



engineering and constructing a better tomorrow

February 9, 2016

Division of Environmental Remediation
Remedial Bureau E, 12th Floor
New York State Department of
Environmental Conservation
625 Broadway
Albany, New York 12233-7016

Attention: Joshua Haugh, Project Manager

Subject: **December 2015 Soil Vapor Point/Groundwater Sampling Report**
Soil Vapor Intrusion Investigation
Scobell Chemical – NYSDOT Site 828076
MACTEC Engineering and Consulting, P.C. Project No. 3617147328

Dear Mr. Haugh,

MACTEC Engineering and Consulting, P.C., (MACTEC), under contract to the New York State Department of Environmental Conservation (Work Assignment No. D007619-32) is pleased to present this letter report documenting the December 2015 soil vapor point and groundwater sampling activities and findings associated with the Scobell Chemical (Site), New York State Department of Transportation (NYSDOT) site #828076 in the town of Brighton, Monroe County, New York (Figure 1). This report presents the results of sampling from newly installed shallow bedrock monitoring wells and soil vapor implants located downgradient from the site.

BACKGROUND

The Scobell Chemical-NYSDOT site is the location of a former chemical repackaging company that operated at this location from the 1920s until 1986. The Site buildings and contaminated soil were removed from the Site in 1988 during a NYSDOT highway reconstruction project. Investigations conducted to date have identified volatile organic compounds (VOCs) in soil, bedrock and

groundwater below and surrounding the Site, primarily the chlorinated solvent trichloroethene (TCE).

VOCs, including chlorinated solvents, can partition from soil and groundwater to soil vapor and then migrate through the soil column. Soil vapor can be drawn into buildings through openings and cracks in foundations and floor slabs.

Exterior soil vapor, sub-slab soil vapor and indoor air samples were collected from commercial and residential properties surrounding the Site in 2012 and 2013. Based on TCE concentrations detected in sub-slab vapor from beneath Ellison Park Apartments, a potential exposure pathway was identified and sub-slab depressurization systems were installed to depressurize the slab of three structures at the Ellison Park Apartments Complex. Monitoring and evaluation of the complex was performed in 2015.

Additional soil vapor and groundwater sampling was conducted downgradient of the Site and complex in 2015 to evaluate the extent of the shallow groundwater plume, and to assess the potential for site contaminants to migrate to receptors via the soil vapor intrusion pathway.

GROUNDWATER AND SOIL VAPOR SAMPLING

The November 2015 groundwater and soil vapor monitoring well installations and December 2015 groundwater and soil vapor sampling were conducted as described in the 2015 Field Activities Plan (MACTEC, 2015).

A summary of these field tasks and methodologies are described in more detail below. Locations of new groundwater wells and soil vapor points are shown with labels on Figure 2. Locations on Figure 2 without labels reflect historical sampling locations.

Monitoring Well Installation and Groundwater Sampling. To evaluate groundwater conditions beyond the historical groundwater monitoring network, seven shallow overburden/bedrock downgradient monitoring wells (MW-30S to MW-36S), and one deeper bedrock well (MW-32D) were installed in November 2015. Monitoring wells were installed using four inch inside diameter augers to bedrock, and then coring bedrock to the desired depth. Monitoring wells consisted of

two-inch inside diameter polyvinyl chloride wells (PVC), with the exception of MW-32S, which was a one-inch inside diameter PVC that was nested in the same boring as MW-32D. Boring logs, well installation diagrams, and well development logs are included in Attachment 1.

As part of the drilling program, the downwind perimeter of the drilling area was monitored for VOCs using a photoionization detector (PID) and for dust using a portable dust meter. PID and dust monitor readings were within acceptable limits, with the exception of the dust monitoring over an approximate 45 minute period while drilling MW-32S/D. Although the average criteria of 100 micrograms per cubic meter above background was exceeded during this time frame, the average levels over the 2.5 hour period monitored were within acceptable limits. The PID and dust meter readings are presented in Attachment 2.

Groundwater sampling of the newly installed wells was conducted approximately three to four weeks after installation and development. Prior to groundwater sampling, a round of water levels (depth to groundwater) was obtained from the new wells and a select set of existing monitoring wells that allowed for a general observation of water level measurements (see Table 1).

Monitoring wells were sampled using low-flow sampling procedures. Field measurements and groundwater sampling activities were documented using Low Flow Groundwater Data Records which are included in Attachment 1. Upon stabilization of field parameters, groundwater samples were obtained and shipped to ALS for analysis of VOCs by United States Environmental Protection Agency (USEPA) Method 8260.

Soil Vapor Point/Implant Installation and Sampling. To evaluate if chlorinated solvents are present in soil vapor along Blossom Road and the west side of the Ellison Park Apartments, seven permanent soil vapor implants (SVP-12 to SVP-18) were installed in November 2015 approximately five feet from the newly installed shallow monitoring wells using direct push tooling to create a two-inch ID hole. Six-inch stainless steel screens with attached Teflon tubing were installed approximately six feet below ground surface, surrounded by a size 00 sand pack to approximately six inches above the screen, a three foot bentonite seal, and native backfill or sand to the ground surface. Six-inch flush mount protective casings were installed at the surface to contain the end of the tubing. Soil vapor implant details were documented using a Soil Vapor Probe Construction Diagram included in Attachment 3.

Approximately three to four weeks following installation of the implants (December 2015), soil vapor from the implants was collected. The sample tubing was purged (minimum of 3 implant volumes) with a PID. In addition, oxygen and carbon dioxide were measured using an RKI Eagle multi gas meter to compare outdoor ambient air to soil vapor concentrations. If oxygen and carbon dioxide concentrations in the soil vapor are similar to ambient air, it is likely that ambient air is being pulled into the sampling point and the integrity of the vapor implant seal is compromised. As an additional measure, helium was used as a tracer gas by filling a shroud around the sampling port with helium. After purging the implant tubing, a helium detector was used to ensure that less than 10% helium was present in the soil vapor. Measurements of helium, oxygen and carbon dioxide indicated that the samples were representative of soil vapor and the system integrity was good; however, sample point SVP-16 did not have sufficient flow to enable collection of a soil vapor sample. The soil vapor sampling records, presented in Attachment 3, includes weather, temperature and barometric pressure.

Soil vapor implant samples were collected using 1.4 liter Summa type canisters with a collection time of approximately 60 minutes. Samples were analyzed by Centek Labs of Syracuse, NY Centek Laboratories for VOCs by USEPA Method TO-15. The sample from SVP-16 was submitted to the laboratory, but had insufficient sample volume to analyze.

RESULTS

The locations of the new wells and soil vapor sample implant points, as well as the pilot study injection wells, were surveyed in December 2015 by Popli Design Group. Survey Data is included in Attachment 4, and groundwater level measurements are included in Table 1. Groundwater contours were not drawn because the groundwater flow is interpreted to be driven more by fracture flow than hydraulic head. A review of differences in water levels between the December 2014 and December 2015 rounds indicate that water levels do not fluctuate evenly across the monitoring well network, which supports the interpretation that the fracture zones are not interconnected. Groundwater from the site is interpreted to flow in a general north to northeasterly direction.

February 2016

Groundwater analytical results are presented in Table 2 and soil vapor analytical results are presented in Table 3. Data Usability Summary Reports and complete analytical results are provided in Attachment 5.

Chlorinated solvents were not detected in the western or eastern most groundwater sample locations (MW-30S, MW-31S, MW-35S, and MW-36S). TCE and its breakdown products were detected in groundwater samples from MW-32S, MW-32D, and MW-33S at concentrations above the Class GA groundwater standards, with the highest concentrations of TCE (47 milligrams per liter) detected in MW-33S, which is located within the Ellison Park Apartment complex property. Lower concentrations (below standards) were detected in the sample from MW-34S, located on the northwest corner of the Ellison Park Apartments, and MW-32S/D located along Blossom Road.

Soil vapor sample results for the chlorinated solvents appeared to mirror the corresponding groundwater sample results. Chlorinated solvents were not detected in the western or eastern most soil vapor samples (SVP-12, SVP-13, SVP-17, and SVP-18), and the highest concentration of TCE (130 micrograms per cubic meter) was detected the sample from SVP-15, which is located adjacent to MW-33.

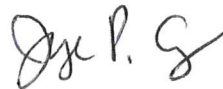
If you have questions or concerns, please feel free to contact us at 207-775-5401.

Sincerely,

MACTEC Engineering and Consulting, P.C.



Charles Staples
Technical Lead



Jayme Connolly
Project Manager

Enclosures (2)

- Attachment 1: Soil Boring, Monitoring Well, and Groundwater Sampling Field Data Records
- Attachment 2: Well Installation Air Monitoring Results
- Attachment 3: Soil Vapor Sample Field Data Records
- Attachment 4: Survey Data
- Attachment 5: Data Usability Summary Reports and Complete Analytical Results

REFERENCES

MACTEC Engineering and Consulting, P.C. (MACTEC), 2015. SVI Field Activities Plan – Scobell Chemical – NYSDOT Site No 828076 Prepared for the New York State Department of Environmental Conservation, Albany, New York. October 2015.



MACTEC

SITE LOCATION
Site 828076
Figure 1

Document: P:\Projects
SV\GIS\Contract 007619\Projects\Scobell Chemical - RD4.0_Deliverables\4.5_Database\GIS\MapDocuments\SVI_2015_Figure2_11x17P.nxd
SV\GIS\Contract 007619\Projects\Scobell Chemical - RD4.0_Deliverables\4.1_Reports\2015 SVI Report\Figures\Figure2_SV_GW_2015_11x17P.pdf
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Table 1: Monitoring Well Details and Groundwater Elevations

Monitoring Well ID	Ground Elevation (ft)	Casing Elevation (ft)	Riser Elevation (ft)	Depth to Rock (BGS)	Screen/Monitor Depth (ft) (BGS)	Top Screen/ Monitor Elevation (ft)	Bottom Screen/ Monitor Elevation (ft)	12/9/14 Depth to Water BTOC/BTOR (ft)	12/9/14 Groundwater Elevation (ft)	12/10/15 Depth to Water BTOC/BTOR (ft)	12/10/15 Groundwater Elevation (ft)
MW-1D	455.14	N/A	457.56	16.0	36 to 46	419.14	409.14	DNM	DNM	23.78	433.78
MW-01	438.84	440.47	440.63	--	33.41	--	405.43	18.04	422.59	18.22	422.41
MW-2	453.73	456.18	455.94	10.7	6 to 11	447.73	442.73	dry at 12.95	dry	DNM	DNM
MW-2D	453.59	N/A	456.14	11.1	26 to 36	427.59	417.59	24.35	431.79	24.41	431.73
MW-3D	452.15	454.72	454.42	7.5	26 to 36	426.19	416.19	21.87	432.55	21.35	433.07
MW-4S	443.64	N/A	446.29	11.7	4.5 to 14.5	439.14	429.14	14.05	432.24	14.18	432.11
MW-4M	443.73	446.24	Casing	11.0	13 to 21	430.73	422.73	14.23	432.01	16.51	429.73
MW-4D	443.63	445.99	445.88	11.7	25 to 35	418.63	408.63	16.05	429.83	14.33	431.55
MW-5S	442.70	442.70	442.36	10.7	3 to 13	439.76	429.76	10.88	431.48	DNM	DNM
MW-5D	442.48	N/A	445.02	10.7	22.5 to 32.5	419.98	409.98	14.37	430.65	14.5	430.52
MW-6S	443.10	445.57	445.10	6.0	12 to 25	431.10	418.10	~8	product on water	DNM	DNM
MW-6D	443.12	445.67	445.34	5.5	58 to 73	385.12	370.12	9.93	435.41	9.98	435.36
MW-7S	440.81	443.25	443.07	8.0	12 to 25	428.81	415.81	14.83	428.24	DNM	DNM
MW-7D	441.16	443.38	442.52	8.0	52 to 65	389.16	376.16	8.54	433.98	DNM	DNM
MW-8S	452.89	455.41	454.76	6.0	12.5 to 25	440.39	427.89	DNM	DNM	DNM	DNM
MW-8D	453.25	455.08	454.51	6.0	64.5 to 78.5	388.75	374.75	DNM	DNM	DNM	DNM
MW-9S	453.19	453.19	452.81	8.0	19 to 25	434.19	428.19	DNM	DNM	DNM	DNM
MW-9D	453.27	453.27	452.94	8.0	68 to 78	385.27	375.27	DNM	DNM	DNM	DNM
OB-1	436.85	439.78	439.58	6.5	4.5 to 9.5	432.35	427.35	10.24	429.34	DNM	DNM
MW-11D	453.46	455.34	Casing	9.6	14 to 27.5	439.46	425.96	21.37	433.97	21.86	433.48
MW-12D	444.41	446.44	Casing	12.5	15 to 36.2	429.41	408.21	12.97	433.47	12.96	433.48
MW-13D	456.11	458.21	Casing	16.0	19 to 42	437.11	414.11	24.66	433.55	24.91	433.30
MW-15D	454.10	456.13	Casing	11.0	13 to 35.9	441.10	418.20	21.92	434.21	23.62	432.51
MW-16	452.87	455.54	455.37	7.8	5 to 8	447.87	444.87	dry at 10.50	dry	DNM	DNM
MW-16D	452.87	455.53	Casing	7.8	10 to 29	442.87	423.87	21.31	434.22	21.04	434.49
MW-17D	451.76	454.42	Casing	8.1	10 to 30	441.76	421.76	20.40	434.02	20.72	433.70
MW-18D	445.25	447.06	Casing	11.3	13.3 to 28.3	431.95	416.95	12.41	434.65	DNM	DNM
MW-20	444.04	446.39	446.17	14.5	8.7 to 13.7	435.34	430.34	dry at 15.90	dry	DNM	DNM
MW-20D	444.05	446.21	Casing	12.0	14 to 31.5	430.05	412.55	15.68	430.53	DNM	DNM
MW-20DD	443.99	446.30	446.00	11.5	35.2 to 50.2	408.79	393.79	21.68	424.32	DNM	DNM
MW-21	441.85	443.99	443.83	12.5	7 to 12	434.85	429.85	9.23	434.60	9.58	434.25
MW-21D	441.71	443.93	Casing	12.5	14.5 to 29.5	427.21	412.21	9.50	434.43	10.97	432.96
MW-22D	443.74	445.67	Casing	13.7	15.5 to 30.5	428.24	413.24	17.29	428.38	DNM	DNM
MW-23	441.41	441.41	440.96	10.0	4.8 to 9.8	436.61	431.61	dry	dry	DNM	DNM
MW-23D	441.31	441.31	440.79	9.5	11.5 to 26.5	429.81	414.81	11.10	429.69	DNM	DNM
MW-24D	442.91	445.54	Casing	8.2	9.5 to 25	433.41	417.91	17.13	428.41	DNM	DNM
MW-25D	437.31	439.29	Casing	5.0	7 to 22	430.31	415.31	10.90	428.39	10.95	428.34
MW-26D	435.78	437.53	Casing	9.0	11 to 26	424.78	409.78	8.02	429.51	8.12	429.41
MW-30S	429.0	431.3	430.86	8.5	8.1 to 13.1	420.91	415.91	Not yet installed	--	7.16	424.17
MW-31S	435.6	435.6	435.21	10.2	9.4 to 13.4	426.16	422.16	Not yet installed	--	12.55	423.01
MW-32S	433.6	433.6	433.24	6.8	12 to 17	421.58	416.58	Not yet installed	--	12.89	420.69
MW-32D	433.6	433.6	433.24	6.8	19.9 to 24.9	413.68	408.68	Not yet installed	--	15.05	418.53
MW-33S	436.0	436.0	435.51	5.0	8.9 to 14.9	427.10	421.10	Not yet installed	--	6.24	429.76
MW-34S	439.7	439.7	439.25	7.0	9.9 to 14.9	429.75	424.75	Not yet installed	--	10.74	428.91
MW-35S	439.8	439.8	439.50	6.0	10.1 to 15.1	429.84	424.74	Not yet installed	--	8.01	431.83
MW-36S	440.8	440.8	440.23	9.0	10 to 15	430.78	425.78	Not yet installed	--	7.45	433.33
IW-1	452.70	452.55	Casing	8.0	10 to 35.6	442.70	417.10	Not yet installed	--	18.16	434.39
IW-2	452.56	452.25	Casing	7.5	9.9 to 36	442.66	416.56	Not yet installed	--	17.87	434.38
IW-3	452.09	451.84	Casing	7.5	10 to 36.3	442.09	415.79	Not yet installed	--	16.31	435.53
IW-4	453.01	452.69	Casing	8.5	10.5 to 36.2	442.51	416.81	Not yet installed	--	18.06	434.63
IW-6	452.47	452.23	Casing	7.4	9.4 to 36	443.07	416.47	Not yet installed	--	18.42	433.81
IW-9	452.42	452.17	Casing	8.0	10 to 22	442.42	430.42	Not yet installed	--	18.39	433.78
SVE-1	453.71	455.48	455.02	~11	--	--	442.71	dry at 10.95	dry	DNM	DNM

Depths to water are typically measured from Top of Riser; if risers are not present, then depths are measured from Top of Casing

dry = no water in well at time of measurement

BGS = below ground surface

BTOC = below top of casing

BTOR = below top of riser

DNM = Did Not Measure

GS = ground surface

Survey Data from Popli Design Group

Horizontal Datum: NAD 83(2011) New York State Plane Coordinate System, West Zone

Vertical Datum: NAVD 88

Units: U.S. Survey Feet

Table 2: Groundwater VOC Results

Location Sample Date Sample ID Qc Code		MW-30S 12/10/2015 828076-MW30S015 FS		MW-31S 12/9/2015 828076-MW31S014 FS		MW-32S 12/9/2015 828076-MW32S016 FS		MW-32D 12/9/2015 828076-MW32D024 FS		MW-33S 12/9/2015 828076-MW33S014 FS		MW-33S 12/9/2015 828076-MW33S014D FD		MW-34S 12/10/2015 828076-MW34S014 FS		MW-35S 12/10/2015 828076-MW35S014 FS		MW-36S 12/10/2015 828076-MW36S014 FS	
Parameter	GA	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Benzene	1		1 U		1 U		0.54 J		0.55 J		2 U		2 U		1 U		1 U		1 U
Chloroform	7		1 U		1 U		2 U		1 U		1 J		1.1 J		1 U		1 U		1 U
Cis-1,2-Dichloroethene	5		1 U		1 U		210		130		240		240		1.2		1 U		1 U
Methyl Tertbutyl Ether	10*		1 U		1 U		2 U		1 U		2 U		2 U		1 U		0.47 J		1 U
trans-1,2-Dichloroethene	5		1 U		1 U		11		5		3.3		3.7		1 U		1 U		1 U
Trichloroethene	5		1 U		1 U		3.8		2.4		47		47		2.2		1 U		1 U
Vinyl chloride	2		1 U		1 U		32		19		2.9		2.9		1 U		1 U		1 U

Notes:
Samples analyzed for VOCs by USEPA
Method 8260C;
Results in micrograms per liter (only detected
compounds shown) (detections in bold)
ft bgs = feet below ground surface
GA = Class GA Groundwater standards;
* designates guidance value.
(Shaded cells > standards)
Qualifier: J = estimated value; U =
compound not detected at concentration
above reporting limit.
QC Code: FS = Field Sample;
FD = Field Duplicate

Table 3: Volatile Organic Compounds in Soil Vapor

Parameter	Location	SVP-12		SVP-13		SVP-14		SVP-15		SVP-15		SVP-17		SVP-18	
	Sample Date	12/9/2015		12/9/2015		12/9/2015		12/9/2015		12/9/2015		12/9/2015		12/9/2015	
	Sample ID	828076-SVP12005		828076-SVP13005		828076-SVP14005		828076-SVP15005		828076-SVP15005D		828076-SVP17005		828076-SVP18005	
	Sample Depth	5		5		5		5		5		5		5	
Qc Code		FS		FS		FS		FS		FD		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane		0.82	U	0.82	U	0.71	J	0.82	U	0.82	U	0.82	U	0.82	U
1,2,4-Trimethylbenzene		1.5		0.69	J	0.69	J	0.59	J	0.64	J	0.79		1.7	
1,3,5-Trimethylbenzene		0.74	U	0.59	J	0.74	U	0.74	U	0.74	U	0.74	U	0.74	
2-Butanone		0.88	U	1.4		0.88		0.62	J	0.65	J	0.71	J	0.5	J
2-Propanol		0.37	U	0.37	U	0.37	U	0.37	UJ	7.9	J	0.37	U	0.37	U
Acetone		0.71	U	3.1		4.4		2	J	3.9	J	3.2		0.71	U
Benzene		0.48	U	0.48	U	0.45	J	1.3		1.3		0.48	U	0.48	U
Bromodichloromethane		1	U	1	U	1	U	1.2		1.2		1	U	1	U
Carbon disulfide		200		6.2		3.5		2		2		3.5		5.3	
Chloroform		0.73	U	0.73	U	0.73	U	27		23		0.73	U	1.1	
Cis-1,2-Dichloroethene		0.59	U	0.59	U	0.59	U	6.5		6.4		0.59	U	0.59	U
Cyclohexane		75		0.41	J	0.52	U	0.76		0.76		0.52	U	0.52	U
Dichlorodifluoromethane		2.3		2.5		2.2		2.4		2.4		2.5		2.4	
Ethylbenzene		3.2		0.96		2		0.91		0.87		1.5		1	
Heptane		2.5		0.53	J	0.61		0.61	U	0.61	U	0.49	J	0.53	J
Hexane		31		0.53	U	0.53	U	0.46	J	0.53		0.53	U	0.63	
Isooctane		24		0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
Methylene chloride		0.56		0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U
Tetrachloroethene		1	U	1.1		3.8		81		72		1.1		1	U
Toluene		160		650		200		120		98		190		2.6	
trans-1,2-Dichloroethene		0.59	U	0.59	U	0.59	U	0.91		0.59	U	0.59	U	0.59	U
Trichloroethene		0.81	U	0.81	U	12		130		110		0.81	U	0.81	U
Trichlorofluoromethane		1.3		1.5		7.5		1.1		1.1		1.3		1.1	
Xylene, o		1.9		0.61	J	1.3		0.65		0.65		1.3		1.3	
Xylenes (m&p)		5.8		1.7		4.7		1.5		1.5		4.9		3.7	

Notes

Samples analyzed for Volatile Organic Compounds (VOCs) by Method TO15 in micrograms per cubic meter (µg/m3). Only detected compounds shown (detections in bold)
 Qualifier
 U = not detected
 J = estimated value
 QC Code - FS=Field Sample, FD=Field Duplicate

ATTACHMENT 1

**SOIL BORING, MONITORING WELL, AND
GROUNDWATER SAMPLING FIELD DATA RECORDS**

SOIL BORING LOG															
MACTEC				Project Name: <u>Scofield Chemical</u>				Boring ID: <u>MW-305</u>							
511 Congress Street, Portland Maine 04101				Project Location: <u>Brighton/Rochester, NY</u>				Page No. <u>1</u>							
Boring Location: <u>On Ramp 590</u>				Project No.: <u>3617147328</u> Client: <u>NYSDOC</u>				of: <u>1</u>							
Weather: <u>Sunny, 40° F, calm</u>				Refusal Depth: <u>8.5'</u>				Total Depth: <u>135'</u>							
Subcontractor: <u>Geologic</u>				Soil Drilled: <u>8.5'</u>				Method: <u>HSA 4" case/core</u>							
Driller: <u>Steve Lawrence</u>				P.I.D (eV): <u>10.6</u>				Projection Level: <u>D</u>							
Rig Type/Model: <u>CME Trailer</u>				Date Started: <u>11/9/15</u>				Date Completed: <u>11/9/15</u>							
Reference Elevation:				Logged By: <u>J. Rawcliffe</u>				Checked By: <u>RMG</u>							
Water Level: <u>4.94 BGS</u>				Time: <u>11/12/15</u>				Hammer Wt/Fall: <u>140lb/30"</u>							
Hammer Type: <u>Auto hammer</u>															
Sample Information				Monitoring				Sample Description and Classification				USCS Group Symbol		Remarks	
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID							
0.0															
1	NA	NA	NA	NA	1.5	-	NA	NA	Top soil - Dark brown silt with fine sand and a little m-c sand (loamy).				FI		
2									Brown to dark brown silty fine sand with traces of coarser material. Encountered some cobbles at ~2.5-3' BGS				SP/SM (FI?)	Cobbles at ~3' BGS	
3					0.9										
4															
5					1.4				Gravel/Cobbles at 5-6'				SP (FI?)		
6									Brown to dark brown fine sand with some silt and traces of m-coarse sand				SP		
7					2.6				Moist. Quite uniform material from 3-8.5' becoming more moist with depth. Refusal with cobbles at 8-8.5'						
8					1.8										
9									11/15 Start 5' core run ~8.5'						
10									Gray dolomitic limestone generally horizontal bedding with occasional angled 30-40° or high angle fractures.						
11															
12									5.4 Poss. weathered fuel odor						
13															
14															
15									Bottom of boring ~13.3' Could be 13.5' BGS						

NOTES:

FIGURE 4.4

SOIL BORING LOG

NYSDOC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: <u>Scolbell Chemical</u>	Boring ID: <u>MW-31 S</u>
Project Location: <u>Brighton/Rochester, NY</u>	Page No. <u>1</u>
Project No.: <u>3617147328</u> Client: <u>NYSDDEC</u>	of: <u>1</u>
Boring Location: <u>1275 Blossom Village</u>	Refusal Depth: <u>10.2</u> Total Depth: <u>14.9'</u>
Weather: <u>Overcast, 40-50°F</u>	Soil Drilled: <u>10.2</u> Method: <u>HSP/Casey/Cone</u>
Subcontractor: <u>Geologic</u>	P.I.D (eV): <u>10.6</u> Projection Level: <u>D</u>
Driller: <u>Steve Laramie</u>	Date Started: <u>11/10/15</u> Date Completed: <u>11/10/15</u>
Rig Type/Model: <u>CME-45C - Truiber</u>	Logged By: <u>J. Rawcliff</u> Checked By: <u>RMS</u>
Reference Elevation:	Water Level: <u>12.7' BGS</u> Time: <u>12/15</u>
	Hammer Type: <u>Autolammer</u>

Sample Information				Monitoring				Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed			
0.0										
1			NA	NA	0.9			0 ≈ 1 Dark brown loamy topsoil silt and fine sand with traces organics and coarser sand.	F-11	
2					2.1			Becomes brown to dark yellow brown fine sand and silt with a little m-c sand.		
3					1.8			Very moist.		
4										
5										
6	51	1.4 2.0			10.3			Brown to dark yellow brown fine sand with some silt and a trace no little med to coarse sand. Very moist at top moist becomes less moist and more sandy at bottom.	SP/SM	Day Headspace PID creeps up slowly as high as 15ppm
7										
8	52	0.2 2.0						Cobble ≈ 7-7.5' very little recovery with spoon fine sand with a little m-c sand and silt. Moist to slightly moist some rock fragments.	SP	6.0 with moisture filter.
9										
10								Top of Bedrock ≈ 10.2' BGS		
11	142				10.5-10.6	Vuggy		Cored 5' Recovered 4.3' Void at 13' (12.8-13.1) Borehole opens to 14.7'	Test	Start Core Run 1055
12					0.2 0.5	(Drill bit)		Vuggy area 10.5-10.6' BGS		
13	72 42				0.6			Generally horizontal bedding and fracture planes large fracture 12.8-13.1 with light brown weathering rind on both faces (top 0.05-0.1' thick on either face. Trace of vertical fracture 13.1-13.4' BGS.		≈ 13' Hit a void and lost water.
14	52 42				0.4			14.4' Bottom of recovery.		Getting no return on water
15								Bottom of bore = 14.7' BGS.		
16										≈ 14.5' Completed Core Run to ≈ 15' BGS

NOTES:

432
542 = 80% = RWD

FIGURE 4.4

SOIL BORING LOG

NYSDDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: Scolbell Chemical Boring ID: MW-32S
 Project Location: Brilliant/Rochester, NY Page No. 1
 Project No.: 3617147328 Client: NYSDEC of: 2
 Boring Location: Blossom Rd Entry to R61E Refusal Depth: 7' Total Depth: 25.2' BGS Bore Hole ID/OD: 4"
 Weather: Mostly cloudy, windy, 45-55 Soil Drilled: 7' Method: HSA/Casing/Cone Casing Size: 4" ID
 Subcontractor: Geologic P.I.D (eV): 10.6 Projection Level: D Sampler: NA Core 3 7/8"
 Driller: Steve Harris Date Started: 11/18/15 Date Completed: 11/19/15 Sampler ID/OD: NA
 Rig Type/Model: CME-453 Trailer Logged By: J. Rowcliffe Checked By: RMS Hammer Wt/Fall: 140lb/30"
 Reference Elevation: Water Level: 13.0' BGS Time: 11/19/15 0800 Hammer Type: Safety Autol Hammer

Sample Information					Monitoring				Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID			
0.0											
1			NA	NA	0.2				0-1.5 Dark brown loamy topsoil - f-m sand and silt with a little gravel.	FI	
2					0.0				Encountering cobblestones at ~3.5'		
3									Brown		
4									Appears to be fine to coarse sand and gravel with a little silt.	SP	
5											PIN = 0.1-0.6 ppm on discharge air/water/soil
6											6.0' Refusal with drive point and 4" casing
7									Coarse grained fossiliferous		1510 Start core run
8	Run #1				0.1				Brown weathered		
9					0.1				Brownish weathered		
10	Run #1				0.2				Gray fine grained dolomitic limestone, well developed bedding/layers has banded appearance		
11					0.1				Bedding planes near horizontal very slightly deformed with breccias/fractures along bedding planes		
12					0.1						1550
13	Run #2				0.0				Muddy infilled fracture		1618
14					0.0				Gray banded horizontal bedding similar to Run #1		
15					0.1				3 Fracture are horizontal + vertical		
16	Run #2				0.1				- Coarser grained area		
									- Vertical Break/Fracture		
					0.0						
					0.0				Higher angle fracture/break 20-30°		
									- Broken up zone		

