40	X	X	X	
SW-18036-121015-03	2A	12/10/2015	09:15	X	X	X	
SW-18036-121015-04	2B	12/10/2015	09:30	X	X	X	
SW-18036-121015-05	3A	12/10/2015	10:00	X	X	X	
SW-18036-121015-06	2C	12/10/2015	10:30	X	X	X	
SW-18036-121015-07	2C	12/10/2015	10:30	X	X	X	DUP of SW-18036-121015-06
SW-18036-121015-08	2D	12/10/2015	11:00	X	X	X	
SW-18036-121015-09	3C	12/10/2015	11:45	X	X	X	MS/MSD/DUP
SW-18036-121015-10	3C	12/10/2015	11:45	X	X	X	
SW-18036-121015-11	3C	12/10/2015	11:45	X	X	X	
SW-18036-121015-12	3B	12/10/2015	12:15	X	X	X	
SW-18036-121015-13	1A	12/10/2015	13:00	X	X	X	
TB-18036-121015-00	-	12/10/2015	-	X			Trip Blank
Groundwater							
WG-18036-121015-DT-000	MW-34D	12/10/2015	08:45	X	X		
WG-18036-121015-SG-001	MW-34	12/10/2015	08:30	X	X		
WG-18036-121015-DT-002	MW-30	12/10/2015	09:30	X	X		
WG-18036-121015-SG-003	MW-35	12/10/2015	09:30	X	X		MS/MSD
WG-18036-121015-DT-004	MW-33	12/10/2015	10:25	X	X		
WG-18036-121015-SG-005	MW-2	12/10/2015	10:40	X	X		
WG-18036-121015-DT-007	MW-32	12/10/2015	11:50	X	X		
WG-18036-121015-DT-009	MW-32	12/10/2015	11:50	X	X		DUP of WG-18036-121015-DT-007
WG-18036-121015-SG-008	MW-28	12/10/2015	11:35	X	X		
WG-18036-121015-SG-010	MW-5	12/10/2015	13:00	X	X		
WG-18036-121015-SG-011	MW-31	12/10/2015	13:55	X	X		
TB-18036-121015-DT	-	12/10/2015	-	X			Trip Blank

Notes:

- - Not applicable
- DUP - Laboratory Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- VOCs - Volatile Organic Compounds
- TSS - Total Suspended Solids

Table 2

**Sample Holding Time Criteria and Analytical Method Summary
Groundwater and Surface Water Monitoring Program
CBS Corporation Airport Site
Cheektowaga, New York
December 2015**

Parameter	Matrix	Analytical Method	Collection to Analysis
Total Metals	Water	200.7 ⁽¹⁾	180 Days
Volatile Organic Compounds	Water	624 ⁽²⁾	14 Days
pH	Water	SM 4500 H+ B ⁽³⁾	Immediate
Total Suspended Solids	Water	SM 2540D ⁽³⁾	7 Days

Notes:

- (1) - Referenced from "Methods for the Chemical Analysis of Water and Wastes", (MCAWW), USEPA-600/4-79-020, March 1983 and subsequent revisions
- (2) - Referenced from "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", USEPA-600/4-82-057, July 1982 and subsequent revisions
- (3) - "Standard Methods for the Examination of Water and Wastewater", 20th Edition, 1999 (with subsequent revisions)

Table 3

**Qualified Sample Results Due to Holding Time Exceedances
Groundwater and Surface Water Monitoring Program
CBS Corporation Airport Site
Cheektowaga, New York
December 2015**

Parameter	Holding Time	Holding Time Criteria	Sample ID	Qualified Sample Results	Units
pH	4 days	15 minutes	SW-18036-121015-01	7.90 J	S.U.
			SW-18036-121015-02	8.19 J	S.U.
			SW-18036-121015-03	7.89 J	S.U.
			SW-18036-121015-04	11.6 J	S.U.
			SW-18036-121015-05	9.44 J	S.U.
			SW-18036-121015-06	11.7 J	S.U.
			SW-18036-121015-07	11.6 J	S.U.
			SW-18036-121015-08	7.85 J	S.U.
			SW-18036-121015-09	7.14 J	S.U.
			SW-18036-121015-12	7.22 J	S.U.
			SW-18036-121015-13	7.64 J	S.U.

Notes:

- J - Estimated concentration
S.U. - Standard Units

Table 4

**Qualified Sample Results Due to Analyte Concentrations in the Method Blank
Groundwater and Surface Water Monitoring Program
CBS Corporation Airport Site
Cheektowaga, New York
December 2015**

Parameter	Analysis Date	Analyte	Blank Result (1)	Sample ID	Original Sample Result	Qualified Sample Result	Units
VOCs	12/16/2015	Methylene Chloride	0.23 J	SW-18036-121015-03	0.24 J	1.0 U	µg/L
			1.2 J	SW-18036-121015-04	2.6 J	5.0 U	µg/L
			1.2 J	SW-18036-121015-05	3.3 J	5.0 U	µg/L
			0.69 J	SW-18036-121015-06	1.3 J	3.0 U	µg/L
			0.69 J	SW-18036-121015-07	1.4 J	3.0 U	µg/L

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

VOCs - Volatile Organic Compounds

(1) - Blank results corrected for individual sample dilution factors