NOTES: End of Day
 FIGURE 4.4
 SOIL BORING LOG
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: *Scolbell Chemical*

Boring ID: *MW-32S*

Project Location: *Brulston/Rochester, NY*

Page No. *2*

Project No.: *3617147328* Client: *NYSDEC*

of: *2*

Boring Location: *Blossard Embankment*

Refusal Depth: *7'*

Total Depth: *25.2' BGS*

Bore Hole ID/OD: *4"*

Weather: *Mostly cloudy w/ E breeze*

Soil Drilled: *7'*

Method: *HSA/Casing/Core*

Casing Size: *4"*

Subcontractor: *Geologic*

P.I.D (eV): *10.6*

Projection Level: *0*

Sampler: *Core N 378*

Driller: *Steve Laramie*

Date Started: *11/18/15*

Date Completed: *11/19/15*

Sampler ID/OD: *—*

Rig Type/Model: *CMB-453 Trailer*

Logged By: *J. Rawlitz*

Checked By: *R. M. S.*

Hammer Wt/Fall: *140 lb/30"*

Reference Elevation:

Water Level: *13.0 BGS*

Time: *11/19/15 0800*

Hammer Type: *Amabilty 1/2" hammer*

Sample Information					Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed			
0.0										
17	<i>Run #3</i>				0.1	9"		<i>Coarse grained, dolomitic limestone well developed horizontal bedding planes. some possible weathering along angle "deformation" structure with occasional coincident fractures. Generally fractures/breaks are horizontal along bedding planes (50)</i>		<i>0804 Strat Run #3 PID = 0.2-0.4 ppm on and below discharge</i>
18					0.0	5"				
19					0.0	7"				
20					0.0	9"				
21					0.1	17.5"				<i>PID = 0.2-0.3 ppm</i>
22	<i>Run #4</i>				0.0			<i>Horizontal breaks along bedding</i>		<i>0856 0928</i>
23					0.1			<i>Fracture zone - bedding and low angle deformation. Trans high angle breaks</i>		<i>PID = 0.3-0.4 ppm</i>
24					0.0			<i>Bedding plane breaks/fractures.</i>		
25					0.1			<i>No evident weathering.</i>		
								<i>Bottom of boring = 25.2' BGS</i>		

NOTES:

FIGURE 4.4

SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: Scobell Chemical
 Project Location: Brighton/Rochester, NY
 Project No.: 3617147328 Client: NYSDEC
 Boring ID: MW-335
 Page No. 1
 of: 1
 Boring Location: 5 of Blosson Bore
 Weather: Overcast, light rain 50-55
 Subcontractor: Geologic
 Driller: Steve Lawrence
 Rig Type/Model: LM E-453 Trailer
 Reference Elevation:
 Refusal Depth: 5'
 Soil Drilled: 5'
 P.I.D (eV): 10.6
 Date Started: 11/12/15
 Logged By: J. Rawcliffe
 Water Level: 6.6' BGS
 Total Depth: 14.9'
 Method: HSA/Casing/Cure
 Projection Level: D
 Date Completed: 11/13/15
 Checked By: RMS
 Time:
 Bore Hole ID/OD: 42
 Casing Size: 42
 Sampler: NA
 Sampler ID/OD: NA
 Hammer Wt/Fall: 140/50"
 Hammer Type: Safety Hammer

Sample Information					Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed			
0.0										
1			1	1	0.2			0 - 0.3' Asphalt		
2					0.3			0.3 - 5' Brown fine to coarse sand and gravel with a little silt (F.I.D)	Fill	
3					0.1					
4								Encountered something hard at 5'	51/60	Encountered something very hard at = 5.1' BGS
5										
6	5"				0.0			5-5.6 Gray to light gray horizontal bedding vuggy	U930	Core Run 1
7	4"				0.0			Weathered/weathery on either side of void		
8	5"				0.0			Mostly subhorizontal fractures with some high angled 20-35° fractures/cracks.	1000	RQD = 60%
9	4"				0.0			Horizontal to subhorizontal fractures with no visible weathering	1114	
10	5"				0.0					
11	4"				0.0			slightly vuggy	1207	
12					0.0			Gray fine grained dolomitic limestone with slightly deformed generally horizontal bedding and occasional fissures along bedding		
13					0.0			Some minor fossil area.		
14					0.0					
15					0.0			new vertical crack/crack		
16								Bottom of boring = 14.9' BGS		

NOTES:

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: *Scobell Chemical*

Boring ID: *MW-345*

Project Location: *Brighton/Rochester, NY*

Page No. *1*

Project No.: *3617147328* Client: *NYSDOT*

of: *1*

Boring Location:

Refusal Depth: *7.0 BGS*

Total Depth: *15.2' BGS*

Bore Hole ID/OD: *4"*

Weather: *Cloudy, 45-50°, windy*

Soil Drilled: *7.0*

Method: *Hand/Casing/Core*

Casing Size: *4"*

Subcontractor: *Geologic*

P.I.D (eV): *10.6*

Projection Level: *D*

Sampler: *NA*

Driller: *Steve Lavigne*

Date Started: *11/13/15*

Date Completed: *11/16/15*

Sampler ID/OD: *NA*

Rig Type/Model: *CMC-455 trailer*

Logged By: *J. Rawel*

Checked By: *P. MB*

Hammer Wt/Fall: *140lb/30"*

Reference Elevation:

Water Level: *11.1' BGS*

Time: *11/15 0800*

Hammer Type: *Auto safety hammer*

Sample Information					Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed			
0.0										
1			NA	0.0				0-1 Dark Brown loamy topsoil		Soft dig to 4'
2				0.0				1-2.5 Brown to dark yellow brown fine to coarse sand with some silt and gravel. Moist (Fill)	Fill	
3				0.0				2.5-4 Brown to dark brown fine to coarse sand with some gravel and silt. Moist, lots of tree roots.	SP	Soft dig to 4' casing at 4' BGS
4				0.0				4-7 Not much in the way of cuttings		
5								Brown fine to coarse sand with a little silt and gravel.		
6				0.0						
7								Refusal with casing at 7'		
8				0.0				Tr. comp to 7.5' - Start core run at 7.5'		11/13/15 Core 1300
9				0.0				Grayish brown fine to medium grained detrital clastic material weathered appearance at top becoming less weathered with depth.		7.5-8.5' then run out of water or stop for the week.
10				0.0				Horizontal bedding with fracturing breaks along bedding and frequent vertical breaks/fractures.		11/16/15 Resume core at 8.5' using air/water.
11				0.0				Weathered brownish trace vugs		
12				0.0				Fossiliferous slightly waxy		
13				0.0				Gray to brown fine grained		
14				0.0				some minor fossils		
15				0.0				Horizontal bedding with breaks/fractures along bedding planes.		
								Bottom of Boring 15.2' BGS		

NOTES:

FIGURE 4.4
SOIL BORING LOG

NYSDOT QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: *Scobell Chemical*

Boring ID: *MW-355*

Project Location: *Brighton/Rochester, NY*

Page No. *1*

Project No.: *361747328* Client: *NYSDEC*

of: *1*

Boring Location: *West side parking lot*

Refusal Depth: *6'*

Total Depth: *15'*

Bore Hole #/OD: *4" O.D. 3" B.R.*

Weather: *Sunny, cool*

Soil Drilled: *6'*

Method: *HS/Coating/Cone*

Casing Size: *4"*

Subcontractor: *Geologic*

P.I.D (eV): *10.6*

Projection Level: *D*

Sampler: *Core 3"*

Driller: *Steve Laramie*

Date Started: *11/17/15*

Date Completed: *11/18/15*

Sampler ID/OD: *---*

Rig Type/Model: *CME-455 Trailer*

Logged By: *J. Rawcliffe*

Checked By: *RMB*

Hammer Wt/Fall: *140lb/30"*

Reference Elevation:

Water Level: *7.6' BGS*

Time: *11/18/15 0735*

Hammer Type: *Auro Safety*

Sample Information					Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed			
0.0										
1					0.0			0-0.2' Asphalt	Fill	
2					0.1			0.2-2' Brown fine to coarse sand with gravel and a little silt (Subgrade Fill)		
3					0.0					
4					0.0			Start encountering cobbles at 3.4 BGS		
5								Estimate Brown f-c sand and gravel with some cobbles and silt.		Discharge air/water soil = 0.5-0.9 ppm
6								Possible		Drive casing to refusal at 6'
7					0.0	7"		weathered (brownish) with minor vugs		1628 Start Core Run at 6'
8					0.1	5"		weathered (brownish) slight weathered minor vuggy area		1638 Stop to Pick up
9					0.0	5"		50-100 fms with weathered face.		1645 Resume core
10					0.2	5"		Generally horizontal to subhorizontal breaks - fractures along bedding planes. Some slightly higher angle fractures 5-15° fine to medium grained clastic limestone		Discharge air/water = 0.5-1.0 ppm
11					0.1	6"		10-15° fracture sand vuggy areas minor fossiliferous and layers.		
12					0.0	7"		Weathered face		11.3' 1056 11/17/15
13					0			Numerous breaks/fractures horizontal to subhorizontal parallel to bedding plane. Rock becoming fossiliferous finer grained.		11/18/15 0806
14					0.1			No obvious weathering or weathering rind around fractures.		Rock becomes harder by 12' BGS
15					0			Bottom of boring = 15' BGS		0828

NOTES:

FIGURE 4.4

SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG



511 Congress Street, Portland Maine 04101

Project Name: *Scolbell Chemical*

Boring ID: *MW-365*

Project Location: *Brighton/Rochester, NY*

Page No. *1*

Project No.: *3617147328* Client: *NYSDOT*

of: *1*

Boring Location: *South Bohemia Drive*

Refusal Depth: *9' BGS*

Total Depth: *15' BGS*

Bore Hole ID/OD: *4"*

Weather: *Sunny, cool 30-40°F*

Soil Drilled: *9'*

Method: *HS4/Casing/Case*

Casing Size: *4"*

Subcontractor: *Geologic*

P.I.D (eV): *10.6*

Protection Level: *D*

Sampler: *NA*

Driller: *Steve Lammie*

Date Started: *11/17/15*

Date Completed: *11/17/15*

Sampler ID/OD: *NA*

Rig Type/Model: *CME-453 Trailer*

Logged By: *J. Rawcliffe*

Checked By: *RWB*

Hammer Wt/Fall: *140 lbs/30"*

Reference Elevation:

Water Level: *7.85' BGS*

Time: *11/18/15*

Hammer Type: *Awo Sderghammer*

Sample Information					Monitoring			Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed			
0.0										
1					0.0			0-1.0 Dark brown fine to coarse sand and silt with trace gravel and organics (Fill)		Loamy topsoil
2					0.2			1-2 Brown to dark yellow brown fine to coarse sand and gravel with a little silt (Fill)		
3					0.1			2-5 Brown to dark yellow brown fine to coarse sand and gravel with some cobbles and a little silt. Moist.	SP/CP	
4					0.0					
5					0.0					
6										
7					0.0			5-9 Brown to dark yellow brown fine to coarse sand with a little gravel and silt. Moist.	SP	
8					0.0					
9										
10	21	Core 4.0	9-13.6		0.1		7"	10-11 Slightly brownish weathers		1118
11		4.0			0.1		5"	Generally gray to light gray fine grained silty clay with horizontal bedding and many small		
12					0.1		4"	limestone with horizontal bedding and many small		
13					0.1		10"	along bedding. Occasional subhorizontal		
14					0.1		7"	3-Minor beds of fine to medium sand and some high angle beds (80°)		
15					0.1		6"	- Break with weathered fine and medium sand.		
16					0.1		5"			
17					0.0		7"			1148
18					0.1		7"			1158
19					0.1					
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NOTES:

FIGURE 4.4

SOIL BORING LOG

NYSDOT QUALITY ASSURANCE PROGRAM PLAN

WELL/PIEZOMETER CONSTRUCTION DIAGRAM STICKUP

LOCATION ID: MW-305

Project Name: Scobell Chemical

Date Started: 11/9/15 Date Completed: 11/10/15

Project Location: Rochester/Brighton, NY

Logged By: J. Rawcliffe

Project Number: 3617147328 Task Number 05

Checked By: RMB Checked Date: 12/21/15

Subcontractor: Geologic Drilling Method: HSA/Casing/Core

Development Method: Pump + surge Development Date: 11/19/15

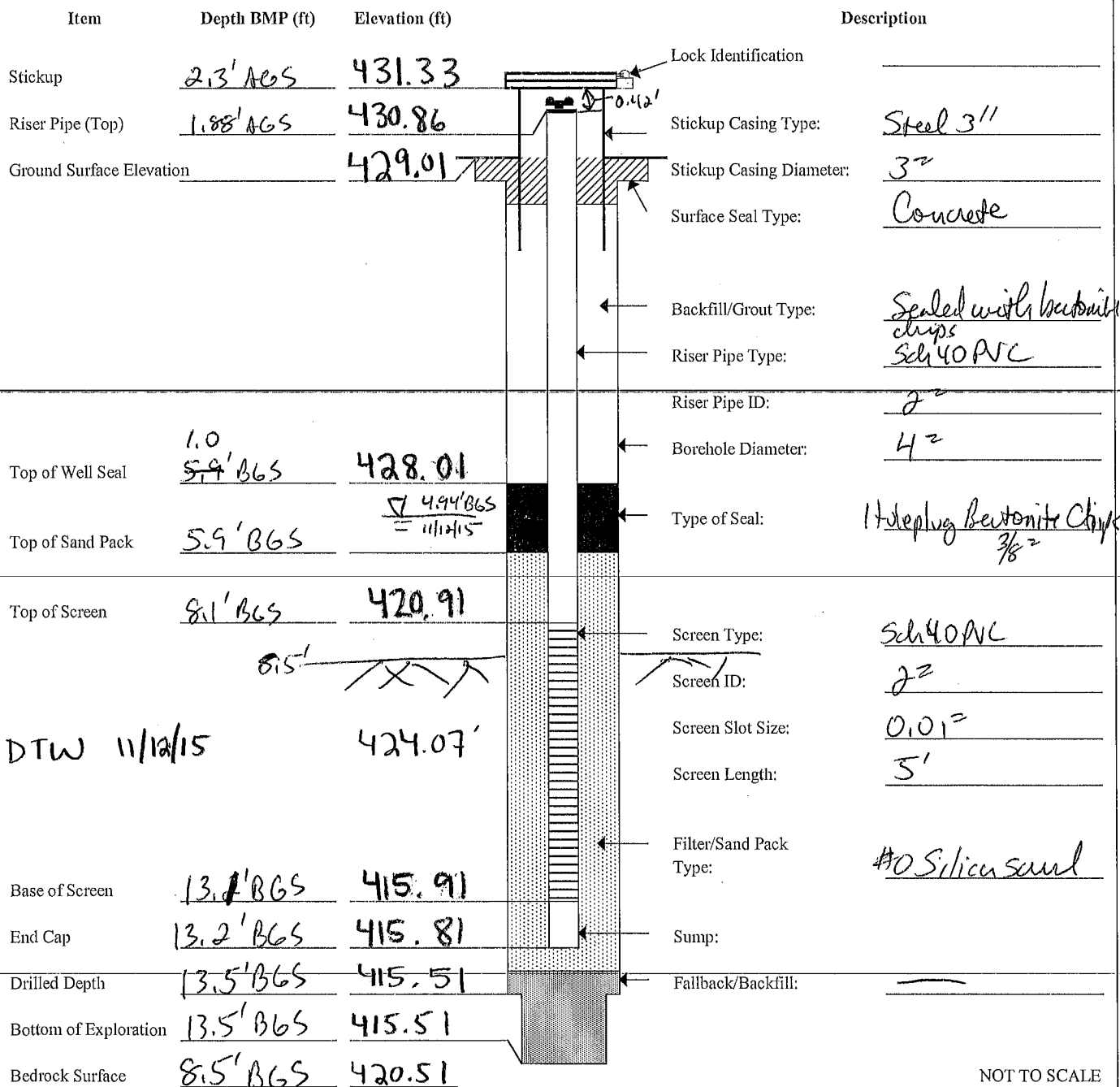
Bucking Posts/Ballards: NA

Notes:

Measuring Point Information

Measuring Point (MP) Type: Top Of Riser

MP Elevation (ft): 430.86



NOT TO SCALE

WELL/PIEZOMETER CONSTRUCTION DIAGRAM FLUSHMOUNT

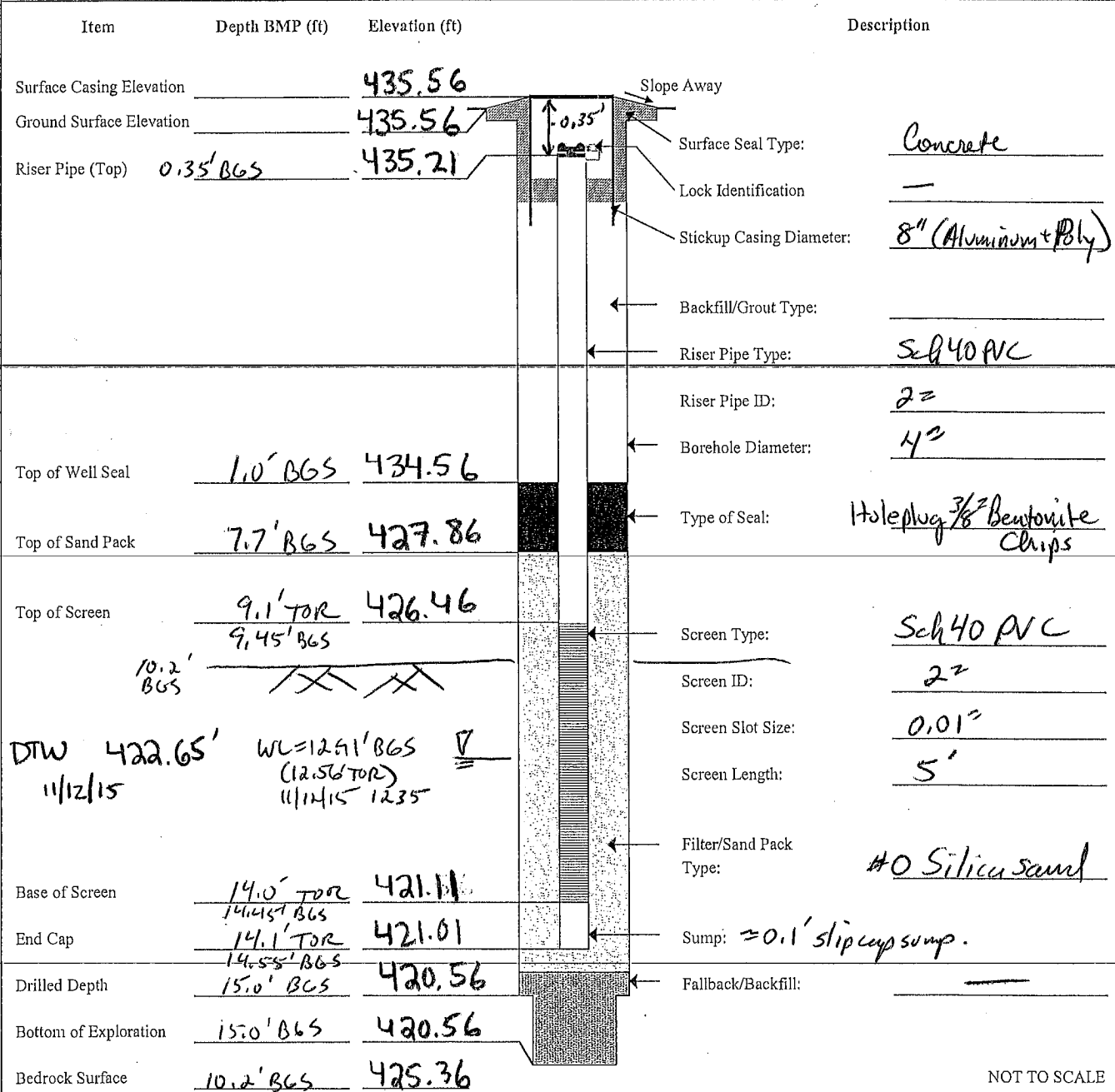
LOCATION ID: MW-315

Project Name: Scohell Chemical
 Project Location: Brighton/Rochester, NY
 Project Number: 3617147328 Task Number: 05
 Subcontractor: Geologic Drilling Method: HSA/4" casing/Cor
 Development Method: Pump+surge RB Development Date: 11/19/15
 Bucking Posts/Ballards: NA
 Notes: _____

Date Started: 11/10/15 Date Completed: 11/10/15
 Logged By: J. Rawcliffe
 Checked By: RMB Checked Date: 12/21/15

Measuring Point Information

Measuring Point (MP) Type: Top Of Riser
 MP Elevation (ft): 435.21



WELL/PIEZOMETER CONSTRUCTION DIAGRAM FLUSHMOUNT

LOCATION ID:

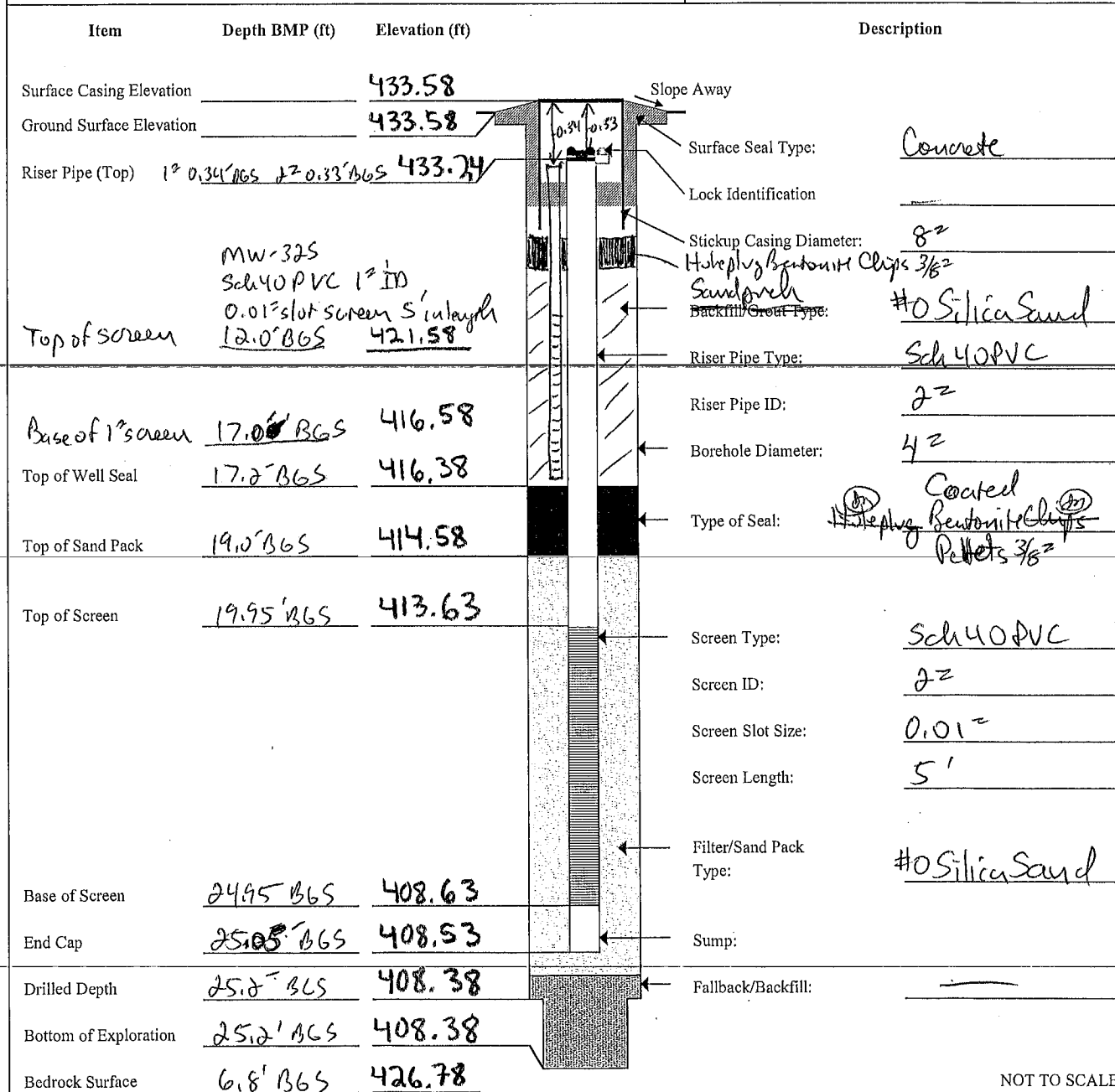
MW-32

Project Name: Schoell Chemical
 Project Location: Brighton/Rochester, NY
 Project Number: 3617147328 Task Number: 105
 Subcontractor: Geologic Drilling Method: HSA Flaming/Cure
 Development Method: Pump + surge Development Date: 10/20/15
 Bucking Posts/Ballards: NA
 Notes:

Date Started: 11/18/15 Date Completed: 11/19/15
 Logged By: J. Rawcliffe
 Checked By: RMB Checked Date: 12/21/15

Measuring Point Information

Measuring Point (MP) Type: Top Of Riser
 MP Elevation (ft): 433.24



NOT TO SCALE

WELL/PIEZOMETER CONSTRUCTION DIAGRAM FLUSHMOUNT

LOCATION ID:

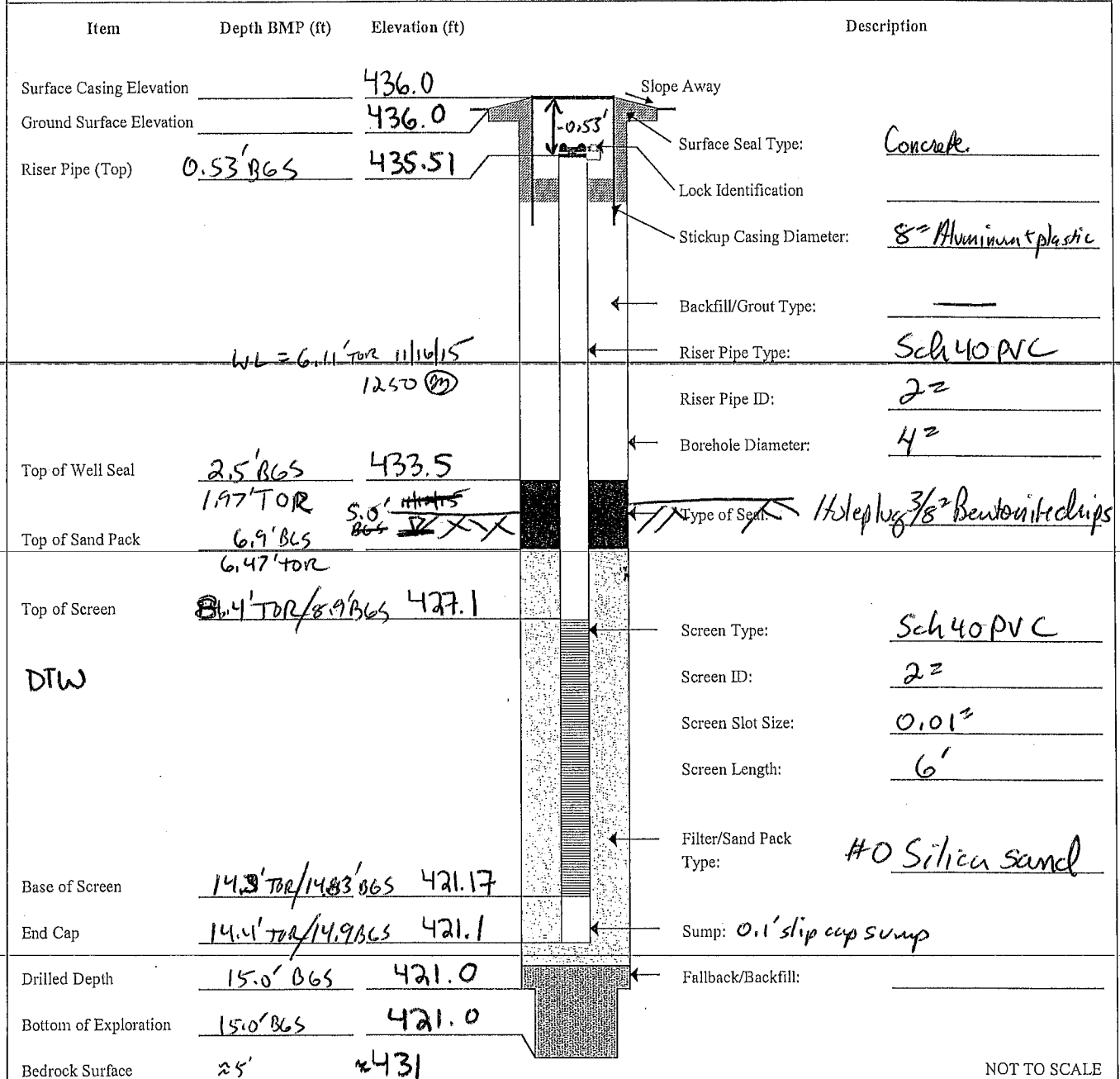
MW-335

Project Name: Schoell Chemical
 Project Location: Brighton/Rochester, NY
 Project Number: 3617147328 Task Number: 105
 Subcontractor: Geologic Drilling Method: HSA/Casing/Core
 Development Method: Pump + Surge RMB Development Date: _____
 Bucking Posts/Ballards: NA
 Notes: _____

Date Started: 11/12/15 Date Completed: 11/12/15
 Logged By: J. Rawcliffe
 Checked By: RMB Checked Date: 12/21/15

Measuring Point Information

Measuring Point (MP) Type: Top Of Riser
 MP Elevation (ft): 435.51



WELL/PIEZOMETER CONSTRUCTION DIAGRAM FLUSHMOUNT

LOCATION ID:

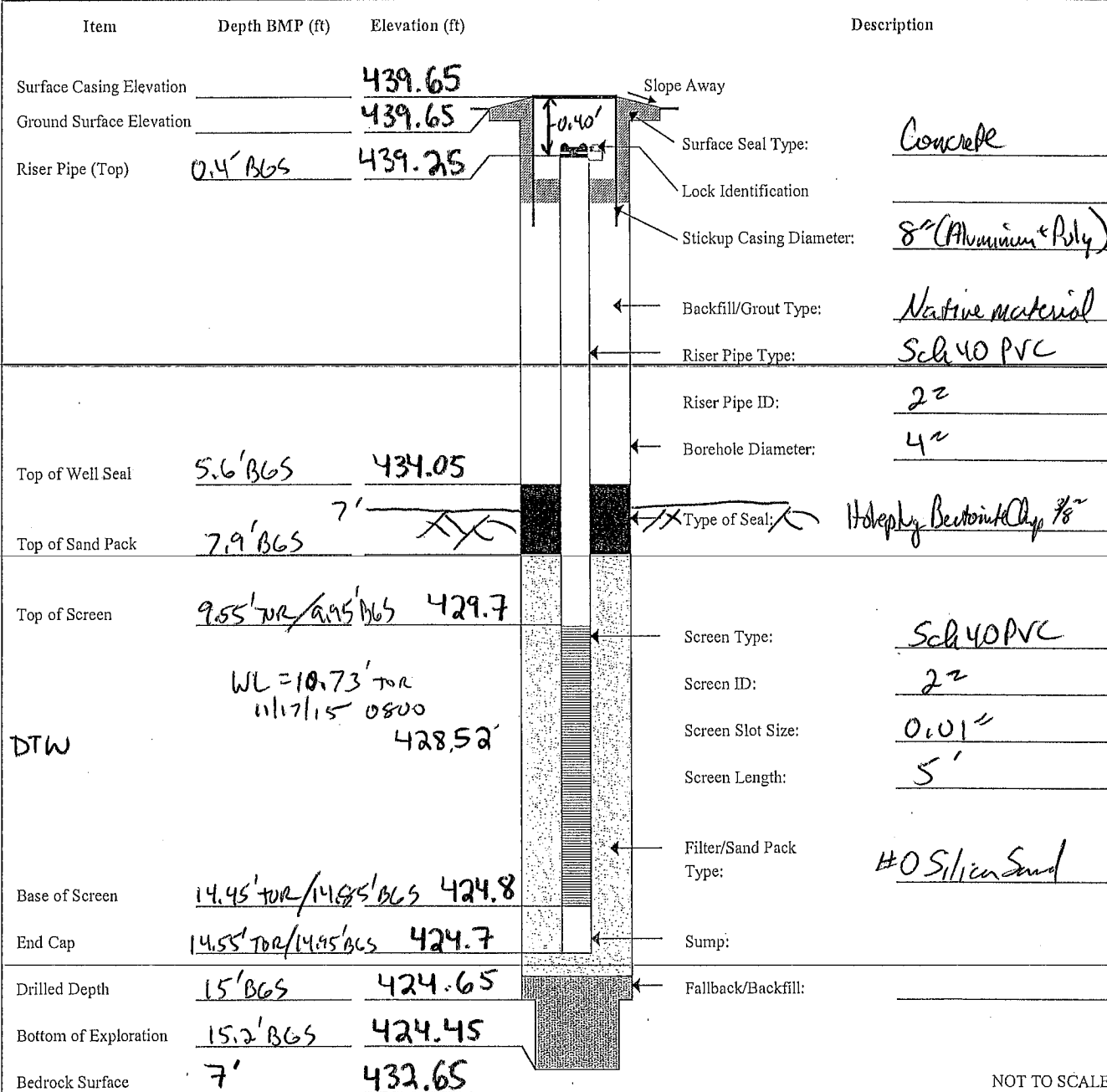
MW-345

Project Name: Schoell Chemical
 Project Location: Brighton/Rochester, NY
 Project Number: 3617147328 Task Number: 105
 Subcontractor: Geologic Drilling Method: HSA/Casing/Core
 Development Method: Pump + surge PB Development Date: _____
 Bucking Posts/Ballards: NA
 Notes: _____

Date Started: 11/13/15 Date Completed: 11/16/15
 Logged By: J. Rawliff
 Checked By: RMB Checked Date: 12/21/15

Measuring Point Information

Measuring Point (MP) Type: Top Of Riser
 MP Elevation (ft): 439.25



NOT TO SCALE

WELL/PIEZOMETER CONSTRUCTION DIAGRAM FLUSHMOUNT

LOCATION ID:

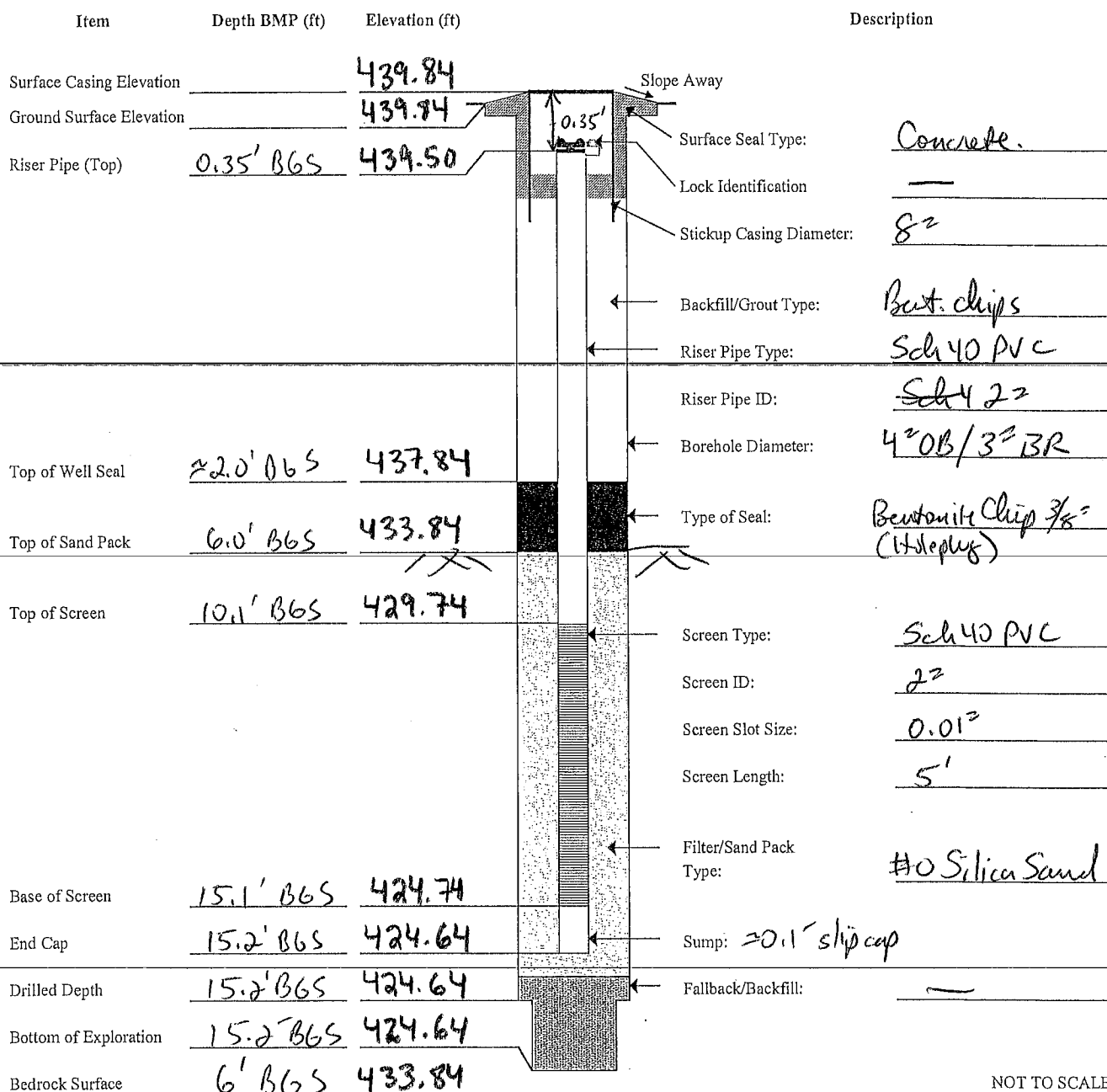
MW-35S

Project Name: Scofield Chemical
 Project Location: Brighton/Rochester, NY
 Project Number: 3617147328 Task Number: 05
 Subcontractor: Geologic Drilling Method: HSA/Casing/Care
 Development Method: Pump+Seal Development Date: 11/20/15
 Bucking Posts/Ballards: NA

Date Started: 11/17/15 Date Completed: 11/18/15
 Logged By: J. Rawe/lfh
 Checked By: RMB Checked Date: 12/2/15

Measuring Point Information

Measuring Point (MP) Type: Top Of Riser
 MP Elevation (ft): 439.50



NOT TO SCALE

WELL/PIEZOMETER CONSTRUCTION DIAGRAM FLUSHMOUNT

LOCATION ID:

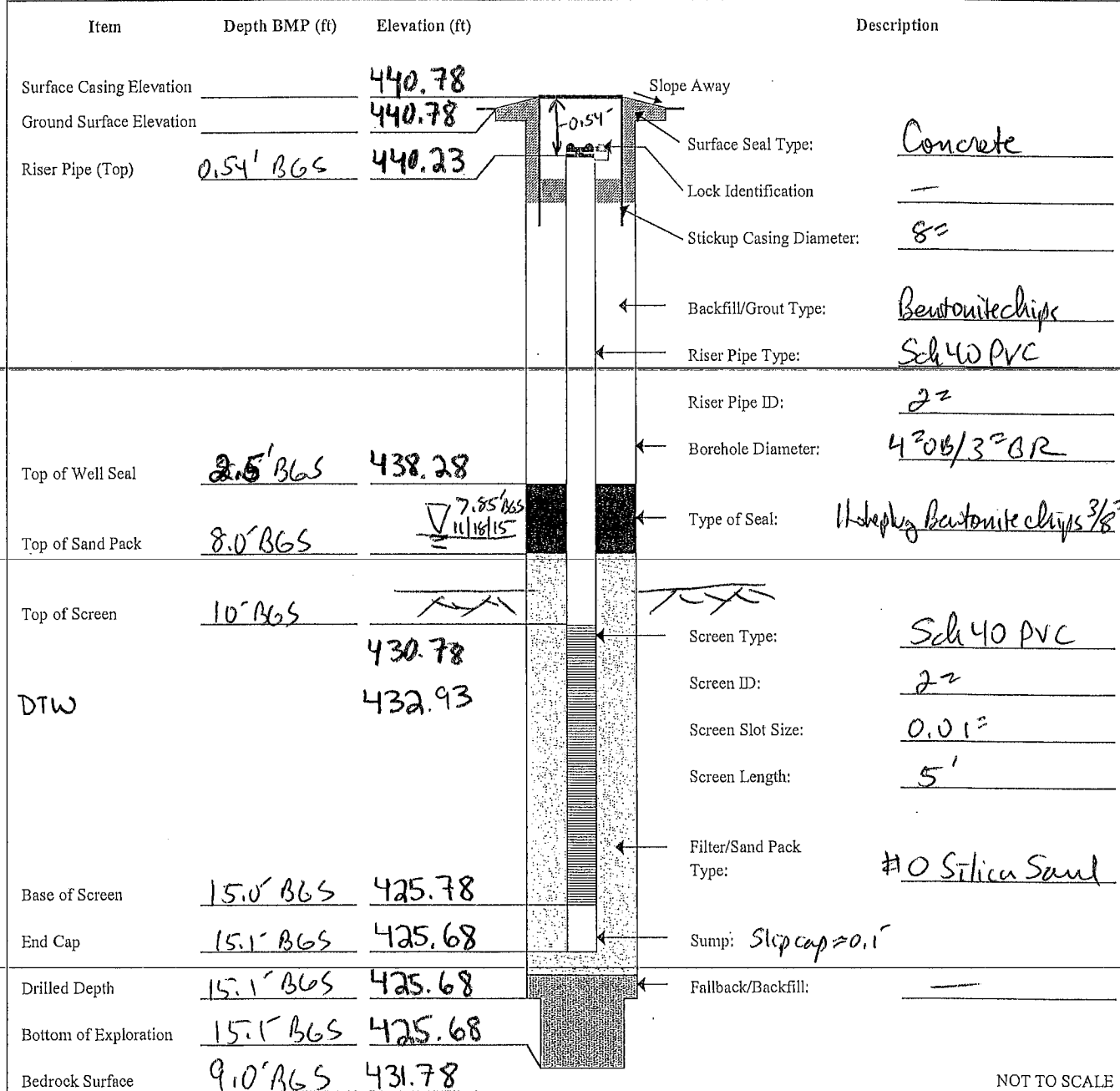
MW-36 S

Project Name: Schoell Chemical
 Project Location: Brighton/Rochester, NY
 Project Number: 3617147328 Task Number: 105
 Subcontractor: Geologic Drilling Method: HSB/Casing/Cone
 Development Method: Pump Surge Development Date: 11/20/15
 Bucking Posts/Ballards: NA
 Notes: _____

Date Started: 11/17/15 Date Completed: 11/17/15
 Logged By: J. Rawcliffe
 Checked By: RMB Checked Date: 12/21/15

Measuring Point Information

Measuring Point (MP) Type: Top Of Riser
 MP Elevation (ft): 440.23



NOT TO SCALE

WELL DEVELOPMENT RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME <u>Scobell Chemical</u>	
PROJECT NUMBER <u>3617147328.05</u>	
WELL INSTALLATION DATE <u>11/19/15</u>	WELL DEVELOPMENT DATE <u>11/20/15</u>

LOCATION ID <u>mw-32D</u>	PAGE <u>1</u> OF <u>1</u>
START TIME <u>1345</u>	START DATE <u>11/20/15</u>
END TIME <u>1620</u>	END DATE <u>11/20/15</u>

WELL DIAMETER (INCHES)	☐ 1-IN.	☒ 2-IN.	☐ 4-IN.	☐ 6-IN.	☐ 8-IN.	☐ OTHER	
CASING DIAMETER (INCHES)	☒ 4-IN.	☐ 6-IN.	☐ 8-IN.	☐ 10-IN.	☐ 12-IN.	☐ OTHER	
MEASUREMENT POINT (MP)	☒ TOP OF RISER (TOR)	☐ TOP OF CASING (TOC)	☐ OTHER				
INITIAL WELL DEPTH (BMP)	<u>24.70</u> FT	FINAL WELL DEPTH (BMP)	<u>24.70</u> FT	SCREEN LENGTH	<u>5</u> FT	PROT. CASING STICKUP (AGS)	<u>0</u> FT
INITIAL DTW (BMP)	<u>15.54</u> FT	SEDIMENT REMOVED	<u>—</u> FT	SCREENED INTERVAL (BMP)	<u>19.7 TO 24.7</u>	TOC/TOR DIFFERENCE	<u>0.33</u> FT
WATER COLUMN	<u>9.16</u> FT	DTW AFTER DEVELOP. (BMP)	<u>—</u> FT	PUMPING DEPTH (BMP)	<u>24.7</u> FT	PID AMBIENT AIR	<u>0</u> PPM
(initial well depth - initial depth to water)		FINAL RECOVERY DEPTH (BMP)	<u>—</u> FT	APPROXIMATE RECHARGE RATE	<u>330 gpm/min</u> FT/MIN	PID WELL MOUTH	<u>0.1</u> PPM
CALCULATED GAL/VOL	<u>1.5</u> GAL	FINAL RECOVERY TIME (elapsed)	<u>—</u> MIN	FLUIDS LOST DURING DRILLING	<u>—</u> GAL	END OF WELL DEVELOPMENT	☐ Y ☒ N
(column X well diameter squared X 0.041)		SAMPLE TAKEN?					
TOTAL VOL. PURGED	<u>10.5</u> GAL						
(mL per minute X total minutes X 0.00026 gal/mL)							

FIELD PARAMETERS

TIME	DTW (R BMP)	PURGE RATE (mL/min)	TEMP. (°C)	SP. CONDUCTANCE (mS/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	VOLUME PURGED (gal)	TOTAL GALLONS	COMMENTS
1438	15.72	1-lane purged									4 gallons with whalepups - some purged with 6e pups
1445	16.82	350	—	—	—	—	>1000	—		4.5	
1455	17.15	300	—	—	—	—	290	—		6	
1505	17.13	300	—	—	—	—	170	—		6.5	
1520	17.10	300	—	—	—	—	76	—		7.3	
1530	16.98	270	—	—	—	—	42	—		8.0	
1545	16.95	280	—	—	—	—	24	—		9.1	
1600	16.98	290	—	—	—	—	11	—		10.2	
1605	16.67	180	—	—	—	—	9.5	—		10.5	

EQUIPMENT DOCUMENTATION

☐ DEDICATED SUBMERSIBLE	☒ WATER LEVEL METER
☐ SURGE BLOCK	PID <u>MiniPac 2000</u>
☐ BAILER	WQ METER
☐ 2" ☐ 4"	TURB. METER <u>Hach 2100 Q</u>
☐ GRUNDFOSS	OTHER
☐ 2" ☐ 4"	OTHER
☒ OTHER	OTHER

ADDITIONAL OBSERVATIONS	NUMBER OF GALLONS GENERATED
PURGE WATER CONTAINERIZED ☒ Y ☐ N	<u>10.5</u>

NOTES

Well Developer Signature: <u>Jerry Rauloff</u>	Print Name: <u>Jerry Rauloff</u>
Checked By: <u>RMS</u>	Date: <u>12/22/15</u>

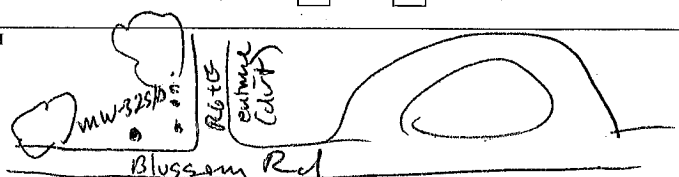
WELL DEVELOPMENT CRITERIA

Well water clear to the unaided eye?
Sediment thickness remaining in well <1.0% of screen length?
Total water removed = a minimum of 5x calculated well volumes plus 5x drilling fluids lost?
Turbidity < 5 NTUs?
10% change in field parameters?

WAS DEVELOPMENT CRITERIA MET?

☐ Y	☒ N
----------------------------	---------------------------------------

SKETCH



WELL DEVELOPMENT RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME Schoell Chemical
 PROJECT NUMBER 3617147308-05
 WELL INSTALLATION DATE 11/19/15 WELL DEVELOPMENT DATE 11/20/15

LOCATION ID MW-325 PAGE 1 OF 1
 START TIME 1300 START DATE 11/20/15
 END TIME 1435 END DATE 11/20/15

WELL DIAMETER (INCHES) ☒ 1-IN. ☐ 2-IN. ☐ 4-IN. ☐ 6-IN. ☐ 8-IN. ☐ OTHER _____
 CASING DIAMETER (INCHES) ☒ 4-IN. ☐ 6-IN. ☐ 8-IN. ☐ 10-IN. ☐ 12-IN. ☐ OTHER _____
 MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____
 INITIAL WELL DEPTH (BMP) 16.70 FT FINAL WELL DEPTH (BMP) 16.70 FT SCREEN LENGTH 5 FT PROT. CASING STICKUP (AGS) 0 FT
 INITIAL DTW (BMP) 13.09 FT SEDIMENT REMOVED — FT SCREENED INTERVAL (BMP) 11.7 TO 16.7 TOC/TOR DIFFERENCE 0.34 FT
 (final well depth - initial well depth)
 WATER COLUMN 3.61 FT DTW AFTER DEVELOP. (BMP) — FT PUMPING DEPTH (BMP) 16.7 FT PID AMBIENT AIR 0.0 PPM
 (initial well depth - initial depth to water)
 CALCULATED GAL/VOL 0.15 GAL FINAL RECOVERY DEPTH (BMP) — FT APPROXIMATE RECHARGE RATE 400 ml/min FT/MIN PID WELL MOUTH 0.1 PPM
 (column X well diameter squared X 0.041)
 TOTAL VOL. PURGED 5 GAL FINAL RECOVERY TIME (elapsed) — MIN FLUIDS LOST DURING DRILLING — GAL END OF WELL DEVELOPMENT ☐ Y ☒ N
 (mL per minute X total minutes X 0.00026 gal/mL) SAMPLE TAKEN?

FIELD PARAMETERS

TIME	DTW (R BMP)	PURGE RATE (mL/min)	TEMP. (°C)	SP. CONDUCTANCE (mS/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	VOLUME PURGED (gal)	TOTAL GALLONS	COMMENTS
1335	13.09	Start									purge with Geopump
1350	13.32	400	—	—	—	—	9.7	—	—	—	
1405	13.36	320	—	—	—	—	9.9	—	—	2	
1425	13.34	380	—	—	—	—	2.6	—	—	4	
1435	13.31	380	—	—	—	—	1.6	—	—	5	

EQUIPMENT DOCUMENTATION

☐ DEDICATED SUBMERSIBLE
☐ SURGE BLOCK
☐ BAILER ☐ 2" ☐ _____
☐ GRUNDFOSS ☐ 2" ☐ 4"
☒ OTHER Whale/Geopump
☒ WATER LEVEL METER
☒ PID MiniRae 2000
☒ WQ METER
☒ TURB. METER HAACH 2100 Q
☐ OTHER _____
☐ OTHER _____

ADDITIONAL OBSERVATIONS
 PURGE WATER CONTAINERIZED ☒ Y ☐ N
 NUMBER OF GALLONS GENERATED 5

NOTES

Checked By: Terry Ruchtle
 Print Name: Jerry Ruchtle
 Date: 12/22/15

WELL DEVELOPMENT CRITERIA

Well water clear to the unaided eye? ☒ Y ☐ N
 Sediment thickness remaining in well <1.0% of screen length? ☒ Y ☐ N
 Total water removed = a minimum of 5x calculated well volumes plus 5x drilling fluids lost? ☒ Y ☐ N
 Turbidity < 5 NTUs? ☒ Y ☐ N
 10% change in field parameters? ☐ Y ☒ N

WAS DEVELOPMENT CRITERIA MET?

SKETCH

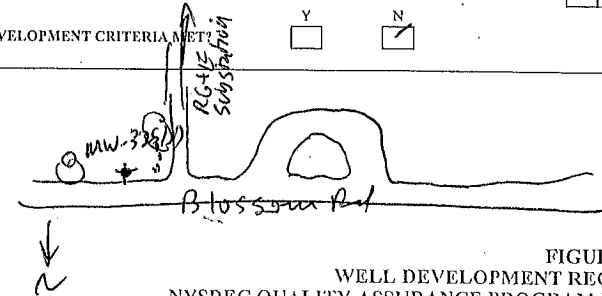


FIGURE 4.9
 WELL DEVELOPMENT RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

MACTEC

PROJECT NAME Scobell Charcoal	
PROJECT NUMBER 3617147328.05	
WELL INSTALLATION DATE 1/12/15	WELL DEVELOPMENT DATE 11/20/15

LOCATION ID mw-335	PAGE 1 OF 1
START TIME 1200	START DATE 11/20/15
END TIME 1310	END DATE 11/20/15

WELL DIAMETER (INCHES)	☐ 1-IN.	☒ 2-IN.	☐ 4-IN.	☐ 6-IN.	☐ 8-IN.	☐ OTHER		
CASING DIAMETER (INCHES)	☐ 4-IN.	☐ 6-IN.	☐ 8-IN.	☐ 10-IN.	☐ 12-IN.	☒ OTHER	4" O.B. 3" B.R.	
MEASUREMENT POINT (MP)	☒ TOP OF RISER (TOR)		☐ TOP OF CASING (TOC)		☐ OTHER			
INITIAL WELL DEPTH (BMP)	14.4 FT		FINAL WELL DEPTH (BMP)	14.4 FT		SCREEN LENGTH	6 FT	
INITIAL DTW (BMP)	6.33 FT		SEDIMENT REMOVED	— FT		SCREENED INTERVAL (BMP)	8.4 TO 14.4	
(initial well depth - initial depth to water)			DTW AFTER DEVELOP. (BMP)		— FT		TOC/TOR DIFFERENCE	0.53 FT
WATER COLUMN	8.07 FT		PUMPING DEPTH (BMP)		14.4 FT		PID AMBIENT AIR	0.0 PPM
(initial well depth - initial depth to water)			APPROXIMATE RECHARGE RATE		500-1000 gal/min FT/MIN		PID WELL MOUTH	0.1 PPM
CALCULATED GAL/VOL	1.3 GAL		FINAL RECOVERY DEPTH (BMP)		— FT		END OF WELL DEVELOPMENT	Y ☐ N ☒
(column X well diameter squared X 0.041)			FINAL RECOVERY TIME (elapsed)		— MIN		SAMPLE TAKEN?	
TOTAL VOL. PURGED	15 GAL		FLUIDS LOST DURING DRILLING		— GAL			
(mL per minute X total minutes X 0.00026 gal/mL)								

[illegible]

☒	<u>Whelp</u>	☐	WATER LEVEL METER
☐	DEDICATED SUBMERSIBLE	☒	PID <u>Minilux 2000</u>
☐	SURGE BLOCK	☐	WQ METER
☐	BAILER	☒	TURB. METER <u>WACH 2100Q</u>
☐	☐ 2" ☐	☐	OTHER
☐	GRUNDPOS	☐	OTHER
☐	☐ 2" ☐ 4"	☐	OTHER
☒	OTHER	☐	

PURGE WATER ☒ Y ☐ N NUMBER OF GALLONS GENERATED 15

Well Developer Signature: Terry Paul Holt

Checked By: Terry Paul Holt

Print Name: Terry Paul Holt

Date: 12/22/15

	Y	N
Well water clear to the unaided eye?		
Sediment thickness remaining in well <1.0% of screen length?		
Total water removed = a minimum of 5x calculated well volumes plus 5x drilling fluids lost?		
Turbidity < 5 NTUs?		
10% change in field parameters?		

SKETCHY Creek

Parking Garage

Well-355

Brighton Manor

NYSDEC QUALITY ASSURANCE PROGRAM

FIGURE 4. WELL DEVELOPMENT RECORD

FIGURE 4.9

WELL DEVELOPMENT RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

WELL DEVELOPMENT RECORD



MACTEC

511 Congress Street, Portland Maine 04101

PROJECT NAME <i>Scotell Chemical</i>	
PROJECT NUMBER <i>3617147328.05</i>	
WELL INSTALLATION DATE <i>11/14/15</i>	WELL DEVELOPMENT DATE <i>11/19/15</i>

LOCATION ID <i>mw-345</i>	PAGE <i>1</i> OF <i>1</i>
START TIME <i>1635</i>	START DATE <i>11/19/15</i>
END TIME <i>1740</i>	END DATE <i>11/19/15</i>

WELL DIAMETER (INCHES)	☐ 1-IN.	☒ 2-IN.	☐ 4-IN.	☐ 6-IN.	☐ 8-IN.	☐ OTHER	
CASING DIAMETER (INCHES)	☒ 4-IN.	☐ 6-IN.	☐ 8-IN.	☐ 10-IN.	☐ 12-IN.	☐ OTHER	
MEASUREMENT POINT (MP)	☒ TOP OF RISER (TOR)	☐ TOP OF CASING (TOC)	☐ OTHER				
INITIAL WELL DEPTH (BMP)	<i>14.55</i> FT	FINAL WELL DEPTH (BMP)	<i>—</i> FT	SCREEN LENGTH	<i>5</i> FT	PROT. CASING STICKUP (AGS)	<i>0</i> FT
INITIAL DTW (BMP)	<i>10.65</i> FT	SEDIMENT REMOVED	<i>—</i> FT	SCREENED INTERVAL (BMP)	<i>9.55</i> TO <i>14.55'</i>	TOC/TOR DIFFERENCE	<i>0.40</i> FT
WATER COLUMN	<i>3.9</i> FT	DTW AFTER DEVELOP. (BMP)	<i>—</i> FT	PUMPING DEPTH (BMP)	<i>14.55'</i> FT	PID AMBIENT AIR	<i>0.0</i> PPM
CALCULATED GAL/VOL	<i>0.62</i> GAL	FINAL RECOVERY DEPTH (BMP)	<i>—</i> FT	APPROXIMATE RECHARGE RATE	<i>200-300 ml/min</i> FT/MIN	PID WELL MOUTH	<i>0.1</i> PPM
TOTAL VOL. PURGED	<i>6</i> GAL	FINAL RECOVERY TIME (elapsed)	<i>—</i> MIN	FLUIDS LOST DURING DRILLING	<i>—</i> GAL	END OF WELL DEVELOPMENT	Y ☐ N ☒
(mL per minute X total minutes X 0.00026 gal/mL)							

FIELD PARAMETERS

TIME	DTW (ft BMP)	PURGE RATE (mL/min)	TEMP. (°C)	SP. CONDUCTANCE (mS/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	VOLUME PURGED (gal)	TOTAL GALLONS	COMMENTS
1637	10.65	Setup in hole pump and purged dry	—	—	—	—	—	—	—	1	Start purge with whole purg
1646	11.97	560 ml/min	—	—	—	—	—	—	—	—	Start purging & oxygen
1655	12.25	560	—	—	—	—	940	—	—	3	
1702	13.22	350	—	—	—	—	71000	—	—	3.5	Reduced rate
1715	12.91	350	—	—	—	—	350 ml/min	36	—	5	
1728	12.93	380	—	—	—	—	6.0	—	—	26	

EQUIPMENT DOCUMENTATION

☒ <i>wholly</i>	☒ DEDICATED SUBMERSIBLE	☒ WATER LEVEL METER
☐ SURGE BLOCK	☐ PID <i>MiniPac 2000</i>	☐ WQ METER
☐ BAILER	☐ TURB. METER <i>MACC 2100e</i>	☐ OTHER
☐ GRUNDFOSS	☐ OTHER	☐ OTHER
☒ OTHER	☐ OTHER	☐ OTHER

WELL DEVELOPMENT CRITERIA

Well water clear to the unaided eye?
Sediment thickness remaining in well < 1.0% of screen length?
Total water removed = a minimum of 5x calculated well volumes plus 5x drilling fluids lost?
Turbidity < 5 NTUs?
10% change in field parameters?

Y	N
☒	☐
☒	☐
☐	☐
☒	☐
☐	☐

WAS DEVELOPMENT CRITERIA MET?

Y	N
☐	☒

ADDITIONAL OBSERVATIONS

PURGE WATER CONTAINERIZED	☒ Y ☐ N	NUMBER OF GALLONS GENERATED	<i>6</i>
---------------------------	--	-----------------------------	----------

NOTES

Well Developer Signature: *Jerry Rawls*
Checked By: *EMB*
Print Name: *Jerry Rawls, TC*
Date: *12/22/15*

SKETCH

FIGURE 4.9
WELL DEVELOPMENT RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Scobell Chemical-NYS DOT Site	
PROJECT NUMBER 3617147328	
SAMPLE ID 828076-MW30S015	SAMPLE TIME 1545

LOCATION ID MW-30S	DATE 12/10/15
START TIME 1515	END TIME 1600
SITE NAME/NUMBER 828076	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP)	7.17 FT	FINAL DTW (BMP)	214.85 FT	PROT. CASING STICKUP (AGS)	2.3 FT	TOC/TOR DIFFERENCE	0.42 FT
WELL DEPTH (BMP)	15.05 FT	SCREEN LENGTH	5 FT	PID AMBIENT AIR	PPM	REFILL TIMER SETTING	SEC
WATER COLUMN	7.88 FT	DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041)	1.3 GAL	PID WELL MOUTH	PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.3 GAL	TOTAL VOL. PURGED	5.8 GAL	DRAWDOWN/ TOTAL PURGED	PPM	PRESSURE TO PUMP	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
BEGIN PURGING										
12/9/15	7.17	Purged	day ≈ 2.3 gallons	0445	0545	Fail WL	> 14.85' TOR			
12/10/15	7.15	1005	Purged day for 2nd time ≈ 2.5 gallons							
1527	7.89	Start purge								
1533	8.81	125	13.0	5.107	7.3	6.0	14	121	15	
1538	9.56	↓	12.9	5.151	7.3	5.1	13	123		
1543	10.43	125	12.9	5.129	7.3	5.2	12	124		
1550	10.90	120	12.8	5.093	7.3	5.0	13	124		
1555	11.29	110	12.7	4.951	7.3	4.8	19	123		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

13 4.950 7.3 4.8 19 120

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.69% = 0.69%)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC	☐ SUBMERSIBLE	☐ LIQUINOX	☐ DEIONIZED WATER	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☒ WL METER	801102
☐ BLADDER	☐ POTABLE WATER	☐ TEFLON TUBING	☐ NITRIC ACID	☐ TEFLON LINED TUBING	☐ PVC PUMP MATERIAL	☒ PID	
☐ WATERA	☐ HEXANE	☐ HDPE TUBING	☐ METHANOL	☒ LDPE TUBING	☐ GEOPROBE SCREEN	☒ WQ METER	YSI 550 MPS
☐ OTHER	☒ OTHER Dedicated	☒ OTHER Silastic	☐ OTHER	☐ OTHER	☐ TEFLON BLADDER	☒ TURB. METER	HACH 2100 Q
☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☒ PUMP	Geopump
☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	
☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ FILTERS	NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOCs	8260C	N	He1	3x40ml	X		

PURGE OBSERVATIONS

PURGE WATER YES ☒ NO ☐

CONTAINERIZED YES ☒ NO ☐

NO-PURGE METHOD YES ☐ NO ☐

UTILIZED YES ☐ NO ☐

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

1 + 2.3 + 2.5 = 5.8
Blossom Str

MW-30S

Sample Signature: *John Rawcliffe*

Print Name: *John Rawcliffe*

Checked By: *RMB*

Date: 12/22/15

MACTEC

511 Congress Street, Portland Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Seobell Chemical-NYS DOT Site	
PROJECT NUMBER 3617147328	
SAMPLE ID 828076 - MW 315014	SAMPLE TIME 1250

LOCATION ID MW-305	DATE 12/9/15
START TIME 1145	END TIME 1300
SITE NAME/NUMBER 828076	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

YES	NO	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

INITIAL DTW (BMP) 12.55 FT	FINAL DTW (BMP) 12.57 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.35 FT
WELL DEPTH (BMP) 14.1 FT	SCREEN LENGTH 5 FT	PID AMBIENT AIR PPM	REFILL TIMER SETTING SEC
WATER COLUMN 1.55 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 0.003 GAL	PID WELL MOUTH PPM	DISCHARGE TIMER SETTING SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 0.25 GAL	TOTAL VOL. PURGED 2.4 GAL	DRAWDOWN/ TOTAL PURGED 0.001	PRESSURE TO PUMP PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (R)	COMMENTS
1154	BEGIN PURGING									
1205	12.56	155	13.5	7.205	6.7	3.2	0.7	230	14.5	
1210	12.56	190	13.6	7.085	6.7	2.4	0.5	226		
1215	12.56	190	13.7	7.036	6.7	2.0	—	223		
1220	12.57	200	13.8	7.038	6.7	1.8	0.5	220		
1225	12.57	200	13.9	7.027	6.7	1.7	0.3	216		
1230	12.57	200	13.9	7.040	6.7	1.7	0.3	213		
1235	12.57	↓	13.9	7.072	6.7	1.7	0.2	210		
1240	12.57	200	13.9	7.115	6.7	1.6	0.2	207		
1245	12.57	↓	13.8	7.156	6.7	1.6	0.2	205		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

14 7.16 ~~7.16~~ 6.7 1.6 0.2 205

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC Geopump ☐ SUBMERSIBLE BLADDER ☐ WATERA ☐ OTHER ☐ OTHER		DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☒ METHANOL ☒ OTHER Dedicated		TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER ☒ OTHER Silastic		S. STEEL PUMP MATERIAL PVC PUMP MATERIAL GEOPROBE SCREEN TEFLON BLADDER OTHER OTHER OTHER		EQUIPMENT USED ☒ WL METER Solins ☐ PID ☒ WQ METER YS 7550 Meters MW 15-05 ☒ TURB. METER Tech 2100 R MW 24-72 ☒ PUMP Geopump ☐ OTHER ☐ FILTERS NO. TYPE	
--	--	--	--	--	--	---	--	--	--

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOCs	8260C	N	HCl	3x40ml	✓		

PURGE OBSERVATIONS

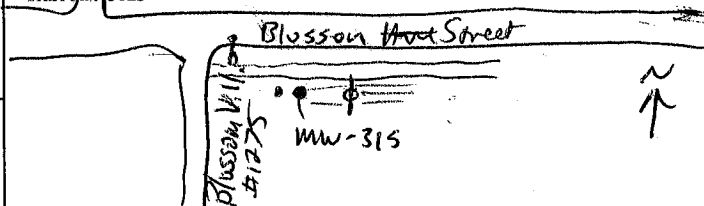
PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED 2.4

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: *Jeany Rawliff*

Print Name: Jeany Rawliff

Checked By: *RMB*

Date: 12/22/15

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Scobell Chemical-NYS DOT Site	
PROJECT NUMBER 3617147328 .05	
SAMPLE ID 828076-MW 325 018	SAMPLE TIME 1500

LOCATION ID MW-325	DATE 12/4/15
START TIME 1410	END TIME 1510
SITE NAME/NUMBER 828076	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

YES	NO	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

INITIAL DTW (BMP) 12.89 FT	FINAL DTW (BMP) 13.05 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.34 FT
WELL DEPTH (BMP) 16.7 FT	SCREEN LENGTH 5 FT	PID AMBIENT AIR PPM	REFILL TIMER SETTING SEC
WATER COLUMN 3.81 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 1.006 GAL	PID WELL MOUTH PPM	DISCHARGE TIMER SETTING SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 0.16 GAL	TOTAL VOL. PURGED 1.9 GAL	DRAWDOWN/ TOTAL PURGED 0.003	PRESSURE TO PUMP PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1413	BEGIN PURGING 12.89' TOR									
1415	13.06	180	13.6	3.899	6.9	1.5	17	9	19	
1420	13.07	↓	13.7	3.906	6.8	1.4	17	-1	+	
1425	13.07	180	13.7	3.980	6.8	1.4	10	-7		
1430	13.07	↓	13.8	4.042	6.8	0.8	4.9	-11		
1435	13.04	150	13.8	4.070	6.8	0.7	3.0	-13		
1440	13.03	↓	13.8	4.083	6.8	0.7	7.8	-15		
1445	13.04	150	13.7	4.090	6.8	0.7	3.2	-16		
1450	13.04	↓	13.7	4.087	6.9	0.7	1.7	-16		
1455	13.05	↓	13.6	4.077	6.8	0.6	1.1	-17		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

14 4.08 6.8 0.6 1.1 -17

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☒ PERISTALTIC	☐ LIQUINOX	☐ SILICON TUBING	☒ WL METER <u>Sulzer NYSDEC #5</u>
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ TEFLON TUBING	☐ PID
☐ BLADDER	☐ POTABLE WATER	☐ TEFLON LINED TUBING	☒ WQ METER <u>YS556MPS</u>
☐ WATERA	☐ NITRIC ACID	☐ HDPE TUBING	☒ TURB. METER <u>YS556MPS/HCL</u>
☐ OTHER	☐ HEXANE	☐ LDPE TUBING	☒ PUMP <u>Geop</u>
☐ OTHER	☒ METHANOL	☐ OTHER	☐ OTHER
	☐ OTHER <u>Dedicated</u>	☒ OTHER <u>Silastic</u>	☐ OTHER

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOLs	8260C	N	HCL	3x40mL			

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED 1.9

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Blossom Rd

MW-325/10

Dir access to RG+E Substation

Sampler Signature: Jerry Rawcliffe Print Name: Jerry Rawcliffe

Checked By: RMB Date: 12/22/15

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Scobell Chemical-NYS DOT Site	
PROJECT NUMBER 3617147328	
SAMPLE ID 828076-MW 320024	SAMPLE TIME 1405

LOCATION ID MW-320	DATE 12/9/15
START TIME 1300	END TIME 1410
SITE NAME/NUMBER 828076	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP)	15.05 FT	FINAL DTW (BMP)	15.71 FT	PROT. CASING STICKUP (AGS)	0 FT	TOC/TOR DIFFERENCE	0.33 FT
WELL DEPTH (BMP)	24.7 FT	SCREEN LENGTH	5 FT	PID AMBIENT AIR	PPM	REFILL TIMER SETTING	SEC
WATER COLUMN	9.65 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041)	0.11 GAL	PID WELL MOUTH	PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.5 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.0 GAL	DRAWDOWN/ TOTAL PURGED	0.05	PRESSURE TO PUMP	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (R)	COMMENTS
1311	BEGIN PURGING 15.05' TOR									
1316	15.53	155	14.5	2.763	6.9	2.1	6.5	99	24	
1320	15.62	↓	14.3	2.654	6.8	1.6	2.0	62		Inserting tubing in MW-325.
1330	15.70	160	14.3	2.508	6.8	1.2	1.1	38		
1335	15.71	↓	14.3	2.493	6.8	1.0	0.7	31		
1340	15.74	160	14.2	2.483	6.8	0.8	0.7	24		
1345	15.72	150	14.2	2.476	6.8	0.8	0.5	19		
1350	15.71	↓	14.2	2.463	6.8	0.8	0.4	16		
1355	15.71	150	14.2	2.460	6.8	0.8	0.3	13		
1400	15.71	↓	14.2	2.460	6.8	0.7	0.3	12		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

14	2.460 ^{2SF}	6.8	0.7	0.3	12	TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)
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EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER	☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☒ METHANOL ☐ OTHER <u>Detergent</u>	☐ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER <u>Silastic</u>	☒ WL METER <u>Solinst NYSDECAS</u> ☐ PID ☒ WQ METER <u>YSI 550 MPS</u> ☒ TURB. METER <u>Hach 2100Q</u> ☒ PUMP <u>Geopump</u> ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOLs	8260C	N	HCL	3x40mL	✓		

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED 2.0

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Blossum Rd 1st

MW-325/0

Drill access to R6+E

substation

Sampler Signature: Jerry Rawcliffe Print Name: Jerry Rawcliffe

Checked By: RMB Date: 12/22/15

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Scobell Chemical-NYSOT Site	
PROJECT NUMBER 3617147328	
SAMPLE ID 828076-MW335014	SAMPLE TIME 1630

LOCATION ID MW-335	DATE 12/9/15
START TIME 1520	END TIME 1645
SITE NAME/NUMBER 828076	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 6.24 FT	FINAL DTW (BMP) 6.61 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.53 FT
WELL DEPTH (BMP) 14.4 FT	SCREEN LENGTH 6 FT	PID AMBIENT AIR PPM	REFILL TIMER SETTING SEC
WATER COLUMN 8.16 FT	DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 0.06 GAL	PID WELL MOUTH PPM	DISCHARGE TIMER SETTING SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.3 GAL	TOTAL VOL. PURGED 2.6 GAL	DRAWDOWN/ TOTAL PURGED 0.02	PRESSURE TO PUMP PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1532	BEGIN PURGING									
1535	6.67	250	13.9	1.191	7.5	1.9	4.0	21	14	
1540	6.56	180	13.8	1.143	7.4	1.5	1.1	28		
1545	6.58	↓	13.8	1.133	7.3	1.4	0.8	32		
1550	6.59	180	13.8	1.132	7.3	1.3	0.6	35		
1555	6.60	↓	13.8	1.138	7.3	1.2	0.6	38		
1600	6.60	185	13.8	1.147	7.2	1.1	0.3	40		
1605	6.61	↓	13.7	1.154	7.2	1.0	0.4	42		
1610	6.61	185	13.7	1.156	7.2	0.9	0.4	44		
1615	6.61	↓	13.7	1.158	7.2	0.8	0.2	45		
1620	6.61	185	13.7	1.159	7.2	0.8	0.4	47		
1625	6.61	↓	13.7	1.160	7.2	0.8	0.4	49		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

14 1.16 7.2 0.8 0.4 49

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.69% = 0.69%)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☒ PERISTALTIC	☐ LIQUINOX	☐ SILICON TUBING	☒ WL METER <u>Solinst DBC A5</u>
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ TEFLON TUBING	☐ PID
☐ BLADDER	☐ POTABLE WATER	☐ TEFLON LINED TUBING	☒ WQ METER <u>YS536MPS</u>
☐ WATERA	☐ NITRIC ACID	☐ HDPE TUBING	☒ TURB. METER <u>Hach 2100 Q</u>
☐ OTHER	☐ HEXANE	☐ LDPE TUBING	☒ PUMP <u>Leupold</u>
☐ OTHER	☒ METHANOL	☐ OTHER	☐ OTHER
	☒ OTHER <u>Deionized</u>	☒ OTHER <u>Silastic</u>	☐ FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOCs	8260C	N	HCl	3x40ml	✓		
			Blossom Red				

PURGE OBSERVATIONS

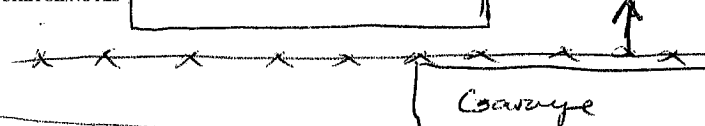
PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED 2.6

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: Jerry Rawcliffe Print Name: Jerry Rawcliffe

Checked By: EMB Date: 12/21/15

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Scobell Chemical-NYS DOT Site	
PROJECT NUMBER 3617147328	
SAMPLE ID 828076-MW345074	SAMPLE TIME 12/25

LOCATION ID MW-345	DATE 12/10/15
START TIME 1045	END TIME 1230
SITE NAME/NUMBER 828076	PAGE 1 OF 2

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP)	10.74 FT	FINAL DTW (BMP)	11.38 FT	PROT. CASING STICKUP (AGS)	0 FT	TOC/TOR DIFFERENCE	0.40 FT
WELL DEPTH (BMP)	14.55 FT	SCREEN LENGTH	5' FT	PID AMBIENT AIR	— PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	3.8 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041)	0.10 GAL	PID WELL MOUTH	— PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.6 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.8 GAL	DRAWDOWN/ TOTAL PURGED	0.04	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1054	BEGIN PURGING 10.74' TOR									
1105	11.03	135	14.4	0.829	7.0	7.3	46	185	14'	
1110	11.11	↓	14.3	0.823	7.0	6.2	26	184		
1115	11.17	130	14.5	0.830	7.0	6.1	18	183		
1120	11.21	↓	14.5	0.841	6.9	6.0	12	181		
1125	11.26	130	14.6	0.848	7.0	5.7	10	179		
1130	11.28	↓	14.4	0.870	6.9	5.6	6.2	177		
1135	11.31	130	14.4	0.880	6.9	5.2	3.3	174		
1140	11.33	↓	14.3	0.890	6.9	5.2	3.5	171		
1145	11.35	130	14.3	0.897	7.0	4.8	2.5	169		
1150	11.37	↓	14.3	1.029	7.0	4.7	2.3	167		
1155	11.38	130	14.3	1.028	7.0	4.6	1.7	165		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

14 1.034 PS 7.0 4.6 1.7 170

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER	☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☒ METHANOL ☐ OTHER <i>Pediatric</i>	☐ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER <i>Silastic</i>	☒ WL METER <i>Sulind</i> ☐ PID ☒ WQ METER <i>YSI 550 MP</i> ☒ TURB. METER <i>1140-2050</i> ☒ PUMP <i>Deep</i> ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOCs	8260C	N	17C1	3x40mL	✓		

PURGE OBSERVATIONS

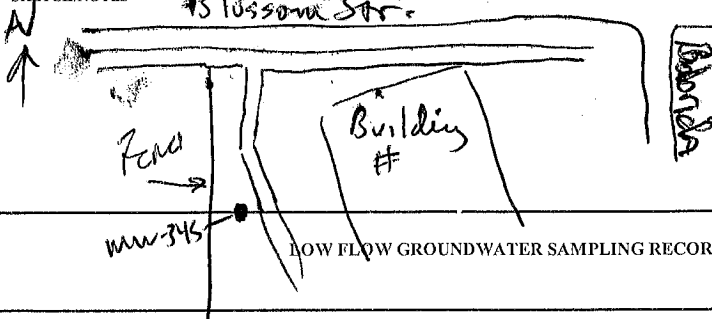
PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED **2.0**

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: *Jerry Rawcliffe*

Print Name: *Jerry Rawcliffe*

Checked By: *EMB*

Date: *12/22/15*

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Scobell Chemical-NYS DOT Site	
PROJECT NUMBER 3617147328	
SAMPLE ID 828076-MW345014	SAMPLE TIME 1225

LOCATION ID MW-345	DATE 12/10/15
START TIME 1045	END TIME 1230
SITE NAME/NUMBER 828076	PAGE 2 OF 2

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP)	10.74 FT	FINAL DTW (BMP)	11.42 FT	PROT. CASING STICKUP (AGS)	0 FT	TOC/TOR DIFFERENCE	0.40 FT
WELL DEPTH (BMP)	14.55 FT	SCREEN LENGTH	5' FT	PID AMBIENT AIR	— PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	3.8 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041)	0.1 GAL	PID WELL MOUTH	— PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.6 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.8 GAL	DRAWDOWN/ TOTAL PURGED	0.04	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1059	BEGIN PURGING									
1200	11.39	130	14.3	1.035	7.0	4.4	1.6	164	14'	
1205	11.40	↓	14.4	1.035	7.0	4.3	1.2	162		
1210	11.41	130	14.4	1.036	7.0	4.1	1.3	161		
1215	11.41	↓	14.4	1.039	7.0	4.2	1.1	160		
1220	11.42	130	14.3	1.040	7.0	4.1	1.1	159		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

14 1.04 ^{2 SF} 7.0 4.1 1.1 160

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER	☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Deionized	☐ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER Silastic	☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER ☐ OTHER
☐ WATTEA ☐ OTHER ☐ OTHER			☐ WL METER Solinst ☐ PID ☐ WQ METER 752556 wps ☐ TURB. METER HACH 21000 ☐ PUMP Ceeding ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOCs	8260C	N	HCI	3x40 ml	✓		

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED 2.8

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

See page 1

Blissman St

Rem -

MW-345

Sampler Signature: Jerry Rancich Print Name: Jerry Rancich

Checked By: RMB Date: 12/22/15

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Scobell Chemical-NYS DOT Site	
PROJECT NUMBER 3617147328	
SAMPLE ID 828076-MW355014	SAMPLE TIME 1500

LOCATION ID MW-355	DATE 12/10/15
START TIME 1355	END TIME 1505
SITE NAME/NUMBER 828076	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 8.01 FT	FINAL DTW (BMP) 8.12 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.35 FT
WELL DEPTH (BMP) 14.85 FT	SCREEN LENGTH 5 FT	PID AMBIENT AIR — PPM	REFILL TIMER SETTING — SEC
WATER COLUMN 6.84 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 0.02 GAL	PID WELL MOUTH — PPM	DISCHARGE TIMER SETTING — SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.1 GAL	TOTAL VOL. PURGED 2.1 GAL	DRAWDOWN/ TOTAL PURGED .009	PRESSURE TO PUMP — PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
14.12	BEGIN PURGING									
1415	8.10	240	14.4	1.442	6.9	2.4	6.3	138		
1420	8.10	180	14.4	1.444	6.9	1.2	3.2	128		
1425	8.11	↓	14.4	1.441	6.9	0.8	1.8	121		
1430	8.11	175	14.4	1.435	6.9	0.7	1.6	116		
1435	8.11	↓	14.5	1.416	6.9	0.6	1.0	110		
1440	8.11	175	14.4	1.403	6.8	0.5	0.6	108		
1445	8.11	↓	14.5	1.381	6.8	0.5	0.8	103		
1450	8.11	175	14.5	1.378	6.8	0.5	1.2	101		
1455	8.12	↓	14.4	1.373	6.8	0.5	0.9	100		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

14 1.378^{2SF} 6.8 0.5 0.9 100

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER	☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER <u>Dedicated</u>	☐ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER <u>Silastic</u> ☐ OTHER _____	☒ WL METER <u>Solinst</u> ☐ PID ☒ WQ METER <u>YSI 556 WMS</u> ☒ TURB. METER <u>HACH 12100A</u> ☒ PUMP <u>Geopump</u> ☐ OTHER _____ FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOCs	8260C	N	1+CI	3x40ml	✓		
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED 2.1

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Sketch of well location and sampling area. Includes handwritten notes: "mw-355", "Blossom Rd.", "3617147328", and "Geopump".

Sampler Signature: Jerry Ruwel

Print Name: Jerry Ruwel

Checked By: RMB

Date: 12/22/15

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Scobell Chemical-NYS DOT Site	
PROJECT NUMBER 3617147328	
SAMPLE ID 828076-MW365014	SAMPLE TIME 1350

LOCATION ID MW-365	DATE 12/10/15
START TIME 1230	END TIME 1355
SITE NAME/NUMBER 828076	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP)	7.45 FT	FINAL DTW (BMP)	7.79 FT	PROT. CASING STICKUP (AGS)	0 FT	TOC/TOR DIFFERENCE	0.54 FT
WELL DEPTH (BMP)	14.5 FT	SCREEN LENGTH	5 FT	PID AMBIENT AIR	— PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	7.05 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041)	0.05 GAL	PID WELL MOUTH	— PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.1 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.75 GAL	DRAWDOWN/ TOTAL PURGED	0.02	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1242	BEGIN PURGING									
1246	7.74	180	13.1	1.736	7.0	3.6	7.9	148	14	dark lunch
1300	7.82	190	12.8	1.786	6.8	2.0	3.8	159		
1305	7.85	190	12.8	1.806	6.8	1.8	3.3	160		
1310	7.79	155	12.7	1.821	6.7	1.6	2.6	159		
1315	7.78	↓	12.7	1.831	6.7	1.5	2.3	159		
1320	7.77	150	12.7	1.844	6.7	1.4	1.6	158		
1325	7.78	↓	12.7	1.857	6.7	1.3	1.3	156		
1330	7.79	150	12.7	1.867	6.7	1.2	1.1	155		
1335	7.79	↓	12.7	1.875	6.7	1.2	8.4	154		
1340	7.79	150	12.7	1.880	6.7	1.1	6.9	153		
1345	7.79	↓	12.7	1.883	6.7	1.1	5.6	153		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

13 1.88 ^{PS} 6.7 1.1 5.6 150

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORT: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER	☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☒ METHANOL ☐ OTHER Deductal	☐ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER Silastic	☒ WL METER Solinst ☐ PID ☒ WQ METER YSI 536 MPS ☒ TURB. METER HACH 2100 ☒ PUMP Geotrac ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260C	N	HEI	3x40ml	α		

PURGE OBSERVATIONS

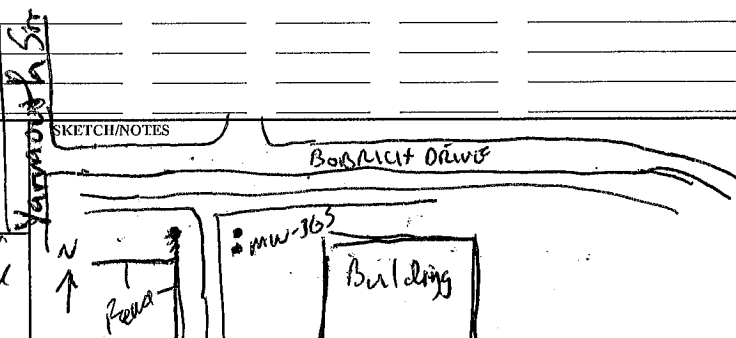
PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED 2.75

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: *Jerry Rawls*

Print Name: Jerry Rawls

Checked By: RMB

Date: 12/22/15

ATTACHMENT 2

WELL INSTALLATION AIR MONITORING RESULTS

Test 001

00 W/WNDMW-305

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/09/2015
Instrument S/N	8530122515	Start Time	11:42:53
Instrument #	FA00313	Stop Date	11/09/2015
		Stop Time	16:44:53
		Total Time	0:05:02:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.014 mg/m ³
Max	0.047 mg/m ³
Max Date	11/09/2015
Max Time	16:23:53
Min	0.009 mg/m ³
Min Date	11/09/2015
Min Time	12:22:53
TWA (8 hr)	0.009
TWA Start Date	11/09/2015
TWA Start Time	11:42:53
TWA End Time	16:44:53

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/09/2015
Instrument S/N	8530122515	Start Time	11:42:53
		Stop Date	11/09/2015
		Stop Time	16:44:53
		Total Time	0:05:02:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/09/2015	11:43:53	0.012
2	11/09/2015	11:44:53	0.012
3	11/09/2015	11:45:53	0.012
4	11/09/2015	11:46:53	0.011
5	11/09/2015	11:47:53	0.011
6	11/09/2015	11:48:53	0.011
7	11/09/2015	11:49:53	0.011
8	11/09/2015	11:50:53	0.011
9	11/09/2015	11:51:53	0.011
10	11/09/2015	11:52:53	0.011
11	11/09/2015	11:53:53	0.011
12	11/09/2015	11:54:53	0.011
13	11/09/2015	11:55:53	0.011
14	11/09/2015	11:56:53	0.011
15	11/09/2015	11:57:53	0.011
16	11/09/2015	11:58:53	0.011
17	11/09/2015	11:59:53	0.011
18	11/09/2015	12:00:53	0.010
19	11/09/2015	12:01:53	0.010
20	11/09/2015	12:02:53	0.010
21	11/09/2015	12:03:53	0.010
22	11/09/2015	12:04:53	0.010
23	11/09/2015	12:05:53	0.012
24	11/09/2015	12:06:53	0.011
25	11/09/2015	12:07:53	0.011
26	11/09/2015	12:08:53	0.011
27	11/09/2015	12:09:53	0.018
28	11/09/2015	12:10:53	0.012
29	11/09/2015	12:11:53	0.010
30	11/09/2015	12:12:53	0.010
31	11/09/2015	12:13:53	0.010
32	11/09/2015	12:14:53	0.010
33	11/09/2015	12:15:53	0.010
34	11/09/2015	12:16:53	0.010
35	11/09/2015	12:17:53	0.010

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/09/2015	12:18:53	0.010
37	11/09/2015	12:19:53	0.010
38	11/09/2015	12:20:53	0.010
39	11/09/2015	12:21:53	0.010
40	11/09/2015	12:22:53	0.009
41	11/09/2015	12:23:53	0.010
42	11/09/2015	12:24:53	0.010
43	11/09/2015	12:25:53	0.010
44	11/09/2015	12:26:53	0.012
45	11/09/2015	12:27:53	0.023
46	11/09/2015	12:28:53	0.011
47	11/09/2015	12:29:53	0.010
48	11/09/2015	12:30:53	0.020
49	11/09/2015	12:31:53	0.014
50	11/09/2015	12:32:53	0.011
51	11/09/2015	12:33:53	0.012
52	11/09/2015	12:34:53	0.010
53	11/09/2015	12:35:53	0.009
54	11/09/2015	12:36:53	0.010
55	11/09/2015	12:37:53	0.010
56	11/09/2015	12:38:53	0.012
57	11/09/2015	12:39:53	0.011
58	11/09/2015	12:40:53	0.012
59	11/09/2015	12:41:53	0.014
60	11/09/2015	12:42:53	0.011
61	11/09/2015	12:43:53	0.010
62	11/09/2015	12:44:53	0.011
63	11/09/2015	12:45:53	0.010
64	11/09/2015	12:46:53	0.011
65	11/09/2015	12:47:53	0.012
66	11/09/2015	12:48:53	0.013
67	11/09/2015	12:49:53	0.012
68	11/09/2015	12:50:53	0.011
69	11/09/2015	12:51:53	0.010
70	11/09/2015	12:52:53	0.011
71	11/09/2015	12:53:53	0.010
72	11/09/2015	12:54:53	0.010
73	11/09/2015	12:55:53	0.010
74	11/09/2015	12:56:53	0.012
75	11/09/2015	12:57:53	0.010
76	11/09/2015	12:58:53	0.011
77	11/09/2015	12:59:53	0.011
78	11/09/2015	13:00:53	0.011
79	11/09/2015	13:01:53	0.011
80	11/09/2015	13:02:53	0.012
81	11/09/2015	13:03:53	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/09/2015	13:04:53	0.012
83	11/09/2015	13:05:53	0.010
84	11/09/2015	13:06:53	0.010
85	11/09/2015	13:07:53	0.010
86	11/09/2015	13:08:53	0.010
87	11/09/2015	13:09:53	0.011
88	11/09/2015	13:10:53	0.010
89	11/09/2015	13:11:53	0.010
90	11/09/2015	13:12:53	0.011
91	11/09/2015	13:13:53	0.010
92	11/09/2015	13:14:53	0.010
93	11/09/2015	13:15:53	0.010
94	11/09/2015	13:16:53	0.010
95	11/09/2015	13:17:53	0.010
96	11/09/2015	13:18:53	0.010
97	11/09/2015	13:19:53	0.011
98	11/09/2015	13:20:53	0.012
99	11/09/2015	13:21:53	0.010
100	11/09/2015	13:22:53	0.011
101	11/09/2015	13:23:53	0.011
102	11/09/2015	13:24:53	0.010
103	11/09/2015	13:25:53	0.010
104	11/09/2015	13:26:53	0.010
105	11/09/2015	13:27:53	0.010
106	11/09/2015	13:28:53	0.013
107	11/09/2015	13:29:53	0.013
108	11/09/2015	13:30:53	0.012
109	11/09/2015	13:31:53	0.011
110	11/09/2015	13:32:53	0.011
111	11/09/2015	13:33:53	0.011
112	11/09/2015	13:34:53	0.012
113	11/09/2015	13:35:53	0.012
114	11/09/2015	13:36:53	0.010
115	11/09/2015	13:37:53	0.010
116	11/09/2015	13:38:53	0.010
117	11/09/2015	13:39:53	0.010
118	11/09/2015	13:40:53	0.010
119	11/09/2015	13:41:53	0.010
120	11/09/2015	13:42:53	0.009
121	11/09/2015	13:43:53	0.009
122	11/09/2015	13:44:53	0.010
123	11/09/2015	13:45:53	0.010
124	11/09/2015	13:46:53	0.012
125	11/09/2015	13:47:53	0.012
126	11/09/2015	13:48:53	0.011
127	11/09/2015	13:49:53	0.013

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/09/2015	13:50:53	0.010
129	11/09/2015	13:51:53	0.010
130	11/09/2015	13:52:53	0.012
131	11/09/2015	13:53:53	0.011
132	11/09/2015	13:54:53	0.012
133	11/09/2015	13:55:53	0.013
134	11/09/2015	13:56:53	0.011
135	11/09/2015	13:57:53	0.010
136	11/09/2015	13:58:53	0.010
137	11/09/2015	13:59:53	0.012
138	11/09/2015	14:00:53	0.012
139	11/09/2015	14:01:53	0.017
140	11/09/2015	14:02:53	0.011
141	11/09/2015	14:03:53	0.013
142	11/09/2015	14:04:53	0.012
143	11/09/2015	14:05:53	0.011
144	11/09/2015	14:06:53	0.013
145	11/09/2015	14:07:53	0.013
146	11/09/2015	14:08:53	0.010
147	11/09/2015	14:09:53	0.010
148	11/09/2015	14:10:53	0.011
149	11/09/2015	14:11:53	0.010
150	11/09/2015	14:12:53	0.009
151	11/09/2015	14:13:53	0.010
152	11/09/2015	14:14:53	0.011
153	11/09/2015	14:15:53	0.010
154	11/09/2015	14:16:53	0.011
155	11/09/2015	14:17:53	0.014
156	11/09/2015	14:18:53	0.013
157	11/09/2015	14:19:53	0.011
158	11/09/2015	14:20:53	0.010
159	11/09/2015	14:21:53	0.011
160	11/09/2015	14:22:53	0.011
161	11/09/2015	14:23:53	0.012
162	11/09/2015	14:24:53	0.011
163	11/09/2015	14:25:53	0.011
164	11/09/2015	14:26:53	0.014
165	11/09/2015	14:27:53	0.010
166	11/09/2015	14:28:53	0.010
167	11/09/2015	14:29:53	0.010
168	11/09/2015	14:30:53	0.012
169	11/09/2015	14:31:53	0.012
170	11/09/2015	14:32:53	0.010
171	11/09/2015	14:33:53	0.010
172	11/09/2015	14:34:53	0.010
173	11/09/2015	14:35:53	0.009

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
174	11/09/2015	14:36:53	0.011
175	11/09/2015	14:37:53	0.011
176	11/09/2015	14:38:53	0.010
177	11/09/2015	14:39:53	0.011
178	11/09/2015	14:40:53	0.011
179	11/09/2015	14:41:53	0.012
180	11/09/2015	14:42:53	0.012
181	11/09/2015	14:43:53	0.012
182	11/09/2015	14:44:53	0.011
183	11/09/2015	14:45:53	0.011
184	11/09/2015	14:46:53	0.013
185	11/09/2015	14:47:53	0.029
186	11/09/2015	14:48:53	0.014
187	11/09/2015	14:49:53	0.014
188	11/09/2015	14:50:53	0.012
189	11/09/2015	14:51:53	0.014
190	11/09/2015	14:52:53	0.014
191	11/09/2015	14:53:53	0.014
192	11/09/2015	14:54:53	0.012
193	11/09/2015	14:55:53	0.015
194	11/09/2015	14:56:53	0.014
195	11/09/2015	14:57:53	0.015
196	11/09/2015	14:58:53	0.013
197	11/09/2015	14:59:53	0.012
198	11/09/2015	15:00:53	0.013
199	11/09/2015	15:01:53	0.014
200	11/09/2015	15:02:53	0.015
201	11/09/2015	15:03:53	0.014
202	11/09/2015	15:04:53	0.016
203	11/09/2015	15:05:53	0.016
204	11/09/2015	15:06:53	0.013
205	11/09/2015	15:07:53	0.013
206	11/09/2015	15:08:53	0.014
207	11/09/2015	15:09:53	0.013
208	11/09/2015	15:10:53	0.013
209	11/09/2015	15:11:53	0.015
210	11/09/2015	15:12:53	0.013
211	11/09/2015	15:13:53	0.013
212	11/09/2015	15:14:53	0.023
213	11/09/2015	15:15:53	0.015
214	11/09/2015	15:16:53	0.014
215	11/09/2015	15:17:53	0.014
216	11/09/2015	15:18:53	0.015
217	11/09/2015	15:19:53	0.018
218	11/09/2015	15:20:53	0.027
219	11/09/2015	15:21:53	0.015

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
220	11/09/2015	15:22:53	0.015
221	11/09/2015	15:23:53	0.026
222	11/09/2015	15:24:53	0.015
223	11/09/2015	15:25:53	0.017
224	11/09/2015	15:26:53	0.013
225	11/09/2015	15:27:53	0.015
226	11/09/2015	15:28:53	0.016
227	11/09/2015	15:29:53	0.017
228	11/09/2015	15:30:53	0.022
229	11/09/2015	15:31:53	0.018
230	11/09/2015	15:32:53	0.015
231	11/09/2015	15:33:53	0.025
232	11/09/2015	15:34:53	0.021
233	11/09/2015	15:35:53	0.016
234	11/09/2015	15:36:53	0.017
235	11/09/2015	15:37:53	0.017
236	11/09/2015	15:38:53	0.018
237	11/09/2015	15:39:53	0.019
238	11/09/2015	15:40:53	0.017
239	11/09/2015	15:41:53	0.016
240	11/09/2015	15:42:53	0.016
241	11/09/2015	15:43:53	0.015
242	11/09/2015	15:44:53	0.017
243	11/09/2015	15:45:53	0.016
244	11/09/2015	15:46:53	0.015
245	11/09/2015	15:47:53	0.016
246	11/09/2015	15:48:53	0.016
247	11/09/2015	15:49:53	0.016
248	11/09/2015	15:50:53	0.016
249	11/09/2015	15:51:53	0.015
250	11/09/2015	15:52:53	0.017
251	11/09/2015	15:53:53	0.016
252	11/09/2015	15:54:53	0.016
253	11/09/2015	15:55:53	0.022
254	11/09/2015	15:56:53	0.036
255	11/09/2015	15:57:53	0.016
256	11/09/2015	15:58:53	0.016
257	11/09/2015	15:59:53	0.015
258	11/09/2015	16:00:53	0.019
259	11/09/2015	16:01:53	0.025
260	11/09/2015	16:02:53	0.021
261	11/09/2015	16:03:53	0.018
262	11/09/2015	16:04:53	0.022
263	11/09/2015	16:05:53	0.032
264	11/09/2015	16:06:53	0.021
265	11/09/2015	16:07:53	0.021

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
266	11/09/2015	16:08:53	0.020
267	11/09/2015	16:09:53	0.021
268	11/09/2015	16:10:53	0.017
269	11/09/2015	16:11:53	0.016
270	11/09/2015	16:12:53	0.017
271	11/09/2015	16:13:53	0.017
272	11/09/2015	16:14:53	0.019
273	11/09/2015	16:15:53	0.017
274	11/09/2015	16:16:53	0.020
275	11/09/2015	16:17:53	0.017
276	11/09/2015	16:18:53	0.020
277	11/09/2015	16:19:53	0.018
278	11/09/2015	16:20:53	0.016
279	11/09/2015	16:21:53	0.015
280	11/09/2015	16:22:53	0.015
281	11/09/2015	16:23:53	0.047
282	11/09/2015	16:24:53	0.017
283	11/09/2015	16:25:53	0.022
284	11/09/2015	16:26:53	0.020
285	11/09/2015	16:27:53	0.017
286	11/09/2015	16:28:53	0.017
287	11/09/2015	16:29:53	0.017
288	11/09/2015	16:30:53	0.018
289	11/09/2015	16:31:53	0.016
290	11/09/2015	16:32:53	0.017
291	11/09/2015	16:33:53	0.017
292	11/09/2015	16:34:53	0.017
293	11/09/2015	16:35:53	0.022
294	11/09/2015	16:36:53	0.019
295	11/09/2015	16:37:53	0.020
296	11/09/2015	16:38:53	0.019
297	11/09/2015	16:39:53	0.020
298	11/09/2015	16:40:53	0.018
299	11/09/2015	16:41:53	0.019
300	11/09/2015	16:42:53	0.019
301	11/09/2015	16:43:53	0.019
302	11/09/2015	16:44:53	0.019

Test 001

Downwind MW-315

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/10/2015
Instrument S/N	8530130711	Start Time	11:35:10
	FA 00512	Stop Date	11/10/2015
		Stop Time	19:23:10
		Total Time	0:07:48:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.033 mg/m ³
Max	3.340 mg/m ³
Max Date	11/10/2015
Max Time	16:59:10
Min	0.008 mg/m ³
Min Date	11/10/2015
Min Time	16:54:10
TWA (8 hr)	0.032
TWA Start Date	11/10/2015
TWA Start Time	11:35:10
TWA End Time	19:23:10

see note of
readings at
~ 1550.

(21)

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/10/2015
Instrument S/N	8530130711	Start Time	11:35:10
		Stop Date	11/10/2015
		Stop Time	19:23:10
		Total Time	0:07:48:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/10/2015	11:36:10	0.027
2	11/10/2015	11:37:10	0.028
3	11/10/2015	11:38:10	0.028
4	11/10/2015	11:39:10	0.028
5	11/10/2015	11:40:10	0.028
6	11/10/2015	11:41:10	0.028
7	11/10/2015	11:42:10	0.028
8	11/10/2015	11:43:10	0.028
9	11/10/2015	11:44:10	0.027
10	11/10/2015	11:45:10	0.028
11	11/10/2015	11:46:10	0.028
12	11/10/2015	11:47:10	0.028
13	11/10/2015	11:48:10	0.027
14	11/10/2015	11:49:10	0.027
15	11/10/2015	11:50:10	0.028
16	11/10/2015	11:51:10	0.027
17	11/10/2015	11:52:10	0.027
18	11/10/2015	11:53:10	0.027
19	11/10/2015	11:54:10	0.028
20	11/10/2015	11:55:10	0.027
21	11/10/2015	11:56:10	0.027
22	11/10/2015	11:57:10	0.027
23	11/10/2015	11:58:10	0.028
24	11/10/2015	11:59:10	0.028
25	11/10/2015	12:00:10	0.027
26	11/10/2015	12:01:10	0.028
27	11/10/2015	12:02:10	0.027
28	11/10/2015	12:03:10	0.026
29	11/10/2015	12:04:10	0.026
30	11/10/2015	12:05:10	0.026
31	11/10/2015	12:06:10	0.026
32	11/10/2015	12:07:10	0.026
33	11/10/2015	12:08:10	0.026
34	11/10/2015	12:09:10	0.025
35	11/10/2015	12:10:10	0.026

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
36	11/10/2015	12:11:10	0.025
37	11/10/2015	12:12:10	0.026
38	11/10/2015	12:13:10	0.026
39	11/10/2015	12:14:10	0.025
40	11/10/2015	12:15:10	0.026
41	11/10/2015	12:16:10	0.028
42	11/10/2015	12:17:10	0.027
43	11/10/2015	12:18:10	0.026
44	11/10/2015	12:19:10	0.025
45	11/10/2015	12:20:10	0.025
46	11/10/2015	12:21:10	0.027
47	11/10/2015	12:22:10	0.029
48	11/10/2015	12:23:10	0.026
49	11/10/2015	12:24:10	0.026
50	11/10/2015	12:25:10	0.026
51	11/10/2015	12:26:10	0.026
52	11/10/2015	12:27:10	0.026
53	11/10/2015	12:28:10	0.025
54	11/10/2015	12:29:10	0.024
55	11/10/2015	12:30:10	0.025
56	11/10/2015	12:31:10	0.024
57	11/10/2015	12:32:10	0.024
58	11/10/2015	12:33:10	0.024
59	11/10/2015	12:34:10	0.024
60	11/10/2015	12:35:10	0.024
61	11/10/2015	12:36:10	0.024
62	11/10/2015	12:37:10	0.024
63	11/10/2015	12:38:10	0.025
64	11/10/2015	12:39:10	0.024
65	11/10/2015	12:40:10	0.025
66	11/10/2015	12:41:10	0.024
67	11/10/2015	12:42:10	0.025
68	11/10/2015	12:43:10	0.025
69	11/10/2015	12:44:10	0.025
70	11/10/2015	12:45:10	0.025
71	11/10/2015	12:46:10	0.023
72	11/10/2015	12:47:10	0.024
73	11/10/2015	12:48:10	0.024
74	11/10/2015	12:49:10	0.025
75	11/10/2015	12:50:10	0.025
76	11/10/2015	12:51:10	0.025
77	11/10/2015	12:52:10	0.032
78	11/10/2015	12:53:10	0.035
79	11/10/2015	12:54:10	0.025
80	11/10/2015	12:55:10	0.024
81	11/10/2015	12:56:10	0.025

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
82	11/10/2015	12:57:10	0.028
83	11/10/2015	12:58:10	0.026
84	11/10/2015	12:59:10	0.026
85	11/10/2015	13:00:10	0.025
86	11/10/2015	13:01:10	0.024
87	11/10/2015	13:02:10	0.024
88	11/10/2015	13:03:10	0.024
89	11/10/2015	13:04:10	0.024
90	11/10/2015	13:05:10	0.024
91	11/10/2015	13:06:10	0.023
92	11/10/2015	13:07:10	0.024
93	11/10/2015	13:08:10	0.024
94	11/10/2015	13:09:10	0.024
95	11/10/2015	13:10:10	0.024
96	11/10/2015	13:11:10	0.025
97	11/10/2015	13:12:10	0.024
98	11/10/2015	13:13:10	0.025
99	11/10/2015	13:14:10	0.025
100	11/10/2015	13:15:10	0.023
101	11/10/2015	13:16:10	0.023
102	11/10/2015	13:17:10	0.023
103	11/10/2015	13:18:10	0.024
104	11/10/2015	13:19:10	0.024
105	11/10/2015	13:20:10	0.023
106	11/10/2015	13:21:10	0.023
107	11/10/2015	13:22:10	0.026
108	11/10/2015	13:23:10	0.025
109	11/10/2015	13:24:10	0.026
110	11/10/2015	13:25:10	0.024
111	11/10/2015	13:26:10	0.024
112	11/10/2015	13:27:10	0.024
113	11/10/2015	13:28:10	0.024
114	11/10/2015	13:29:10	0.025
115	11/10/2015	13:30:10	0.026
116	11/10/2015	13:31:10	0.024
117	11/10/2015	13:32:10	0.025
118	11/10/2015	13:33:10	0.026
119	11/10/2015	13:34:10	0.027
120	11/10/2015	13:35:10	0.027
121	11/10/2015	13:36:10	0.027
122	11/10/2015	13:37:10	0.029
123	11/10/2015	13:38:10	0.030
124	11/10/2015	13:39:10	0.028
125	11/10/2015	13:40:10	0.029
126	11/10/2015	13:41:10	0.028
127	11/10/2015	13:42:10	0.030

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
128	11/10/2015	13:43:10	0.032
129	11/10/2015	13:44:10	0.033
130	11/10/2015	13:45:10	0.031
131	11/10/2015	13:46:10	0.032
132	11/10/2015	13:47:10	0.030
133	11/10/2015	13:48:10	0.032
134	11/10/2015	13:49:10	0.031
135	11/10/2015	13:50:10	0.031
136	11/10/2015	13:51:10	0.034
137	11/10/2015	13:52:10	0.031
138	11/10/2015	13:53:10	0.055
139	11/10/2015	13:54:10	0.036
140	11/10/2015	13:55:10	0.035
141	11/10/2015	13:56:10	0.030
142	11/10/2015	13:57:10	0.028
143	11/10/2015	13:58:10	0.027
144	11/10/2015	13:59:10	0.026
145	11/10/2015	14:00:10	0.027
146	11/10/2015	14:01:10	0.029
147	11/10/2015	14:02:10	0.026
148	11/10/2015	14:03:10	0.035
149	11/10/2015	14:04:10	0.027
150	11/10/2015	14:05:10	0.025
151	11/10/2015	14:06:10	0.025
152	11/10/2015	14:07:10	0.025
153	11/10/2015	14:08:10	0.024
154	11/10/2015	14:09:10	0.026
155	11/10/2015	14:10:10	0.027
156	11/10/2015	14:11:10	0.025
157	11/10/2015	14:12:10	0.026
158	11/10/2015	14:13:10	0.025
159	11/10/2015	14:14:10	0.024
160	11/10/2015	14:15:10	0.024
161	11/10/2015	14:16:10	0.024
162	11/10/2015	14:17:10	0.023
163	11/10/2015	14:18:10	0.022
164	11/10/2015	14:19:10	0.022
165	11/10/2015	14:20:10	0.021
166	11/10/2015	14:21:10	0.021
167	11/10/2015	14:22:10	0.020
168	11/10/2015	14:23:10	0.020
169	11/10/2015	14:24:10	0.019
170	11/10/2015	14:25:10	0.022
171	11/10/2015	14:26:10	0.022
172	11/10/2015	14:27:10	0.021
173	11/10/2015	14:28:10	0.020

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
174	11/10/2015	14:29:10	0.019
175	11/10/2015	14:30:10	0.019
176	11/10/2015	14:31:10	0.018
177	11/10/2015	14:32:10	0.017
178	11/10/2015	14:33:10	0.017
179	11/10/2015	14:34:10	0.016
180	11/10/2015	14:35:10	0.016
181	11/10/2015	14:36:10	0.016
182	11/10/2015	14:37:10	0.015
183	11/10/2015	14:38:10	0.015
184	11/10/2015	14:39:10	0.014
185	11/10/2015	14:40:10	0.014
186	11/10/2015	14:41:10	0.013
187	11/10/2015	14:42:10	0.013
188	11/10/2015	14:43:10	0.013
189	11/10/2015	14:44:10	0.023
190	11/10/2015	14:45:10	0.030
191	11/10/2015	14:46:10	0.023
192	11/10/2015	14:47:10	0.024
193	11/10/2015	14:48:10	0.026
194	11/10/2015	14:49:10	0.022
195	11/10/2015	14:50:10	0.018
196	11/10/2015	14:51:10	0.018
197	11/10/2015	14:52:10	0.018
198	11/10/2015	14:53:10	0.019
199	11/10/2015	14:54:10	0.017
200	11/10/2015	14:55:10	0.016
201	11/10/2015	14:56:10	0.017
202	11/10/2015	14:57:10	0.017
203	11/10/2015	14:58:10	0.017
204	11/10/2015	14:59:10	0.017
205	11/10/2015	15:00:10	0.017
206	11/10/2015	15:01:10	0.017
207	11/10/2015	15:02:10	0.018
208	11/10/2015	15:03:10	0.017
209	11/10/2015	15:04:10	0.033
210	11/10/2015	15:05:10	0.023
211	11/10/2015	15:06:10	0.023
212	11/10/2015	15:07:10	0.023
213	11/10/2015	15:08:10	0.024
214	11/10/2015	15:09:10	0.024
215	11/10/2015	15:10:10	0.027
216	11/10/2015	15:11:10	0.027
217	11/10/2015	15:12:10	0.027
218	11/10/2015	15:13:10	0.028
219	11/10/2015	15:14:10	0.027

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
220	11/10/2015	15:15:10	0.027
221	11/10/2015	15:16:10	0.026
222	11/10/2015	15:17:10	0.026
223	11/10/2015	15:18:10	0.026
224	11/10/2015	15:19:10	0.025
225	11/10/2015	15:20:10	0.025
226	11/10/2015	15:21:10	0.024
227	11/10/2015	15:22:10	0.024
228	11/10/2015	15:23:10	0.023
229	11/10/2015	15:24:10	0.022
230	11/10/2015	15:25:10	0.022
231	11/10/2015	15:26:10	0.021
232	11/10/2015	15:27:10	0.021
233	11/10/2015	15:28:10	0.020
234	11/10/2015	15:29:10	0.019
235	11/10/2015	15:30:10	0.019
236	11/10/2015	15:31:10	0.018
237	11/10/2015	15:32:10	0.018
238	11/10/2015	15:33:10	0.017
239	11/10/2015	15:34:10	0.017
240	11/10/2015	15:35:10	0.016
241	11/10/2015	15:36:10	0.016
242	11/10/2015	15:37:10	0.015
243	11/10/2015	15:38:10	0.015
244	11/10/2015	15:39:10	0.015
245	11/10/2015	15:40:10	0.014
246	11/10/2015	15:41:10	0.014
247	11/10/2015	15:42:10	0.013
248	11/10/2015	15:43:10	0.013
249	11/10/2015	15:44:10	0.012
250	11/10/2015	15:45:10	0.012
251	11/10/2015	15:46:10	0.012
252	11/10/2015	15:47:10	0.017
253	11/10/2015	15:48:10	0.016
254	11/10/2015	15:49:10	0.016
255	11/10/2015	15:50:10	0.019
256	11/10/2015	15:51:10	0.018
257	11/10/2015	15:52:10	0.020
258	11/10/2015	15:53:10	0.020
259	11/10/2015	15:54:10	0.019
260	11/10/2015	15:55:10	0.019
261	11/10/2015	15:56:10	0.018
262	11/10/2015	15:57:10	0.017
263	11/10/2015	15:58:10	0.016
264	11/10/2015	15:59:10	0.016
265	11/10/2015	16:00:10	0.021

} Parked up
meter but it
did not get
shut off.

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
266	11/10/2015	16:01:10	0.016
267	11/10/2015	16:02:10	0.017
268	11/10/2015	16:03:10	0.014
269	11/10/2015	16:04:10	0.017
270	11/10/2015	16:05:10	0.016
271	11/10/2015	16:06:10	0.014
272	11/10/2015	16:07:10	0.014
273	11/10/2015	16:08:10	0.013
274	11/10/2015	16:09:10	0.012
275	11/10/2015	16:10:10	0.012
276	11/10/2015	16:11:10	0.011
277	11/10/2015	16:12:10	0.011
278	11/10/2015	16:13:10	0.013
279	11/10/2015	16:14:10	0.012
280	11/10/2015	16:15:10	0.012
281	11/10/2015	16:16:10	0.012
282	11/10/2015	16:17:10	0.011
283	11/10/2015	16:18:10	0.011
284	11/10/2015	16:19:10	0.011
285	11/10/2015	16:20:10	0.018
286	11/10/2015	16:21:10	0.066
287	11/10/2015	16:22:10	0.020
288	11/10/2015	16:23:10	0.015
289	11/10/2015	16:24:10	0.156
290	11/10/2015	16:25:10	0.252
291	11/10/2015	16:26:10	0.023
292	11/10/2015	16:27:10	0.019
293	11/10/2015	16:28:10	0.013
294	11/10/2015	16:29:10	0.022
295	11/10/2015	16:30:10	0.024
296	11/10/2015	16:31:10	0.013
297	11/10/2015	16:32:10	0.012
298	11/10/2015	16:33:10	0.012
299	11/10/2015	16:34:10	0.012
300	11/10/2015	16:35:10	0.011
301	11/10/2015	16:36:10	0.010
302	11/10/2015	16:37:10	0.009
303	11/10/2015	16:38:10	0.011
304	11/10/2015	16:39:10	0.013
305	11/10/2015	16:40:10	0.009
306	11/10/2015	16:41:10	0.009
307	11/10/2015	16:42:10	0.010
308	11/10/2015	16:43:10	0.011
309	11/10/2015	16:44:10	0.030
310	11/10/2015	16:45:10	0.009
311	11/10/2015	16:46:10	0.009

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
312	11/10/2015	16:47:10	0.009
313	11/10/2015	16:48:10	0.010
314	11/10/2015	16:49:10	0.011
315	11/10/2015	16:50:10	0.010
316	11/10/2015	16:51:10	0.009
317	11/10/2015	16:52:10	0.009
318	11/10/2015	16:53:10	0.009
319	11/10/2015	16:54:10	0.008
320	11/10/2015	16:55:10	0.008
321	11/10/2015	16:56:10	0.008
322	11/10/2015	16:57:10	0.078
323	11/10/2015	16:58:10	2.490
324	11/10/2015	16:59:10	3.340
325	11/10/2015	17:00:10	0.011
326	11/10/2015	17:01:10	0.010
327	11/10/2015	17:02:10	0.010
328	11/10/2015	17:03:10	0.011
329	11/10/2015	17:04:10	0.010
330	11/10/2015	17:05:10	0.012
331	11/10/2015	17:06:10	0.010
332	11/10/2015	17:07:10	0.011
333	11/10/2015	17:08:10	0.011
334	11/10/2015	17:09:10	0.011
335	11/10/2015	17:10:10	0.011
336	11/10/2015	17:11:10	0.011
337	11/10/2015	17:12:10	0.013
338	11/10/2015	17:13:10	0.013
339	11/10/2015	17:14:10	0.014
340	11/10/2015	17:15:10	0.014
341	11/10/2015	17:16:10	0.014
342	11/10/2015	17:17:10	0.013
343	11/10/2015	17:18:10	0.013
344	11/10/2015	17:19:10	0.012
345	11/10/2015	17:20:10	0.013
346	11/10/2015	17:21:10	0.012
347	11/10/2015	17:22:10	0.012
348	11/10/2015	17:23:10	0.012
349	11/10/2015	17:24:10	0.014
350	11/10/2015	17:25:10	0.012
351	11/10/2015	17:26:10	0.011
352	11/10/2015	17:27:10	0.012
353	11/10/2015	17:28:10	0.013
354	11/10/2015	17:29:10	0.017
355	11/10/2015	17:30:10	0.016
356	11/10/2015	17:31:10	0.016
357	11/10/2015	17:32:10	0.018

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
358	11/10/2015	17:33:10	0.024
359	11/10/2015	17:34:10	0.027
360	11/10/2015	17:35:10	0.034
361	11/10/2015	17:36:10	0.035
362	11/10/2015	17:37:10	0.028
363	11/10/2015	17:38:10	0.029
364	11/10/2015	17:39:10	0.028
365	11/10/2015	17:40:10	0.031
366	11/10/2015	17:41:10	0.024
367	11/10/2015	17:42:10	0.026
368	11/10/2015	17:43:10	0.026
369	11/10/2015	17:44:10	0.026
370	11/10/2015	17:45:10	0.023
371	11/10/2015	17:46:10	0.024
372	11/10/2015	17:47:10	0.021
373	11/10/2015	17:48:10	0.019
374	11/10/2015	17:49:10	0.021
375	11/10/2015	17:50:10	0.019
376	11/10/2015	17:51:10	0.025
377	11/10/2015	17:52:10	0.020
378	11/10/2015	17:53:10	0.017
379	11/10/2015	17:54:10	0.019
380	11/10/2015	17:55:10	0.019
381	11/10/2015	17:56:10	0.019
382	11/10/2015	17:57:10	0.018
383	11/10/2015	17:58:10	0.018
384	11/10/2015	17:59:10	0.018
385	11/10/2015	18:00:10	0.017
386	11/10/2015	18:01:10	0.016
387	11/10/2015	18:02:10	0.016
388	11/10/2015	18:03:10	0.017
389	11/10/2015	18:04:10	0.016
390	11/10/2015	18:05:10	0.015
391	11/10/2015	18:06:10	0.016
392	11/10/2015	18:07:10	0.016
393	11/10/2015	18:08:10	0.015
394	11/10/2015	18:09:10	0.016
395	11/10/2015	18:10:10	0.016
396	11/10/2015	18:11:10	0.014
397	11/10/2015	18:12:10	0.016
398	11/10/2015	18:13:10	0.015
399	11/10/2015	18:14:10	0.015
400	11/10/2015	18:15:10	0.016
401	11/10/2015	18:16:10	0.015
402	11/10/2015	18:17:10	0.014
403	11/10/2015	18:18:10	0.015

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
404	11/10/2015	18:19:10	0.016
405	11/10/2015	18:20:10	0.015
406	11/10/2015	18:21:10	0.015
407	11/10/2015	18:22:10	0.015
408	11/10/2015	18:23:10	0.014
409	11/10/2015	18:24:10	0.015
410	11/10/2015	18:25:10	0.015
411	11/10/2015	18:26:10	0.016
412	11/10/2015	18:27:10	0.014
413	11/10/2015	18:28:10	0.015
414	11/10/2015	18:29:10	0.014
415	11/10/2015	18:30:10	0.014
416	11/10/2015	18:31:10	0.014
417	11/10/2015	18:32:10	0.015
418	11/10/2015	18:33:10	0.014
419	11/10/2015	18:34:10	0.013
420	11/10/2015	18:35:10	0.014
421	11/10/2015	18:36:10	0.013
422	11/10/2015	18:37:10	0.013
423	11/10/2015	18:38:10	0.013
424	11/10/2015	18:39:10	0.013
425	11/10/2015	18:40:10	0.013
426	11/10/2015	18:41:10	0.013
427	11/10/2015	18:42:10	0.013
428	11/10/2015	18:43:10	0.013
429	11/10/2015	18:44:10	0.014
430	11/10/2015	18:45:10	0.013
431	11/10/2015	18:46:10	0.013
432	11/10/2015	18:47:10	0.013
433	11/10/2015	18:48:10	0.012
434	11/10/2015	18:49:10	0.013
435	11/10/2015	18:50:10	0.012
436	11/10/2015	18:51:10	0.012
437	11/10/2015	18:52:10	0.012
438	11/10/2015	18:53:10	0.012
439	11/10/2015	18:54:10	0.012
440	11/10/2015	18:55:10	0.012
441	11/10/2015	18:56:10	0.011
442	11/10/2015	18:57:10	0.012
443	11/10/2015	18:58:10	0.012
444	11/10/2015	18:59:10	0.012
445	11/10/2015	19:00:10	0.012
446	11/10/2015	19:01:10	0.011
447	11/10/2015	19:02:10	0.011
448	11/10/2015	19:03:10	0.011
449	11/10/2015	19:04:10	0.011

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
450	11/10/2015	19:05:10	0.011
451	11/10/2015	19:06:10	0.011
452	11/10/2015	19:07:10	0.011
453	11/10/2015	19:08:10	0.011
454	11/10/2015	19:09:10	0.011
455	11/10/2015	19:10:10	0.011
456	11/10/2015	19:11:10	0.011
457	11/10/2015	19:12:10	0.011
458	11/10/2015	19:13:10	0.011
459	11/10/2015	19:14:10	0.011
460	11/10/2015	19:15:10	0.011
461	11/10/2015	19:16:10	0.011
462	11/10/2015	19:17:10	0.013
463	11/10/2015	19:18:10	0.011
464	11/10/2015	19:19:10	0.011
465	11/10/2015	19:20:10	0.011
466	11/10/2015	19:21:10	0.011
467	11/10/2015	19:22:10	0.011
468	11/10/2015	19:23:10	0.014

Test 002

DOWNWIND
MW-33S

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530130711	Start Time	08:29:11
	PH 00512	Stop Date	11/12/2015
		Stop Time	10:02:11
		Total Time	0:01:33:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.009 mg/m ³
Max	0.023 mg/m ³
Max Date	11/12/2015
Max Time	08:37:11
Min	0.007 mg/m ³
Min Date	11/12/2015
Min Time	09:55:11
TWA (8 hr)	0.002
TWA Start Date	11/12/2015
TWA Start Time	08:29:11
TWA End Time	10:02:11

Test 002

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530130711	Start Time	08:29:11
		Stop Date	11/12/2015
		Stop Time	10:02:11
		Total Time	0:01:33:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/12/2015	08:30:11	0.009
2	11/12/2015	08:31:11	0.009
3	11/12/2015	08:32:11	0.009
4	11/12/2015	08:33:11	0.010
5	11/12/2015	08:34:11	0.009
6	11/12/2015	08:35:11	0.009
7	11/12/2015	08:36:11	0.010
8	11/12/2015	08:37:11	0.023
9	11/12/2015	08:38:11	0.010
10	11/12/2015	08:39:11	0.010
11	11/12/2015	08:40:11	0.010
12	11/12/2015	08:41:11	0.009
13	11/12/2015	08:42:11	0.009
14	11/12/2015	08:43:11	0.009
15	11/12/2015	08:44:11	0.009
16	11/12/2015	08:45:11	0.009
17	11/12/2015	08:46:11	0.009
18	11/12/2015	08:47:11	0.010
19	11/12/2015	08:48:11	0.010
20	11/12/2015	08:49:11	0.010
21	11/12/2015	08:50:11	0.009
22	11/12/2015	08:51:11	0.009
23	11/12/2015	08:52:11	0.009
24	11/12/2015	08:53:11	0.009
25	11/12/2015	08:54:11	0.010
26	11/12/2015	08:55:11	0.009
27	11/12/2015	08:56:11	0.010
28	11/12/2015	08:57:11	0.009
29	11/12/2015	08:58:11	0.009
30	11/12/2015	08:59:11	0.009
31	11/12/2015	09:00:11	0.010
32	11/12/2015	09:01:11	0.010
33	11/12/2015	09:02:11	0.010
34	11/12/2015	09:03:11	0.011
35	11/12/2015	09:04:11	0.011

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/12/2015	09:05:11	0.011
37	11/12/2015	09:06:11	0.012
38	11/12/2015	09:07:11	0.012
39	11/12/2015	09:08:11	0.011
40	11/12/2015	09:09:11	0.012
41	11/12/2015	09:10:11	0.011
42	11/12/2015	09:11:11	0.010
43	11/12/2015	09:12:11	0.010
44	11/12/2015	09:13:11	0.009
45	11/12/2015	09:14:11	0.010
46	11/12/2015	09:15:11	0.010
47	11/12/2015	09:16:11	0.009
48	11/12/2015	09:17:11	0.008
49	11/12/2015	09:18:11	0.009
50	11/12/2015	09:19:11	0.008
51	11/12/2015	09:20:11	0.009
52	11/12/2015	09:21:11	0.009
53	11/12/2015	09:22:11	0.009
54	11/12/2015	09:23:11	0.010
55	11/12/2015	09:24:11	0.016
56	11/12/2015	09:25:11	0.009
57	11/12/2015	09:26:11	0.010
58	11/12/2015	09:27:11	0.008
59	11/12/2015	09:28:11	0.008
60	11/12/2015	09:29:11	0.008
61	11/12/2015	09:30:11	0.009
62	11/12/2015	09:31:11	0.008
63	11/12/2015	09:32:11	0.009
64	11/12/2015	09:33:11	0.012
65	11/12/2015	09:34:11	0.008
66	11/12/2015	09:35:11	0.008
67	11/12/2015	09:36:11	0.009
68	11/12/2015	09:37:11	0.008
69	11/12/2015	09:38:11	0.008
70	11/12/2015	09:39:11	0.008
71	11/12/2015	09:40:11	0.008
72	11/12/2015	09:41:11	0.008
73	11/12/2015	09:42:11	0.008
74	11/12/2015	09:43:11	0.010
75	11/12/2015	09:44:11	0.008
76	11/12/2015	09:45:11	0.008
77	11/12/2015	09:46:11	0.009
78	11/12/2015	09:47:11	0.008
79	11/12/2015	09:48:11	0.010
80	11/12/2015	09:49:11	0.008
81	11/12/2015	09:50:11	0.008

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/12/2015	09:51:11	0.008
83	11/12/2015	09:52:11	0.008
84	11/12/2015	09:53:11	0.009
85	11/12/2015	09:54:11	0.008
86	11/12/2015	09:55:11	0.007
87	11/12/2015	09:56:11	0.008
88	11/12/2015	09:57:11	0.007
89	11/12/2015	09:58:11	0.008
90	11/12/2015	09:59:11	0.007
91	11/12/2015	10:00:11	0.007
92	11/12/2015	10:01:11	0.007
93	11/12/2015	10:02:11	0.007

Test 003

Downwind
MW-33 S

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530130711	Start Time	11:08:00
		Stop Date	11/12/2015
		Stop Time	12:36:00
		Total Time	0:01:28:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.011 mg/m ³
Max	0.019 mg/m ³
Max Date	11/12/2015
Max Time	11:18:00
Min	0.010 mg/m ³
Min Date	11/12/2015
Min Time	11:10:00
TWA (8 hr)	0.002
TWA Start Date	11/12/2015
TWA Start Time	11:08:00
TWA End Time	12:36:00

Test 003

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530130711	Start Time	11:08:00
		Stop Date	11/12/2015
		Stop Time	12:36:00
		Total Time	0:01:28:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/12/2015	11:09:00	0.011
2	11/12/2015	11:10:00	0.010
3	11/12/2015	11:11:00	0.010
4	11/12/2015	11:12:00	0.010
5	11/12/2015	11:13:00	0.010
6	11/12/2015	11:14:00	0.010
7	11/12/2015	11:15:00	0.010
8	11/12/2015	11:16:00	0.010
9	11/12/2015	11:17:00	0.010
10	11/12/2015	11:18:00	0.019
11	11/12/2015	11:19:00	0.010
12	11/12/2015	11:20:00	0.011
13	11/12/2015	11:21:00	0.010
14	11/12/2015	11:22:00	0.010
15	11/12/2015	11:23:00	0.010
16	11/12/2015	11:24:00	0.010
17	11/12/2015	11:25:00	0.010
18	11/12/2015	11:26:00	0.010
19	11/12/2015	11:27:00	0.010
20	11/12/2015	11:28:00	0.010
21	11/12/2015	11:29:00	0.011
22	11/12/2015	11:30:00	0.010
23	11/12/2015	11:31:00	0.010
24	11/12/2015	11:32:00	0.011
25	11/12/2015	11:33:00	0.011
26	11/12/2015	11:34:00	0.011
27	11/12/2015	11:35:00	0.012
28	11/12/2015	11:36:00	0.010
29	11/12/2015	11:37:00	0.011
30	11/12/2015	11:38:00	0.011
31	11/12/2015	11:39:00	0.011
32	11/12/2015	11:40:00	0.011
33	11/12/2015	11:41:00	0.010
34	11/12/2015	11:42:00	0.010
35	11/12/2015	11:43:00	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/12/2015	11:44:00	0.012
37	11/12/2015	11:45:00	0.011
38	11/12/2015	11:46:00	0.011
39	11/12/2015	11:47:00	0.012
40	11/12/2015	11:48:00	0.011
41	11/12/2015	11:49:00	0.011
42	11/12/2015	11:50:00	0.011
43	11/12/2015	11:51:00	0.011
44	11/12/2015	11:52:00	0.011
45	11/12/2015	11:53:00	0.011
46	11/12/2015	11:54:00	0.011
47	11/12/2015	11:55:00	0.011
48	11/12/2015	11:56:00	0.011
49	11/12/2015	11:57:00	0.011
50	11/12/2015	11:58:00	0.012
51	11/12/2015	11:59:00	0.011
52	11/12/2015	12:00:00	0.011
53	11/12/2015	12:01:00	0.012
54	11/12/2015	12:02:00	0.012
55	11/12/2015	12:03:00	0.012
56	11/12/2015	12:04:00	0.012
57	11/12/2015	12:05:00	0.012
58	11/12/2015	12:06:00	0.011
59	11/12/2015	12:07:00	0.012
60	11/12/2015	12:08:00	0.014
61	11/12/2015	12:09:00	0.012
62	11/12/2015	12:10:00	0.011
63	11/12/2015	12:11:00	0.012
64	11/12/2015	12:12:00	0.012
65	11/12/2015	12:13:00	0.012
66	11/12/2015	12:14:00	0.012
67	11/12/2015	12:15:00	0.012
68	11/12/2015	12:16:00	0.012
69	11/12/2015	12:17:00	0.012
70	11/12/2015	12:18:00	0.012
71	11/12/2015	12:19:00	0.012
72	11/12/2015	12:20:00	0.012
73	11/12/2015	12:21:00	0.012
74	11/12/2015	12:22:00	0.013
75	11/12/2015	12:23:00	0.013
76	11/12/2015	12:24:00	0.012
77	11/12/2015	12:25:00	0.012
78	11/12/2015	12:26:00	0.012
79	11/12/2015	12:27:00	0.012
80	11/12/2015	12:28:00	0.012
81	11/12/2015	12:29:00	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/12/2015	12:30:00	0.013
83	11/12/2015	12:31:00	0.012
84	11/12/2015	12:32:00	0.012
85	11/12/2015	12:33:00	0.013
86	11/12/2015	12:34:00	0.013
87	11/12/2015	12:35:00	0.013
88	11/12/2015	12:36:00	0.013

Test 004

Downwind
MW-335

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530130711	Start Time	14:06:05
		Stop Date	11/12/2015
		Stop Time	15:27:05
		Total Time	0:01:21:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.014 mg/m ³
Max	0.021 mg/m ³
Max Date	11/12/2015
Max Time	14:49:05
Min	0.006 mg/m ³
Min Date	11/12/2015
Min Time	15:04:05
TWA (8 hr)	0.002
TWA Start Date	11/12/2015
TWA Start Time	14:06:05
TWA End Time	15:27:05

Test 004

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530130711	Start Time	14:06:05
		Stop Date	11/12/2015
		Stop Time	15:27:05
		Total Time	0:01:21:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/12/2015	14:07:05	0.017
2	11/12/2015	14:08:05	0.019
3	11/12/2015	14:09:05	0.019
4	11/12/2015	14:10:05	0.019
5	11/12/2015	14:11:05	0.018
6	11/12/2015	14:12:05	0.019
7	11/12/2015	14:13:05	0.019
8	11/12/2015	14:14:05	0.018
9	11/12/2015	14:15:05	0.018
10	11/12/2015	14:16:05	0.020
11	11/12/2015	14:17:05	0.018
12	11/12/2015	14:18:05	0.019
13	11/12/2015	14:19:05	0.019
14	11/12/2015	14:20:05	0.020
15	11/12/2015	14:21:05	0.018
16	11/12/2015	14:22:05	0.018
17	11/12/2015	14:23:05	0.018
18	11/12/2015	14:24:05	0.019
19	11/12/2015	14:25:05	0.020
20	11/12/2015	14:26:05	0.018
21	11/12/2015	14:27:05	0.019
22	11/12/2015	14:28:05	0.020
23	11/12/2015	14:29:05	0.018
24	11/12/2015	14:30:05	0.018
25	11/12/2015	14:31:05	0.018
26	11/12/2015	14:32:05	0.018
27	11/12/2015	14:33:05	0.017
28	11/12/2015	14:34:05	0.018
29	11/12/2015	14:35:05	0.017
30	11/12/2015	14:36:05	0.017
31	11/12/2015	14:37:05	0.017
32	11/12/2015	14:38:05	0.017
33	11/12/2015	14:39:05	0.017
34	11/12/2015	14:40:05	0.017
35	11/12/2015	14:41:05	0.018

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/12/2015	14:42:05	0.017
37	11/12/2015	14:43:05	0.017
38	11/12/2015	14:44:05	0.017
39	11/12/2015	14:45:05	0.017
40	11/12/2015	14:46:05	0.018
41	11/12/2015	14:47:05	0.017
42	11/12/2015	14:48:05	0.018
43	11/12/2015	14:49:05	0.021
44	11/12/2015	14:50:05	0.019
45	11/12/2015	14:51:05	0.016
46	11/12/2015	14:52:05	0.015
47	11/12/2015	14:53:05	0.013
48	11/12/2015	14:54:05	0.014
49	11/12/2015	14:55:05	0.013
50	11/12/2015	14:56:05	0.012
51	11/12/2015	14:57:05	0.011
52	11/12/2015	14:58:05	0.011
53	11/12/2015	14:59:05	0.011
54	11/12/2015	15:00:05	0.009
55	11/12/2015	15:01:05	0.008
56	11/12/2015	15:02:05	0.007
57	11/12/2015	15:03:05	0.007
58	11/12/2015	15:04:05	0.006
59	11/12/2015	15:05:05	0.007
60	11/12/2015	15:06:05	0.007
61	11/12/2015	15:07:05	0.007
62	11/12/2015	15:08:05	0.007
63	11/12/2015	15:09:05	0.006
64	11/12/2015	15:10:05	0.006
65	11/12/2015	15:11:05	0.006
66	11/12/2015	15:12:05	0.006
67	11/12/2015	15:13:05	0.006
68	11/12/2015	15:14:05	0.006
69	11/12/2015	15:15:05	0.006
70	11/12/2015	15:16:05	0.006
71	11/12/2015	15:17:05	0.007
72	11/12/2015	15:18:05	0.007
73	11/12/2015	15:19:05	0.007
74	11/12/2015	15:20:05	0.007
75	11/12/2015	15:21:05	0.006
76	11/12/2015	15:22:05	0.007
77	11/12/2015	15:23:05	0.006
78	11/12/2015	15:24:05	0.007
79	11/12/2015	15:25:05	0.007
80	11/12/2015	15:26:05	0.007
81	11/12/2015	15:27:05	0.007

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³

Test 001

Down Wind

mw-345

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/13/2015
Instrument S/N	8530122515	Start Time	11:13:43
	PH00313	Stop Date	11/13/2015
		Stop Time	12:53:43
		Total Time	0:01:40:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.018 mg/m ³
Max	0.038 mg/m ³
Max Date	11/13/2015
Max Time	11:15:43
Min	0.012 mg/m ³
Min Date	11/13/2015
Min Time	12:13:43
TWA (8 hr)	0.004
TWA Start Date	11/13/2015
TWA Start Time	11:13:43
TWA End Time	12:53:43

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/13/2015
Instrument S/N	8530122515	Start Time	11:13:43
		Stop Date	11/13/2015
		Stop Time	12:53:43
		Total Time	0:01:40:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/13/2015	11:14:43	0.034
2	11/13/2015	11:15:43	0.038
3	11/13/2015	11:16:43	0.030
4	11/13/2015	11:17:43	0.024
5	11/13/2015	11:18:43	0.023
6	11/13/2015	11:19:43	0.023
7	11/13/2015	11:20:43	0.023
8	11/13/2015	11:21:43	0.022
9	11/13/2015	11:22:43	0.021
10	11/13/2015	11:23:43	0.020
11	11/13/2015	11:24:43	0.028
12	11/13/2015	11:25:43	0.023
13	11/13/2015	11:26:43	0.021
14	11/13/2015	11:27:43	0.022
15	11/13/2015	11:28:43	0.022
16	11/13/2015	11:29:43	0.021
17	11/13/2015	11:30:43	0.020
18	11/13/2015	11:31:43	0.020
19	11/13/2015	11:32:43	0.020
20	11/13/2015	11:33:43	0.020
21	11/13/2015	11:34:43	0.020
22	11/13/2015	11:35:43	0.022
23	11/13/2015	11:36:43	0.024
24	11/13/2015	11:37:43	0.020
25	11/13/2015	11:38:43	0.020
26	11/13/2015	11:39:43	0.020
27	11/13/2015	11:40:43	0.019
28	11/13/2015	11:41:43	0.019
29	11/13/2015	11:42:43	0.019
30	11/13/2015	11:43:43	0.018
31	11/13/2015	11:44:43	0.018
32	11/13/2015	11:45:43	0.018
33	11/13/2015	11:46:43	0.017
34	11/13/2015	11:47:43	0.019
35	11/13/2015	11:48:43	0.019

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/13/2015	11:49:43	0.017
37	11/13/2015	11:50:43	0.017
38	11/13/2015	11:51:43	0.018
39	11/13/2015	11:52:43	0.018
40	11/13/2015	11:53:43	0.017
41	11/13/2015	11:54:43	0.019
42	11/13/2015	11:55:43	0.020
43	11/13/2015	11:56:43	0.021
44	11/13/2015	11:57:43	0.019
45	11/13/2015	11:58:43	0.018
46	11/13/2015	11:59:43	0.019
47	11/13/2015	12:00:43	0.019
48	11/13/2015	12:01:43	0.018
49	11/13/2015	12:02:43	0.017
50	11/13/2015	12:03:43	0.016
51	11/13/2015	12:04:43	0.016
52	11/13/2015	12:05:43	0.016
53	11/13/2015	12:06:43	0.015
54	11/13/2015	12:07:43	0.014
55	11/13/2015	12:08:43	0.014
56	11/13/2015	12:09:43	0.013
57	11/13/2015	12:10:43	0.013
58	11/13/2015	12:11:43	0.013
59	11/13/2015	12:12:43	0.014
60	11/13/2015	12:13:43	0.012
61	11/13/2015	12:14:43	0.014
62	11/13/2015	12:15:43	0.013
63	11/13/2015	12:16:43	0.014
64	11/13/2015	12:17:43	0.015
65	11/13/2015	12:18:43	0.014
66	11/13/2015	12:19:43	0.014
67	11/13/2015	12:20:43	0.016
68	11/13/2015	12:21:43	0.013
69	11/13/2015	12:22:43	0.014
70	11/13/2015	12:23:43	0.015
71	11/13/2015	12:24:43	0.015
72	11/13/2015	12:25:43	0.014
73	11/13/2015	12:26:43	0.015
74	11/13/2015	12:27:43	0.015
75	11/13/2015	12:28:43	0.014
76	11/13/2015	12:29:43	0.015
77	11/13/2015	12:30:43	0.013
78	11/13/2015	12:31:43	0.012
79	11/13/2015	12:32:43	0.013
80	11/13/2015	12:33:43	0.014
81	11/13/2015	12:34:43	0.013

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/13/2015	12:35:43	0.014
83	11/13/2015	12:36:43	0.013
84	11/13/2015	12:37:43	0.013
85	11/13/2015	12:38:43	0.012
86	11/13/2015	12:39:43	0.012
87	11/13/2015	12:40:43	0.019
88	11/13/2015	12:41:43	0.017
89	11/13/2015	12:42:43	0.015
90	11/13/2015	12:43:43	0.013
91	11/13/2015	12:44:43	0.015
92	11/13/2015	12:45:43	0.016
93	11/13/2015	12:46:43	0.017
94	11/13/2015	12:47:43	0.018
95	11/13/2015	12:48:43	0.019
96	11/13/2015	12:49:43	0.014
97	11/13/2015	12:50:43	0.012
98	11/13/2015	12:51:43	0.013
99	11/13/2015	12:52:43	0.019
100	11/13/2015	12:53:43	0.015

Test 002

Down wind

MW-345

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/16/2015
Instrument S/N	8530130711	Start Time	13:17:22
	FA00512	Stop Date	11/16/2015
		Stop Time	15:47:22
		Total Time	0:02:30:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.035 mg/m ³
Max	0.229 mg/m ³
Max Date	11/16/2015
Max Time	13:51:22
Min	0.013 mg/m ³
Min Date	11/16/2015
Min Time	14:31:22
TWA (8 hr)	0.011
TWA Start Date	11/16/2015
TWA Start Time	13:17:22
TWA End Time	15:47:22

Test 002

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/16/2015
Instrument S/N	8530130711	Start Time	13:17:22
		Stop Date	11/16/2015
		Stop Time	15:47:22
		Total Time	0:02:30:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/16/2015	13:18:22	0.042
2	11/16/2015	13:19:22	0.038
3	11/16/2015	13:20:22	0.037
4	11/16/2015	13:21:22	0.038
5	11/16/2015	13:22:22	0.038
6	11/16/2015	13:23:22	0.037
7	11/16/2015	13:24:22	0.036
8	11/16/2015	13:25:22	0.038
9	11/16/2015	13:26:22	0.036
10	11/16/2015	13:27:22	0.037
11	11/16/2015	13:28:22	0.037
12	11/16/2015	13:29:22	0.035
13	11/16/2015	13:30:22	0.036
14	11/16/2015	13:31:22	0.037
15	11/16/2015	13:32:22	0.035
16	11/16/2015	13:33:22	0.035
17	11/16/2015	13:34:22	0.034
18	11/16/2015	13:35:22	0.038
19	11/16/2015	13:36:22	0.044
20	11/16/2015	13:37:22	0.041
21	11/16/2015	13:38:22	0.041
22	11/16/2015	13:39:22	0.045
23	11/16/2015	13:40:22	0.044
24	11/16/2015	13:41:22	0.084
25	11/16/2015	13:42:22	0.059
26	11/16/2015	13:43:22	0.099
27	11/16/2015	13:44:22	0.098
28	11/16/2015	13:45:22	0.086
29	11/16/2015	13:46:22	0.083
30	11/16/2015	13:47:22	0.137
31	11/16/2015	13:48:22	0.129
32	11/16/2015	13:49:22	0.132
33	11/16/2015	13:50:22	0.146
34	11/16/2015	13:51:22	0.229
35	11/16/2015	13:52:22	0.086

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
36	11/16/2015	13:53:22	0.120
37	11/16/2015	13:54:22	0.094
38	11/16/2015	13:55:22	0.207
39	11/16/2015	13:56:22	0.054
40	11/16/2015	13:57:22	0.053
41	11/16/2015	13:58:22	0.038
42	11/16/2015	13:59:22	0.044
43	11/16/2015	14:00:22	0.045
44	11/16/2015	14:01:22	0.051
45	11/16/2015	14:02:22	0.037
46	11/16/2015	14:03:22	0.036
47	11/16/2015	14:04:22	0.043
48	11/16/2015	14:05:22	0.044
49	11/16/2015	14:06:22	0.038
50	11/16/2015	14:07:22	0.037
51	11/16/2015	14:08:22	0.034
52	11/16/2015	14:09:22	0.036
53	11/16/2015	14:10:22	0.071
54	11/16/2015	14:11:22	0.043
55	11/16/2015	14:12:22	0.034
56	11/16/2015	14:13:22	0.057
57	11/16/2015	14:14:22	0.049
58	11/16/2015	14:15:22	0.031
59	11/16/2015	14:16:22	0.029
60	11/16/2015	14:17:22	0.029
61	11/16/2015	14:18:22	0.033
62	11/16/2015	14:19:22	0.033
63	11/16/2015	14:20:22	0.027
64	11/16/2015	14:21:22	0.025
65	11/16/2015	14:22:22	0.023
66	11/16/2015	14:23:22	0.022
67	11/16/2015	14:24:22	0.019
68	11/16/2015	14:25:22	0.016
69	11/16/2015	14:26:22	0.016
70	11/16/2015	14:27:22	0.015
71	11/16/2015	14:28:22	0.015
72	11/16/2015	14:29:22	0.014
73	11/16/2015	14:30:22	0.014
74	11/16/2015	14:31:22	0.013
75	11/16/2015	14:32:22	0.013
76	11/16/2015	14:33:22	0.013
77	11/16/2015	14:34:22	0.013
78	11/16/2015	14:35:22	0.014
79	11/16/2015	14:36:22	0.027
80	11/16/2015	14:37:22	0.021
81	11/16/2015	14:38:22	0.031

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/16/2015	14:39:22	0.021
83	11/16/2015	14:40:22	0.016
84	11/16/2015	14:41:22	0.015
85	11/16/2015	14:42:22	0.021
86	11/16/2015	14:43:22	0.018
87	11/16/2015	14:44:22	0.018
88	11/16/2015	14:45:22	0.017
89	11/16/2015	14:46:22	0.016
90	11/16/2015	14:47:22	0.015
91	11/16/2015	14:48:22	0.014
92	11/16/2015	14:49:22	0.015
93	11/16/2015	14:50:22	0.022
94	11/16/2015	14:51:22	0.019
95	11/16/2015	14:52:22	0.017
96	11/16/2015	14:53:22	0.022
97	11/16/2015	14:54:22	0.021
98	11/16/2015	14:55:22	0.027
99	11/16/2015	14:56:22	0.021
100	11/16/2015	14:57:22	0.019
101	11/16/2015	14:58:22	0.024
102	11/16/2015	14:59:22	0.030
103	11/16/2015	15:00:22	0.034
104	11/16/2015	15:01:22	0.021
105	11/16/2015	15:02:22	0.019
106	11/16/2015	15:03:22	0.016
107	11/16/2015	15:04:22	0.019
108	11/16/2015	15:05:22	0.021
109	11/16/2015	15:06:22	0.014
110	11/16/2015	15:07:22	0.025
111	11/16/2015	15:08:22	0.024
112	11/16/2015	15:09:22	0.021
113	11/16/2015	15:10:22	0.018
114	11/16/2015	15:11:22	0.021
115	11/16/2015	15:12:22	0.019
116	11/16/2015	15:13:22	0.026
117	11/16/2015	15:14:22	0.032
118	11/16/2015	15:15:22	0.019
119	11/16/2015	15:16:22	0.015
120	11/16/2015	15:17:22	0.013
121	11/16/2015	15:18:22	0.013
122	11/16/2015	15:19:22	0.013
123	11/16/2015	15:20:22	0.013
124	11/16/2015	15:21:22	0.014
125	11/16/2015	15:22:22	0.013
126	11/16/2015	15:23:22	0.014
127	11/16/2015	15:24:22	0.014

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
128	11/16/2015	15:25:22	0.014
129	11/16/2015	15:26:22	0.014
130	11/16/2015	15:27:22	0.014
131	11/16/2015	15:28:22	0.014
132	11/16/2015	15:29:22	0.014
133	11/16/2015	15:30:22	0.014
134	11/16/2015	15:31:22	0.014
135	11/16/2015	15:32:22	0.014
136	11/16/2015	15:33:22	0.015
137	11/16/2015	15:34:22	0.014
138	11/16/2015	15:35:22	0.015
139	11/16/2015	15:36:22	0.014
140	11/16/2015	15:37:22	0.015
141	11/16/2015	15:38:22	0.014
142	11/16/2015	15:39:22	0.013
143	11/16/2015	15:40:22	0.013
144	11/16/2015	15:41:22	0.014
145	11/16/2015	15:42:22	0.013
146	11/16/2015	15:43:22	0.013
147	11/16/2015	15:44:22	0.014
148	11/16/2015	15:45:22	0.013
149	11/16/2015	15:46:22	0.013
150	11/16/2015	15:47:22	0.013

Test 003

Downwind MW-365

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/17/2015
Instrument S/N	8530130711	Start Time	09:16:34
	FA00512	Stop Date	11/17/2015
		Stop Time	12:23:34
		Total Time	0:03:07:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.057 mg/m ³
Max	5.280 mg/m ³
Max Date	11/17/2015
Max Time	11:02:34
Min	0.010 mg/m ³
Min Date	11/17/2015
Min Time	10:41:34
TWA (8 hr)	0.022
TWA Start Date	11/17/2015
TWA Start Time	09:16:34
TWA End Time	12:23:34

Test 003

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/17/2015
Instrument S/N	8530130711	Start Time	09:16:34
		Stop Date	11/17/2015
		Stop Time	12:23:34
		Total Time	0:03:07:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/17/2015	09:17:34	0.018
2	11/17/2015	09:18:34	0.017
3	11/17/2015	09:19:34	0.025
4	11/17/2015	09:20:34	0.019
5	11/17/2015	09:21:34	0.019
6	11/17/2015	09:22:34	0.018
7	11/17/2015	09:23:34	0.018
8	11/17/2015	09:24:34	0.017
9	11/17/2015	09:25:34	0.017
10	11/17/2015	09:26:34	0.017
11	11/17/2015	09:27:34	0.017
12	11/17/2015	09:28:34	0.016
13	11/17/2015	09:29:34	0.016
14	11/17/2015	09:30:34	0.016
15	11/17/2015	09:31:34	0.015
16	11/17/2015	09:32:34	0.016
17	11/17/2015	09:33:34	0.015
18	11/17/2015	09:34:34	0.015
19	11/17/2015	09:35:34	0.016
20	11/17/2015	09:36:34	0.015
21	11/17/2015	09:37:34	0.015
22	11/17/2015	09:38:34	0.015
23	11/17/2015	09:39:34	0.016
24	11/17/2015	09:40:34	0.018
25	11/17/2015	09:41:34	0.016
26	11/17/2015	09:42:34	0.015
27	11/17/2015	09:43:34	0.017
28	11/17/2015	09:44:34	0.015
29	11/17/2015	09:45:34	0.015
30	11/17/2015	09:46:34	0.015
31	11/17/2015	09:47:34	0.015
32	11/17/2015	09:48:34	0.017
33	11/17/2015	09:49:34	0.014
34	11/17/2015	09:50:34	0.014
35	11/17/2015	09:51:34	0.014

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
36	11/17/2015	09:52:34	0.014
37	11/17/2015	09:53:34	0.014
38	11/17/2015	09:54:34	0.014
39	11/17/2015	09:55:34	0.014
40	11/17/2015	09:56:34	0.014
41	11/17/2015	09:57:34	0.014
42	11/17/2015	09:58:34	0.014
43	11/17/2015	09:59:34	0.014
44	11/17/2015	10:00:34	0.014
45	11/17/2015	10:01:34	0.024
46	11/17/2015	10:02:34	0.026
47	11/17/2015	10:03:34	0.015
48	11/17/2015	10:04:34	0.014
49	11/17/2015	10:05:34	0.014
50	11/17/2015	10:06:34	0.017
51	11/17/2015	10:07:34	0.017
52	11/17/2015	10:08:34	0.016
53	11/17/2015	10:09:34	0.016
54	11/17/2015	10:10:34	0.015
55	11/17/2015	10:11:34	0.015
56	11/17/2015	10:12:34	0.015
57	11/17/2015	10:13:34	0.014
58	11/17/2015	10:14:34	0.014
59	11/17/2015	10:15:34	0.013
60	11/17/2015	10:16:34	0.014
61	11/17/2015	10:17:34	0.013
62	11/17/2015	10:18:34	0.018
63	11/17/2015	10:19:34	0.015
64	11/17/2015	10:20:34	0.026
65	11/17/2015	10:21:34	0.014
66	11/17/2015	10:22:34	0.012
67	11/17/2015	10:23:34	0.012
68	11/17/2015	10:24:34	0.012
69	11/17/2015	10:25:34	0.015
70	11/17/2015	10:26:34	0.014
71	11/17/2015	10:27:34	0.011
72	11/17/2015	10:28:34	0.011
73	11/17/2015	10:29:34	0.011
74	11/17/2015	10:30:34	0.011
75	11/17/2015	10:31:34	0.011
76	11/17/2015	10:32:34	0.013
77	11/17/2015	10:33:34	0.017
78	11/17/2015	10:34:34	0.016
79	11/17/2015	10:35:34	0.013
80	11/17/2015	10:36:34	0.011
81	11/17/2015	10:37:34	0.011

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/17/2015	10:38:34	0.012
83	11/17/2015	10:39:34	0.011
84	11/17/2015	10:40:34	0.011
85	11/17/2015	10:41:34	0.010
86	11/17/2015	10:42:34	0.010
87	11/17/2015	10:43:34	0.010
88	11/17/2015	10:44:34	0.010
89	11/17/2015	10:45:34	0.011
90	11/17/2015	10:46:34	0.011
91	11/17/2015	10:47:34	0.011
92	11/17/2015	10:48:34	0.011
93	11/17/2015	10:49:34	0.010
94	11/17/2015	10:50:34	0.011
95	11/17/2015	10:51:34	0.010
96	11/17/2015	10:52:34	0.010
97	11/17/2015	10:53:34	0.010
98	11/17/2015	10:54:34	0.011
99	11/17/2015	10:55:34	0.011
100	11/17/2015	10:56:34	0.011
101	11/17/2015	10:57:34	0.021
102	11/17/2015	10:58:34	0.017
103	11/17/2015	10:59:34	0.021
104	11/17/2015	11:00:34	0.055
105	11/17/2015	11:01:34	0.024
106	11/17/2015	11:02:34	5.280
107	11/17/2015	11:03:34	2.620
108	11/17/2015	11:04:34	0.011
109	11/17/2015	11:05:34	0.013
110	11/17/2015	11:06:34	0.013
111	11/17/2015	11:07:34	0.012
112	11/17/2015	11:08:34	0.014
113	11/17/2015	11:09:34	0.012
114	11/17/2015	11:10:34	0.011
115	11/17/2015	11:11:34	0.012
116	11/17/2015	11:12:34	0.012
117	11/17/2015	11:13:34	0.012
118	11/17/2015	11:14:34	0.012
119	11/17/2015	11:15:34	0.012
120	11/17/2015	11:16:34	0.014
121	11/17/2015	11:17:34	0.014
122	11/17/2015	11:18:34	0.016
123	11/17/2015	11:19:34	0.015
124	11/17/2015	11:20:34	0.017
125	11/17/2015	11:21:34	0.020
126	11/17/2015	11:22:34	0.023
127	11/17/2015	11:23:34	0.025

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/17/2015	11:24:34	0.021
129	11/17/2015	11:25:34	0.042
130	11/17/2015	11:26:34	0.014
131	11/17/2015	11:27:34	0.024
132	11/17/2015	11:28:34	0.031
133	11/17/2015	11:29:34	0.017
134	11/17/2015	11:30:34	0.013
135	11/17/2015	11:31:34	0.013
136	11/17/2015	11:32:34	0.017
137	11/17/2015	11:33:34	0.015
138	11/17/2015	11:34:34	0.020
139	11/17/2015	11:35:34	0.014
140	11/17/2015	11:36:34	0.013
141	11/17/2015	11:37:34	0.012
142	11/17/2015	11:38:34	0.014
143	11/17/2015	11:39:34	0.013
144	11/17/2015	11:40:34	0.013
145	11/17/2015	11:41:34	0.013
146	11/17/2015	11:42:34	0.012
147	11/17/2015	11:43:34	0.012
148	11/17/2015	11:44:34	0.011
149	11/17/2015	11:45:34	0.012
150	11/17/2015	11:46:34	0.011
151	11/17/2015	11:47:34	0.011
152	11/17/2015	11:48:34	0.011
153	11/17/2015	11:49:34	0.011
154	11/17/2015	11:50:34	0.011
155	11/17/2015	11:51:34	0.011
156	11/17/2015	11:52:34	0.012
157	11/17/2015	11:53:34	0.011
158	11/17/2015	11:54:34	0.011
159	11/17/2015	11:55:34	0.011
160	11/17/2015	11:56:34	0.011
161	11/17/2015	11:57:34	0.012
162	11/17/2015	11:58:34	0.012
163	11/17/2015	11:59:34	0.010
164	11/17/2015	12:00:34	0.010
165	11/17/2015	12:01:34	0.014
166	11/17/2015	12:02:34	0.011
167	11/17/2015	12:03:34	0.010
168	11/17/2015	12:04:34	0.012
169	11/17/2015	12:05:34	0.011
170	11/17/2015	12:06:34	0.011
171	11/17/2015	12:07:34	0.011
172	11/17/2015	12:08:34	0.011
173	11/17/2015	12:09:34	0.011

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
174	11/17/2015	12:10:34	0.011
175	11/17/2015	12:11:34	0.011
176	11/17/2015	12:12:34	0.011
177	11/17/2015	12:13:34	0.011
178	11/17/2015	12:14:34	0.010
179	11/17/2015	12:15:34	0.010
180	11/17/2015	12:16:34	0.010
181	11/17/2015	12:17:34	0.011
182	11/17/2015	12:18:34	0.012
183	11/17/2015	12:19:34	0.010
184	11/17/2015	12:20:34	0.012
185	11/17/2015	12:21:34	0.011
186	11/17/2015	12:22:34	0.011
187	11/17/2015	12:23:34	0.011

Test 004

Downwind MW-355

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/18/2015
Instrument S/N	8530130711	Start Time	07:46:45
	PA00572	Stop Date	11/18/2015
		Stop Time	09:30:45
		Total Time	0:01:44:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.014 mg/m ³
Max	0.021 mg/m ³
Max Date	11/18/2015
Max Time	08:05:45
Min	0.011 mg/m ³
Min Date	11/18/2015
Min Time	09:17:45
TWA (8 hr)	0.003
TWA Start Date	11/18/2015
TWA Start Time	07:46:45
TWA End Time	09:30:45

Test 004

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/18/2015
Instrument S/N	8530130711	Start Time	07:46:45
		Stop Date	11/18/2015
		Stop Time	09:30:45
		Total Time	0:01:44:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/18/2015	07:47:45	0.017
2	11/18/2015	07:48:45	0.017
3	11/18/2015	07:49:45	0.017
4	11/18/2015	07:50:45	0.016
5	11/18/2015	07:51:45	0.017
6	11/18/2015	07:52:45	0.016
7	11/18/2015	07:53:45	0.016
8	11/18/2015	07:54:45	0.016
9	11/18/2015	07:55:45	0.016
10	11/18/2015	07:56:45	0.016
11	11/18/2015	07:57:45	0.015
12	11/18/2015	07:58:45	0.016
13	11/18/2015	07:59:45	0.015
14	11/18/2015	08:00:45	0.016
15	11/18/2015	08:01:45	0.016
16	11/18/2015	08:02:45	0.019
17	11/18/2015	08:03:45	0.017
18	11/18/2015	08:04:45	0.015
19	11/18/2015	08:05:45	0.021
20	11/18/2015	08:06:45	0.016
21	11/18/2015	08:07:45	0.019
22	11/18/2015	08:08:45	0.017
23	11/18/2015	08:09:45	0.017
24	11/18/2015	08:10:45	0.018
25	11/18/2015	08:11:45	0.016
26	11/18/2015	08:12:45	0.017
27	11/18/2015	08:13:45	0.019
28	11/18/2015	08:14:45	0.019
29	11/18/2015	08:15:45	0.019
30	11/18/2015	08:16:45	0.016
31	11/18/2015	08:17:45	0.017
32	11/18/2015	08:18:45	0.014
33	11/18/2015	08:19:45	0.014
34	11/18/2015	08:20:45	0.016
35	11/18/2015	08:21:45	0.015

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/18/2015	08:22:45	0.015
37	11/18/2015	08:23:45	0.014
38	11/18/2015	08:24:45	0.015
39	11/18/2015	08:25:45	0.016
40	11/18/2015	08:26:45	0.018
41	11/18/2015	08:27:45	0.014
42	11/18/2015	08:28:45	0.013
43	11/18/2015	08:29:45	0.013
44	11/18/2015	08:30:45	0.013
45	11/18/2015	08:31:45	0.013
46	11/18/2015	08:32:45	0.013
47	11/18/2015	08:33:45	0.013
48	11/18/2015	08:34:45	0.013
49	11/18/2015	08:35:45	0.013
50	11/18/2015	08:36:45	0.013
51	11/18/2015	08:37:45	0.014
52	11/18/2015	08:38:45	0.013
53	11/18/2015	08:39:45	0.013
54	11/18/2015	08:40:45	0.013
55	11/18/2015	08:41:45	0.013
56	11/18/2015	08:42:45	0.013
57	11/18/2015	08:43:45	0.013
58	11/18/2015	08:44:45	0.013
59	11/18/2015	08:45:45	0.014
60	11/18/2015	08:46:45	0.014
61	11/18/2015	08:47:45	0.013
62	11/18/2015	08:48:45	0.012
63	11/18/2015	08:49:45	0.012
64	11/18/2015	08:50:45	0.013
65	11/18/2015	08:51:45	0.012
66	11/18/2015	08:52:45	0.012
67	11/18/2015	08:53:45	0.012
68	11/18/2015	08:54:45	0.012
69	11/18/2015	08:55:45	0.012
70	11/18/2015	08:56:45	0.012
71	11/18/2015	08:57:45	0.012
72	11/18/2015	08:58:45	0.012
73	11/18/2015	08:59:45	0.012
74	11/18/2015	09:00:45	0.012
75	11/18/2015	09:01:45	0.012
76	11/18/2015	09:02:45	0.012
77	11/18/2015	09:03:45	0.012
78	11/18/2015	09:04:45	0.012
79	11/18/2015	09:05:45	0.012
80	11/18/2015	09:06:45	0.012
81	11/18/2015	09:07:45	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/18/2015	09:08:45	0.012
83	11/18/2015	09:09:45	0.012
84	11/18/2015	09:10:45	0.012
85	11/18/2015	09:11:45	0.012
86	11/18/2015	09:12:45	0.012
87	11/18/2015	09:13:45	0.012
88	11/18/2015	09:14:45	0.012
89	11/18/2015	09:15:45	0.012
90	11/18/2015	09:16:45	0.012
91	11/18/2015	09:17:45	0.011
92	11/18/2015	09:18:45	0.011
93	11/18/2015	09:19:45	0.011
94	11/18/2015	09:20:45	0.012
95	11/18/2015	09:21:45	0.011
96	11/18/2015	09:22:45	0.011
97	11/18/2015	09:23:45	0.012
98	11/18/2015	09:24:45	0.012
99	11/18/2015	09:25:45	0.011
100	11/18/2015	09:26:45	0.011
101	11/18/2015	09:27:45	0.011
102	11/18/2015	09:28:45	0.011
103	11/18/2015	09:29:45	0.011
104	11/18/2015	09:30:45	0.011

Test 006

Downwind mw-32 s/p

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/18/2015
Instrument S/N	8530122515	Start Time	14:26:16
	FA00313	Stop Date	11/18/2015
		Stop Time	17:13:16
		Total Time	0:02:47:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.088 mg/m ³
Max	1.470 mg/m ³
Max Date	11/18/2015
Max Time	15:11:16
Min	0.005 mg/m ³
Min Date	11/18/2015
Min Time	14:46:16
TWA (8 hr)	0.031
TWA Start Date	11/18/2015
TWA Start Time	14:26:16
TWA End Time	17:13:16

Test 006

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/18/2015
Instrument S/N	8530122515	Start Time	14:26:16
		Stop Date	11/18/2015
		Stop Time	17:13:16
		Total Time	0:02:47:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/18/2015	14:27:16	0.006
2	11/18/2015	14:28:16	0.012
3	11/18/2015	14:29:16	0.008
4	11/18/2015	14:30:16	0.007
5	11/18/2015	14:31:16	0.006
6	11/18/2015	14:32:16	0.009
7	11/18/2015	14:33:16	0.006
8	11/18/2015	14:34:16	0.007
9	11/18/2015	14:35:16	0.006
10	11/18/2015	14:36:16	0.009
11	11/18/2015	14:37:16	0.007
12	11/18/2015	14:38:16	0.007
13	11/18/2015	14:39:16	0.006
14	11/18/2015	14:40:16	0.008
15	11/18/2015	14:41:16	0.006
16	11/18/2015	14:42:16	0.008
17	11/18/2015	14:43:16	0.007
18	11/18/2015	14:44:16	0.007
19	11/18/2015	14:45:16	0.007
20	11/18/2015	14:46:16	0.005
21	11/18/2015	14:47:16	0.005
22	11/18/2015	14:48:16	0.007
23	11/18/2015	14:49:16	0.005
24	11/18/2015	14:50:16	0.007
25	11/18/2015	14:51:16	0.005
26	11/18/2015	14:52:16	0.006
27	11/18/2015	14:53:16	0.007
28	11/18/2015	14:54:16	0.041
29	11/18/2015	14:55:16	0.085
30	11/18/2015	14:56:16	0.088
31	11/18/2015	14:57:16	0.053
32	11/18/2015	14:58:16	0.072
33	11/18/2015	14:59:16	0.103
34	11/18/2015	15:00:16	0.076
35	11/18/2015	15:01:16	0.027

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/18/2015	15:02:16	0.053
37	11/18/2015	15:03:16	0.009
38	11/18/2015	15:04:16	0.005
39	11/18/2015	15:05:16	0.006
40	11/18/2015	15:06:16	0.006
41	11/18/2015	15:07:16	0.007
42	11/18/2015	15:08:16	0.008
43	11/18/2015	15:09:16	0.007
44	11/18/2015	15:10:16	0.046
45	11/18/2015	15:11:16	1.470
46	11/18/2015	15:12:16	0.011
47	11/18/2015	15:13:16	0.018
48	11/18/2015	15:14:16	0.036
49	11/18/2015	15:15:16	1.070
50	11/18/2015	15:16:16	0.036
51	11/18/2015	15:17:16	0.299
52	11/18/2015	15:18:16	0.245
53	11/18/2015	15:19:16	0.184
54	11/18/2015	15:20:16	0.159
55	11/18/2015	15:21:16	0.064
56	11/18/2015	15:22:16	0.225
57	11/18/2015	15:23:16	0.005
58	11/18/2015	15:24:16	0.012
59	11/18/2015	15:25:16	0.008
60	11/18/2015	15:26:16	0.312
61	11/18/2015	15:27:16	0.034
62	11/18/2015	15:28:16	0.088
63	11/18/2015	15:29:16	0.258
64	11/18/2015	15:30:16	0.230
65	11/18/2015	15:31:16	0.395
66	11/18/2015	15:32:16	0.180
67	11/18/2015	15:33:16	0.154
68	11/18/2015	15:34:16	0.335
69	11/18/2015	15:35:16	0.324
70	11/18/2015	15:36:16	0.519
71	11/18/2015	15:37:16	0.696
72	11/18/2015	15:38:16	0.195
73	11/18/2015	15:39:16	1.210
74	11/18/2015	15:40:16	0.065
75	11/18/2015	15:41:16	0.077
76	11/18/2015	15:42:16	0.110
77	11/18/2015	15:43:16	0.529
78	11/18/2015	15:44:16	0.082
79	11/18/2015	15:45:16	0.049
80	11/18/2015	15:46:16	0.077
81	11/18/2015	15:47:16	0.102

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/18/2015	15:48:16	0.155
83	11/18/2015	15:49:16	0.051
84	11/18/2015	15:50:16	0.006
85	11/18/2015	15:51:16	0.006
86	11/18/2015	15:52:16	0.008
87	11/18/2015	15:53:16	0.008
88	11/18/2015	15:54:16	0.005
89	11/18/2015	15:55:16	0.007
90	11/18/2015	15:56:16	0.005
91	11/18/2015	15:57:16	0.007
92	11/18/2015	15:58:16	0.005
93	11/18/2015	15:59:16	0.007
94	11/18/2015	16:00:16	0.006
95	11/18/2015	16:01:16	0.006
96	11/18/2015	16:02:16	0.005
97	11/18/2015	16:03:16	0.006
98	11/18/2015	16:04:16	0.010
99	11/18/2015	16:05:16	0.005
100	11/18/2015	16:06:16	0.006
101	11/18/2015	16:07:16	0.005
102	11/18/2015	16:08:16	0.005
103	11/18/2015	16:09:16	0.006
104	11/18/2015	16:10:16	0.006
105	11/18/2015	16:11:16	0.006
106	11/18/2015	16:12:16	0.005
107	11/18/2015	16:13:16	0.006
108	11/18/2015	16:14:16	0.006
109	11/18/2015	16:15:16	0.006
110	11/18/2015	16:16:16	0.006
111	11/18/2015	16:17:16	0.043
112	11/18/2015	16:18:16	0.093
113	11/18/2015	16:19:16	0.135
114	11/18/2015	16:20:16	0.049
115	11/18/2015	16:21:16	0.047
116	11/18/2015	16:22:16	0.055
117	11/18/2015	16:23:16	0.057
118	11/18/2015	16:24:16	0.752
119	11/18/2015	16:25:16	0.043
120	11/18/2015	16:26:16	0.041
121	11/18/2015	16:27:16	0.148
122	11/18/2015	16:28:16	0.025
123	11/18/2015	16:29:16	0.011
124	11/18/2015	16:30:16	0.013
125	11/18/2015	16:31:16	0.038
126	11/18/2015	16:32:16	0.062
127	11/18/2015	16:33:16	0.011

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/18/2015	16:34:16	0.017
129	11/18/2015	16:35:16	0.012
130	11/18/2015	16:36:16	0.047
131	11/18/2015	16:37:16	0.036
132	11/18/2015	16:38:16	0.032
133	11/18/2015	16:39:16	0.020
134	11/18/2015	16:40:16	0.018
135	11/18/2015	16:41:16	0.024
136	11/18/2015	16:42:16	0.022
137	11/18/2015	16:43:16	0.046
138	11/18/2015	16:44:16	0.020
139	11/18/2015	16:45:16	0.041
140	11/18/2015	16:46:16	0.047
141	11/18/2015	16:47:16	0.020
142	11/18/2015	16:48:16	0.036
143	11/18/2015	16:49:16	0.012
144	11/18/2015	16:50:16	0.023
145	11/18/2015	16:51:16	0.064
146	11/18/2015	16:52:16	0.246
147	11/18/2015	16:53:16	0.084
148	11/18/2015	16:54:16	0.125
149	11/18/2015	16:55:16	0.075
150	11/18/2015	16:56:16	0.025
151	11/18/2015	16:57:16	0.144
152	11/18/2015	16:58:16	0.074
153	11/18/2015	16:59:16	0.090
154	11/18/2015	17:00:16	0.052
155	11/18/2015	17:01:16	0.042
156	11/18/2015	17:02:16	0.049
157	11/18/2015	17:03:16	0.043
158	11/18/2015	17:04:16	0.057
159	11/18/2015	17:05:16	0.057
160	11/18/2015	17:06:16	0.043
161	11/18/2015	17:07:16	0.051
162	11/18/2015	17:08:16	0.045
163	11/18/2015	17:09:16	0.046
164	11/18/2015	17:10:16	0.033
165	11/18/2015	17:11:16	0.014
166	11/18/2015	17:12:16	0.009
167	11/18/2015	17:13:16	0.008

Test 001 Downwind MW325/D

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/19/2015
Instrument S/N	8530122515	Start Time	08:06:40
	FA00313	Stop Date	11/19/2015
		Stop Time	10:20:40
		Total Time	0:02:14:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.026 mg/m ³
Max	0.283 mg/m ³
Max Date	11/19/2015
Max Time	08:10:40
Min	0.002 mg/m ³
Min Date	11/19/2015
Min Time	08:59:40
TWA (8 hr)	0.007
TWA Start Date	11/19/2015
TWA Start Time	08:06:40
TWA End Time	10:20:40

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/19/2015
Instrument S/N	8530122515	Start Time	08:06:40
		Stop Date	11/19/2015
		Stop Time	10:20:40
		Total Time	0:02:14:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/19/2015	08:07:40	0.013
2	11/19/2015	08:08:40	0.040
3	11/19/2015	08:09:40	0.155
4	11/19/2015	08:10:40	0.283
5	11/19/2015	08:11:40	0.194
6	11/19/2015	08:12:40	0.046
7	11/19/2015	08:13:40	0.073
8	11/19/2015	08:14:40	0.130
9	11/19/2015	08:15:40	0.155
10	11/19/2015	08:16:40	0.048
11	11/19/2015	08:17:40	0.084
12	11/19/2015	08:18:40	0.113
13	11/19/2015	08:19:40	0.061
14	11/19/2015	08:20:40	0.070
15	11/19/2015	08:21:40	0.065
16	11/19/2015	08:22:40	0.008
17	11/19/2015	08:23:40	0.026
18	11/19/2015	08:24:40	0.056
19	11/19/2015	08:25:40	0.030
20	11/19/2015	08:26:40	0.012
21	11/19/2015	08:27:40	0.009
22	11/19/2015	08:28:40	0.010
23	11/19/2015	08:29:40	0.013
24	11/19/2015	08:30:40	0.009
25	11/19/2015	08:31:40	0.015
26	11/19/2015	08:32:40	0.010
27	11/19/2015	08:33:40	0.010
28	11/19/2015	08:34:40	0.011
29	11/19/2015	08:35:40	0.018
30	11/19/2015	08:36:40	0.009
31	11/19/2015	08:37:40	0.023
32	11/19/2015	08:38:40	0.024
33	11/19/2015	08:39:40	0.015
34	11/19/2015	08:40:40	0.019
35	11/19/2015	08:41:40	0.025

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/19/2015	08:42:40	0.020
37	11/19/2015	08:43:40	0.008
38	11/19/2015	08:44:40	0.015
39	11/19/2015	08:45:40	0.021
40	11/19/2015	08:46:40	0.025
41	11/19/2015	08:47:40	0.016
42	11/19/2015	08:48:40	0.028
43	11/19/2015	08:49:40	0.015
44	11/19/2015	08:50:40	0.009
45	11/19/2015	08:51:40	0.009
46	11/19/2015	08:52:40	0.019
47	11/19/2015	08:53:40	0.011
48	11/19/2015	08:54:40	0.026
49	11/19/2015	08:55:40	0.005
50	11/19/2015	08:56:40	0.003
51	11/19/2015	08:57:40	0.003
52	11/19/2015	08:58:40	0.003
53	11/19/2015	08:59:40	0.002
54	11/19/2015	09:00:40	0.003
55	11/19/2015	09:01:40	0.006
56	11/19/2015	09:02:40	0.004
57	11/19/2015	09:03:40	0.002
58	11/19/2015	09:04:40	0.005
59	11/19/2015	09:05:40	0.003
60	11/19/2015	09:06:40	0.003
61	11/19/2015	09:07:40	0.003
62	11/19/2015	09:08:40	0.003
63	11/19/2015	09:09:40	0.003
64	11/19/2015	09:10:40	0.003
65	11/19/2015	09:11:40	0.002
66	11/19/2015	09:12:40	0.003
67	11/19/2015	09:13:40	0.004
68	11/19/2015	09:14:40	0.006
69	11/19/2015	09:15:40	0.005
70	11/19/2015	09:16:40	0.044
71	11/19/2015	09:17:40	0.034
72	11/19/2015	09:18:40	0.016
73	11/19/2015	09:19:40	0.016
74	11/19/2015	09:20:40	0.020
75	11/19/2015	09:21:40	0.028
76	11/19/2015	09:22:40	0.024
77	11/19/2015	09:23:40	0.011
78	11/19/2015	09:24:40	0.012
79	11/19/2015	09:25:40	0.011
80	11/19/2015	09:26:40	0.018
81	11/19/2015	09:27:40	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/19/2015	09:28:40	0.014
83	11/19/2015	09:29:40	0.007
84	11/19/2015	09:30:40	0.012
85	11/19/2015	09:31:40	0.022
86	11/19/2015	09:32:40	0.006
87	11/19/2015	09:33:40	0.004
88	11/19/2015	09:34:40	0.020
89	11/19/2015	09:35:40	0.009
90	11/19/2015	09:36:40	0.017
91	11/19/2015	09:37:40	0.013
92	11/19/2015	09:38:40	0.031
93	11/19/2015	09:39:40	0.030
94	11/19/2015	09:40:40	0.029
95	11/19/2015	09:41:40	0.018
96	11/19/2015	09:42:40	0.013
97	11/19/2015	09:43:40	0.016
98	11/19/2015	09:44:40	0.035
99	11/19/2015	09:45:40	0.012
100	11/19/2015	09:46:40	0.009
101	11/19/2015	09:47:40	0.013
102	11/19/2015	09:48:40	0.012
103	11/19/2015	09:49:40	0.012
104	11/19/2015	09:50:40	0.022
105	11/19/2015	09:51:40	0.015
106	11/19/2015	09:52:40	0.020
107	11/19/2015	09:53:40	0.012
108	11/19/2015	09:54:40	0.015
109	11/19/2015	09:55:40	0.020
110	11/19/2015	09:56:40	0.015
111	11/19/2015	09:57:40	0.029
112	11/19/2015	09:58:40	0.017
113	11/19/2015	09:59:40	0.022
114	11/19/2015	10:00:40	0.028
115	11/19/2015	10:01:40	0.018
116	11/19/2015	10:02:40	0.028
117	11/19/2015	10:03:40	0.017
118	11/19/2015	10:04:40	0.020
119	11/19/2015	10:05:40	0.024
120	11/19/2015	10:06:40	0.033
121	11/19/2015	10:07:40	0.022
122	11/19/2015	10:08:40	0.024
123	11/19/2015	10:09:40	0.020
124	11/19/2015	10:10:40	0.015
125	11/19/2015	10:11:40	0.015
126	11/19/2015	10:12:40	0.031
127	11/19/2015	10:13:40	0.007

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/19/2015	10:14:40	0.044
129	11/19/2015	10:15:40	0.017
130	11/19/2015	10:16:40	0.063
131	11/19/2015	10:17:40	0.021
132	11/19/2015	10:18:40	0.003
133	11/19/2015	10:19:40	0.054
134	11/19/2015	10:20:40	0.014

Test 001

CROSS/DOWN WIND

MW-305

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/09/2015
Instrument S/N	8530130711	Start Time	11:38:26
Instrument #	PA00512	Stop Date	11/09/2015
		Stop Time	16:40:26
		Total Time	0:05:02:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.014 mg/m ³
Max	0.024 mg/m ³
Max Date	11/09/2015
Max Time	15:34:26
Min	0.011 mg/m ³
Min Date	11/09/2015
Min Time	14:10:26
TWA (8 hr)	0.009
TWA Start Date	11/09/2015
TWA Start Time	11:38:26
TWA End Time	16:40:26

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/09/2015
Instrument S/N	8530130711	Start Time	11:38:26
		Stop Date	11/09/2015
		Stop Time	16:40:26
		Total Time	0:05:02:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/09/2015	11:39:26	0.012
2	11/09/2015	11:40:26	0.012
3	11/09/2015	11:41:26	0.014
4	11/09/2015	11:42:26	0.013
5	11/09/2015	11:43:26	0.013
6	11/09/2015	11:44:26	0.013
7	11/09/2015	11:45:26	0.012
8	11/09/2015	11:46:26	0.012
9	11/09/2015	11:47:26	0.012
10	11/09/2015	11:48:26	0.012
11	11/09/2015	11:49:26	0.013
12	11/09/2015	11:50:26	0.012
13	11/09/2015	11:51:26	0.012
14	11/09/2015	11:52:26	0.013
15	11/09/2015	11:53:26	0.012
16	11/09/2015	11:54:26	0.012
17	11/09/2015	11:55:26	0.013
18	11/09/2015	11:56:26	0.013
19	11/09/2015	11:57:26	0.012
20	11/09/2015	11:58:26	0.012
21	11/09/2015	11:59:26	0.012
22	11/09/2015	12:00:26	0.012
23	11/09/2015	12:01:26	0.012
24	11/09/2015	12:02:26	0.012
25	11/09/2015	12:03:26	0.012
26	11/09/2015	12:04:26	0.012
27	11/09/2015	12:05:26	0.012
28	11/09/2015	12:06:26	0.012
29	11/09/2015	12:07:26	0.012
30	11/09/2015	12:08:26	0.012
31	11/09/2015	12:09:26	0.013
32	11/09/2015	12:10:26	0.012
33	11/09/2015	12:11:26	0.012
34	11/09/2015	12:12:26	0.012
35	11/09/2015	12:13:26	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/09/2015	12:14:26	0.013
37	11/09/2015	12:15:26	0.012
38	11/09/2015	12:16:26	0.012
39	11/09/2015	12:17:26	0.013
40	11/09/2015	12:18:26	0.013
41	11/09/2015	12:19:26	0.013
42	11/09/2015	12:20:26	0.013
43	11/09/2015	12:21:26	0.013
44	11/09/2015	12:22:26	0.013
45	11/09/2015	12:23:26	0.013
46	11/09/2015	12:24:26	0.013
47	11/09/2015	12:25:26	0.013
48	11/09/2015	12:26:26	0.013
49	11/09/2015	12:27:26	0.013
50	11/09/2015	12:28:26	0.016
51	11/09/2015	12:29:26	0.013
52	11/09/2015	12:30:26	0.013
53	11/09/2015	12:31:26	0.016
54	11/09/2015	12:32:26	0.016
55	11/09/2015	12:33:26	0.014
56	11/09/2015	12:34:26	0.013
57	11/09/2015	12:35:26	0.013
58	11/09/2015	12:36:26	0.013
59	11/09/2015	12:37:26	0.013
60	11/09/2015	12:38:26	0.013
61	11/09/2015	12:39:26	0.013
62	11/09/2015	12:40:26	0.013
63	11/09/2015	12:41:26	0.014
64	11/09/2015	12:42:26	0.014
65	11/09/2015	12:43:26	0.013
66	11/09/2015	12:44:26	0.019
67	11/09/2015	12:45:26	0.013
68	11/09/2015	12:46:26	0.013
69	11/09/2015	12:47:26	0.014
70	11/09/2015	12:48:26	0.014
71	11/09/2015	12:49:26	0.014
72	11/09/2015	12:50:26	0.014
73	11/09/2015	12:51:26	0.014
74	11/09/2015	12:52:26	0.013
75	11/09/2015	12:53:26	0.013
76	11/09/2015	12:54:26	0.014
77	11/09/2015	12:55:26	0.013
78	11/09/2015	12:56:26	0.013
79	11/09/2015	12:57:26	0.014
80	11/09/2015	12:58:26	0.013
81	11/09/2015	12:59:26	0.014

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/09/2015	13:00:26	0.014
83	11/09/2015	13:01:26	0.014
84	11/09/2015	13:02:26	0.014
85	11/09/2015	13:03:26	0.014
86	11/09/2015	13:04:26	0.020
87	11/09/2015	13:05:26	0.017
88	11/09/2015	13:06:26	0.014
89	11/09/2015	13:07:26	0.013
90	11/09/2015	13:08:26	0.013
91	11/09/2015	13:09:26	0.014
92	11/09/2015	13:10:26	0.013
93	11/09/2015	13:11:26	0.013
94	11/09/2015	13:12:26	0.013
95	11/09/2015	13:13:26	0.013
96	11/09/2015	13:14:26	0.013
97	11/09/2015	13:15:26	0.013
98	11/09/2015	13:16:26	0.013
99	11/09/2015	13:17:26	0.013
100	11/09/2015	13:18:26	0.013
101	11/09/2015	13:19:26	0.013
102	11/09/2015	13:20:26	0.013
103	11/09/2015	13:21:26	0.013
104	11/09/2015	13:22:26	0.013
105	11/09/2015	13:23:26	0.013
106	11/09/2015	13:24:26	0.013
107	11/09/2015	13:25:26	0.013
108	11/09/2015	13:26:26	0.013
109	11/09/2015	13:27:26	0.013
110	11/09/2015	13:28:26	0.013
111	11/09/2015	13:29:26	0.013
112	11/09/2015	13:30:26	0.014
113	11/09/2015	13:31:26	0.014
114	11/09/2015	13:32:26	0.014
115	11/09/2015	13:33:26	0.014
116	11/09/2015	13:34:26	0.013
117	11/09/2015	13:35:26	0.014
118	11/09/2015	13:36:26	0.013
119	11/09/2015	13:37:26	0.012
120	11/09/2015	13:38:26	0.013
121	11/09/2015	13:39:26	0.012
122	11/09/2015	13:40:26	0.012
123	11/09/2015	13:41:26	0.012
124	11/09/2015	13:42:26	0.012
125	11/09/2015	13:43:26	0.012
126	11/09/2015	13:44:26	0.012
127	11/09/2015	13:45:26	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/09/2015	13:46:26	0.013
129	11/09/2015	13:47:26	0.013
130	11/09/2015	13:48:26	0.014
131	11/09/2015	13:49:26	0.013
132	11/09/2015	13:50:26	0.014
133	11/09/2015	13:51:26	0.012
134	11/09/2015	13:52:26	0.012
135	11/09/2015	13:53:26	0.013
136	11/09/2015	13:54:26	0.013
137	11/09/2015	13:55:26	0.012
138	11/09/2015	13:56:26	0.013
139	11/09/2015	13:57:26	0.013
140	11/09/2015	13:58:26	0.012
141	11/09/2015	13:59:26	0.013
142	11/09/2015	14:00:26	0.013
143	11/09/2015	14:01:26	0.019
144	11/09/2015	14:02:26	0.013
145	11/09/2015	14:03:26	0.012
146	11/09/2015	14:04:26	0.012
147	11/09/2015	14:05:26	0.012
148	11/09/2015	14:06:26	0.012
149	11/09/2015	14:07:26	0.014
150	11/09/2015	14:08:26	0.014
151	11/09/2015	14:09:26	0.012
152	11/09/2015	14:10:26	0.011
153	11/09/2015	14:11:26	0.012
154	11/09/2015	14:12:26	0.012
155	11/09/2015	14:13:26	0.011
156	11/09/2015	14:14:26	0.011
157	11/09/2015	14:15:26	0.012
158	11/09/2015	14:16:26	0.012
159	11/09/2015	14:17:26	0.013
160	11/09/2015	14:18:26	0.014
161	11/09/2015	14:19:26	0.012
162	11/09/2015	14:20:26	0.011
163	11/09/2015	14:21:26	0.011
164	11/09/2015	14:22:26	0.012
165	11/09/2015	14:23:26	0.012
166	11/09/2015	14:24:26	0.015
167	11/09/2015	14:25:26	0.013
168	11/09/2015	14:26:26	0.018
169	11/09/2015	14:27:26	0.011
170	11/09/2015	14:28:26	0.011
171	11/09/2015	14:29:26	0.011
172	11/09/2015	14:30:26	0.012
173	11/09/2015	14:31:26	0.015

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
174	11/09/2015	14:32:26	0.013
175	11/09/2015	14:33:26	0.011
176	11/09/2015	14:34:26	0.011
177	11/09/2015	14:35:26	0.011
178	11/09/2015	14:36:26	0.011
179	11/09/2015	14:37:26	0.011
180	11/09/2015	14:38:26	0.011
181	11/09/2015	14:39:26	0.011
182	11/09/2015	14:40:26	0.011
183	11/09/2015	14:41:26	0.012
184	11/09/2015	14:42:26	0.014
185	11/09/2015	14:43:26	0.013
186	11/09/2015	14:44:26	0.013
187	11/09/2015	14:45:26	0.013
188	11/09/2015	14:46:26	0.013
189	11/09/2015	14:47:26	0.014
190	11/09/2015	14:48:26	0.012
191	11/09/2015	14:49:26	0.014
192	11/09/2015	14:50:26	0.012
193	11/09/2015	14:51:26	0.012
194	11/09/2015	14:52:26	0.012
195	11/09/2015	14:53:26	0.014
196	11/09/2015	14:54:26	0.014
197	11/09/2015	14:55:26	0.016
198	11/09/2015	14:56:26	0.015
199	11/09/2015	14:57:26	0.016
200	11/09/2015	14:58:26	0.015
201	11/09/2015	14:59:26	0.014
202	11/09/2015	15:00:26	0.014
203	11/09/2015	15:01:26	0.013
204	11/09/2015	15:02:26	0.014
205	11/09/2015	15:03:26	0.014
206	11/09/2015	15:04:26	0.014
207	11/09/2015	15:05:26	0.013
208	11/09/2015	15:06:26	0.015
209	11/09/2015	15:07:26	0.013
210	11/09/2015	15:08:26	0.014
211	11/09/2015	15:09:26	0.014
212	11/09/2015	15:10:26	0.013
213	11/09/2015	15:11:26	0.013
214	11/09/2015	15:12:26	0.014
215	11/09/2015	15:13:26	0.014
216	11/09/2015	15:14:26	0.013
217	11/09/2015	15:15:26	0.014
218	11/09/2015	15:16:26	0.014
219	11/09/2015	15:17:26	0.013

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
220	11/09/2015	15:18:26	0.013
221	11/09/2015	15:19:26	0.014
222	11/09/2015	15:20:26	0.015
223	11/09/2015	15:21:26	0.015
224	11/09/2015	15:22:26	0.014
225	11/09/2015	15:23:26	0.015
226	11/09/2015	15:24:26	0.015
227	11/09/2015	15:25:26	0.014
228	11/09/2015	15:26:26	0.014
229	11/09/2015	15:27:26	0.014
230	11/09/2015	15:28:26	0.014
231	11/09/2015	15:29:26	0.018
232	11/09/2015	15:30:26	0.016
233	11/09/2015	15:31:26	0.016
234	11/09/2015	15:32:26	0.014
235	11/09/2015	15:33:26	0.015
236	11/09/2015	15:34:26	0.024
237	11/09/2015	15:35:26	0.017
238	11/09/2015	15:36:26	0.015
239	11/09/2015	15:37:26	0.015
240	11/09/2015	15:38:26	0.015
241	11/09/2015	15:39:26	0.016
242	11/09/2015	15:40:26	0.016
243	11/09/2015	15:41:26	0.016
244	11/09/2015	15:42:26	0.015
245	11/09/2015	15:43:26	0.015
246	11/09/2015	15:44:26	0.014
247	11/09/2015	15:45:26	0.017
248	11/09/2015	15:46:26	0.015
249	11/09/2015	15:47:26	0.015
250	11/09/2015	15:48:26	0.015
251	11/09/2015	15:49:26	0.014
252	11/09/2015	15:50:26	0.015
253	11/09/2015	15:51:26	0.014
254	11/09/2015	15:52:26	0.014
255	11/09/2015	15:53:26	0.014
256	11/09/2015	15:54:26	0.014
257	11/09/2015	15:55:26	0.014
258	11/09/2015	15:56:26	0.014
259	11/09/2015	15:57:26	0.014
260	11/09/2015	15:58:26	0.014
261	11/09/2015	15:59:26	0.014
262	11/09/2015	16:00:26	0.015
263	11/09/2015	16:01:26	0.015
264	11/09/2015	16:02:26	0.015
265	11/09/2015	16:03:26	0.015

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
266	11/09/2015	16:04:26	0.015
267	11/09/2015	16:05:26	0.018
268	11/09/2015	16:06:26	0.016
269	11/09/2015	16:07:26	0.015
270	11/09/2015	16:08:26	0.015
271	11/09/2015	16:09:26	0.014
272	11/09/2015	16:10:26	0.014
273	11/09/2015	16:11:26	0.015
274	11/09/2015	16:12:26	0.014
275	11/09/2015	16:13:26	0.015
276	11/09/2015	16:14:26	0.015
277	11/09/2015	16:15:26	0.015
278	11/09/2015	16:16:26	0.015
279	11/09/2015	16:17:26	0.014
280	11/09/2015	16:18:26	0.015
281	11/09/2015	16:19:26	0.014
282	11/09/2015	16:20:26	0.015
283	11/09/2015	16:21:26	0.015
284	11/09/2015	16:22:26	0.015
285	11/09/2015	16:23:26	0.015
286	11/09/2015	16:24:26	0.015
287	11/09/2015	16:25:26	0.016
288	11/09/2015	16:26:26	0.017
289	11/09/2015	16:27:26	0.019
290	11/09/2015	16:28:26	0.015
291	11/09/2015	16:29:26	0.015
292	11/09/2015	16:30:26	0.015
293	11/09/2015	16:31:26	0.016
294	11/09/2015	16:32:26	0.016
295	11/09/2015	16:33:26	0.016
296	11/09/2015	16:34:26	0.016
297	11/09/2015	16:35:26	0.017
298	11/09/2015	16:36:26	0.018
299	11/09/2015	16:37:26	0.019
300	11/09/2015	16:38:26	0.018
301	11/09/2015	16:39:26	0.017
302	11/09/2015	16:40:26	0.018

Test 001

Cross/Up Wind

mw-315

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/10/2015
Instrument S/N	8530122515	Start Time	09:23:53
	FA00313	Stop Date	11/10/2015
		Stop Time	13:48:53
		Total Time	0:04:25:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.029 mg/m ³
Max	0.043 mg/m ³
Max Date	11/10/2015
Max Time	10:49:53
Min	0.023 mg/m ³
Min Date	11/10/2015
Min Time	12:38:53
TWA (8 hr)	0.016
TWA Start Date	11/10/2015
TWA Start Time	09:23:53
TWA End Time	13:48:53

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/10/2015
Instrument S/N	8530122515	Start Time	09:23:53
		Stop Date	11/10/2015
		Stop Time	13:48:53
		Total Time	0:04:25:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/10/2015	09:24:53	0.040
2	11/10/2015	09:25:53	0.036
3	11/10/2015	09:26:53	0.036
4	11/10/2015	09:27:53	0.035
5	11/10/2015	09:28:53	0.036
6	11/10/2015	09:29:53	0.036
7	11/10/2015	09:30:53	0.036
8	11/10/2015	09:31:53	0.038
9	11/10/2015	09:32:53	0.037
10	11/10/2015	09:33:53	0.036
11	11/10/2015	09:34:53	0.036
12	11/10/2015	09:35:53	0.036
13	11/10/2015	09:36:53	0.036
14	11/10/2015	09:37:53	0.034
15	11/10/2015	09:38:53	0.034
16	11/10/2015	09:39:53	0.035
17	11/10/2015	09:40:53	0.037
18	11/10/2015	09:41:53	0.035
19	11/10/2015	09:42:53	0.035
20	11/10/2015	09:43:53	0.034
21	11/10/2015	09:44:53	0.034
22	11/10/2015	09:45:53	0.033
23	11/10/2015	09:46:53	0.033
24	11/10/2015	09:47:53	0.033
25	11/10/2015	09:48:53	0.033
26	11/10/2015	09:49:53	0.033
27	11/10/2015	09:50:53	0.032
28	11/10/2015	09:51:53	0.032
29	11/10/2015	09:52:53	0.032
30	11/10/2015	09:53:53	0.033
31	11/10/2015	09:54:53	0.037
32	11/10/2015	09:55:53	0.035
33	11/10/2015	09:56:53	0.033
34	11/10/2015	09:57:53	0.032
35	11/10/2015	09:58:53	0.031

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/10/2015	09:59:53	0.032
37	11/10/2015	10:00:53	0.032
38	11/10/2015	10:01:53	0.032
39	11/10/2015	10:02:53	0.031
40	11/10/2015	10:03:53	0.031
41	11/10/2015	10:04:53	0.031
42	11/10/2015	10:05:53	0.030
43	11/10/2015	10:06:53	0.031
44	11/10/2015	10:07:53	0.031
45	11/10/2015	10:08:53	0.031
46	11/10/2015	10:09:53	0.031
47	11/10/2015	10:10:53	0.031
48	11/10/2015	10:11:53	0.031
49	11/10/2015	10:12:53	0.031
50	11/10/2015	10:13:53	0.032
51	11/10/2015	10:14:53	0.031
52	11/10/2015	10:15:53	0.033
53	11/10/2015	10:16:53	0.031
54	11/10/2015	10:17:53	0.030
55	11/10/2015	10:18:53	0.030
56	11/10/2015	10:19:53	0.031
57	11/10/2015	10:20:53	0.031
58	11/10/2015	10:21:53	0.031
59	11/10/2015	10:22:53	0.033
60	11/10/2015	10:23:53	0.035
61	11/10/2015	10:24:53	0.031
62	11/10/2015	10:25:53	0.031
63	11/10/2015	10:26:53	0.030
64	11/10/2015	10:27:53	0.031
65	11/10/2015	10:28:53	0.030
66	11/10/2015	10:29:53	0.030
67	11/10/2015	10:30:53	0.031
68	11/10/2015	10:31:53	0.029
69	11/10/2015	10:32:53	0.029
70	11/10/2015	10:33:53	0.030
71	11/10/2015	10:34:53	0.031
72	11/10/2015	10:35:53	0.030
73	11/10/2015	10:36:53	0.030
74	11/10/2015	10:37:53	0.029
75	11/10/2015	10:38:53	0.029
76	11/10/2015	10:39:53	0.029
77	11/10/2015	10:40:53	0.029
78	11/10/2015	10:41:53	0.031
79	11/10/2015	10:42:53	0.030
80	11/10/2015	10:43:53	0.029
81	11/10/2015	10:44:53	0.028

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
82	11/10/2015	10:45:53	0.028
83	11/10/2015	10:46:53	0.029
84	11/10/2015	10:47:53	0.030
85	11/10/2015	10:48:53	0.029
86	11/10/2015	10:49:53	0.043
87	11/10/2015	10:50:53	0.031
88	11/10/2015	10:51:53	0.029
89	11/10/2015	10:52:53	0.029
90	11/10/2015	10:53:53	0.028
91	11/10/2015	10:54:53	0.028
92	11/10/2015	10:55:53	0.028
93	11/10/2015	10:56:53	0.029
94	11/10/2015	10:57:53	0.028
95	11/10/2015	10:58:53	0.028
96	11/10/2015	10:59:53	0.031
97	11/10/2015	11:00:53	0.028
98	11/10/2015	11:01:53	0.028
99	11/10/2015	11:02:53	0.031
100	11/10/2015	11:03:53	0.034
101	11/10/2015	11:04:53	0.028
102	11/10/2015	11:05:53	0.027
103	11/10/2015	11:06:53	0.027
104	11/10/2015	11:07:53	0.028
105	11/10/2015	11:08:53	0.028
106	11/10/2015	11:09:53	0.027
107	11/10/2015	11:10:53	0.027
108	11/10/2015	11:11:53	0.027
109	11/10/2015	11:12:53	0.027
110	11/10/2015	11:13:53	0.028
111	11/10/2015	11:14:53	0.028
112	11/10/2015	11:15:53	0.027
113	11/10/2015	11:16:53	0.027
114	11/10/2015	11:17:53	0.026
115	11/10/2015	11:18:53	0.027
116	11/10/2015	11:19:53	0.027
117	11/10/2015	11:20:53	0.029
118	11/10/2015	11:21:53	0.031
119	11/10/2015	11:22:53	0.031
120	11/10/2015	11:23:53	0.027
121	11/10/2015	11:24:53	0.028
122	11/10/2015	11:25:53	0.028
123	11/10/2015	11:26:53	0.028
124	11/10/2015	11:27:53	0.027
125	11/10/2015	11:28:53	0.027
126	11/10/2015	11:29:53	0.027
127	11/10/2015	11:30:53	0.026

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/10/2015	11:31:53	0.027
129	11/10/2015	11:32:53	0.027
130	11/10/2015	11:33:53	0.026
131	11/10/2015	11:34:53	0.027
132	11/10/2015	11:35:53	0.027
133	11/10/2015	11:36:53	0.027
134	11/10/2015	11:37:53	0.027
135	11/10/2015	11:38:53	0.028
136	11/10/2015	11:39:53	0.027
137	11/10/2015	11:40:53	0.027
138	11/10/2015	11:41:53	0.027
139	11/10/2015	11:42:53	0.028
140	11/10/2015	11:43:53	0.027
141	11/10/2015	11:44:53	0.028
142	11/10/2015	11:45:53	0.027
143	11/10/2015	11:46:53	0.028
144	11/10/2015	11:47:53	0.027
145	11/10/2015	11:48:53	0.027
146	11/10/2015	11:49:53	0.027
147	11/10/2015	11:50:53	0.032
148	11/10/2015	11:51:53	0.033
149	11/10/2015	11:52:53	0.027
150	11/10/2015	11:53:53	0.027
151	11/10/2015	11:54:53	0.026
152	11/10/2015	11:55:53	0.026
153	11/10/2015	11:56:53	0.027
154	11/10/2015	11:57:53	0.027
155	11/10/2015	11:58:53	0.028
156	11/10/2015	11:59:53	0.027
157	11/10/2015	12:00:53	0.027
158	11/10/2015	12:01:53	0.026
159	11/10/2015	12:02:53	0.026
160	11/10/2015	12:03:53	0.025
161	11/10/2015	12:04:53	0.025
162	11/10/2015	12:05:53	0.025
163	11/10/2015	12:06:53	0.025
164	11/10/2015	12:07:53	0.024
165	11/10/2015	12:08:53	0.026
166	11/10/2015	12:09:53	0.026
167	11/10/2015	12:10:53	0.025
168	11/10/2015	12:11:53	0.025
169	11/10/2015	12:12:53	0.025
170	11/10/2015	12:13:53	0.025
171	11/10/2015	12:14:53	0.025
172	11/10/2015	12:15:53	0.028
173	11/10/2015	12:16:53	0.026

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
174	11/10/2015	12:17:53	0.024
175	11/10/2015	12:18:53	0.025
176	11/10/2015	12:19:53	0.026
177	11/10/2015	12:20:53	0.026
178	11/10/2015	12:21:53	0.025
179	11/10/2015	12:22:53	0.026
180	11/10/2015	12:23:53	0.025
181	11/10/2015	12:24:53	0.025
182	11/10/2015	12:25:53	0.025
183	11/10/2015	12:26:53	0.024
184	11/10/2015	12:27:53	0.024
185	11/10/2015	12:28:53	0.024
186	11/10/2015	12:29:53	0.024
187	11/10/2015	12:30:53	0.024
188	11/10/2015	12:31:53	0.024
189	11/10/2015	12:32:53	0.025
190	11/10/2015	12:33:53	0.024
191	11/10/2015	12:34:53	0.024
192	11/10/2015	12:35:53	0.024
193	11/10/2015	12:36:53	0.024
194	11/10/2015	12:37:53	0.024
195	11/10/2015	12:38:53	0.023
196	11/10/2015	12:39:53	0.024
197	11/10/2015	12:40:53	0.024
198	11/10/2015	12:41:53	0.024
199	11/10/2015	12:42:53	0.025
200	11/10/2015	12:43:53	0.024
201	11/10/2015	12:44:53	0.024
202	11/10/2015	12:45:53	0.026
203	11/10/2015	12:46:53	0.025
204	11/10/2015	12:47:53	0.025
205	11/10/2015	12:48:53	0.024
206	11/10/2015	12:49:53	0.023
207	11/10/2015	12:50:53	0.024
208	11/10/2015	12:51:53	0.023
209	11/10/2015	12:52:53	0.023
210	11/10/2015	12:53:53	0.023
211	11/10/2015	12:54:53	0.024
212	11/10/2015	12:55:53	0.024
213	11/10/2015	12:56:53	0.025
214	11/10/2015	12:57:53	0.025
215	11/10/2015	12:58:53	0.025
216	11/10/2015	12:59:53	0.024
217	11/10/2015	13:00:53	0.023
218	11/10/2015	13:01:53	0.024
219	11/10/2015	13:02:53	0.024

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
220	11/10/2015	13:03:53	0.025
221	11/10/2015	13:04:53	0.026
222	11/10/2015	13:05:53	0.024
223	11/10/2015	13:06:53	0.023
224	11/10/2015	13:07:53	0.023
225	11/10/2015	13:08:53	0.024
226	11/10/2015	13:09:53	0.027
227	11/10/2015	13:10:53	0.026
228	11/10/2015	13:11:53	0.023
229	11/10/2015	13:12:53	0.024
230	11/10/2015	13:13:53	0.023
231	11/10/2015	13:14:53	0.023
232	11/10/2015	13:15:53	0.023
233	11/10/2015	13:16:53	0.024
234	11/10/2015	13:17:53	0.024
235	11/10/2015	13:18:53	0.024
236	11/10/2015	13:19:53	0.023
237	11/10/2015	13:20:53	0.025
238	11/10/2015	13:21:53	0.026
239	11/10/2015	13:22:53	0.026
240	11/10/2015	13:23:53	0.027
241	11/10/2015	13:24:53	0.028
242	11/10/2015	13:25:53	0.026
243	11/10/2015	13:26:53	0.027
244	11/10/2015	13:27:53	0.028
245	11/10/2015	13:28:53	0.029
246	11/10/2015	13:29:53	0.029
247	11/10/2015	13:30:53	0.030
248	11/10/2015	13:31:53	0.027
249	11/10/2015	13:32:53	0.028
250	11/10/2015	13:33:53	0.033
251	11/10/2015	13:34:53	0.033
252	11/10/2015	13:35:53	0.032
253	11/10/2015	13:36:53	0.035
254	11/10/2015	13:37:53	0.041
255	11/10/2015	13:38:53	0.032
256	11/10/2015	13:39:53	0.033
257	11/10/2015	13:40:53	0.038
258	11/10/2015	13:41:53	0.035
259	11/10/2015	13:42:53	0.036
260	11/10/2015	13:43:53	0.035
261	11/10/2015	13:44:53	0.036
262	11/10/2015	13:45:53	0.034
263	11/10/2015	13:46:53	0.029
264	11/10/2015	13:47:53	0.030
265	11/10/2015	13:48:53	0.036

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³

Test 002

UPWIND
MW-33S

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530122515	Start Time	08:33:09
	PIA 00313	Stop Date	11/12/2015
		Stop Time	10:04:09
		Total Time	0:01:31:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.008 mg/m ³
Max	0.012 mg/m ³
Max Date	11/12/2015
Max Time	08:47:09
Min	0.006 mg/m ³
Min Date	11/12/2015
Min Time	09:44:09
TWA (8 hr)	0.002
TWA Start Date	11/12/2015
TWA Start Time	08:33:09
TWA End Time	10:04:09

Test 002

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530122515	Start Time	08:33:09
		Stop Date	11/12/2015
		Stop Time	10:04:09
		Total Time	0:01:31:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/12/2015	08:34:09	0.010
2	11/12/2015	08:35:09	0.009
3	11/12/2015	08:36:09	0.011
4	11/12/2015	08:37:09	0.009
5	11/12/2015	08:38:09	0.010
6	11/12/2015	08:39:09	0.010
7	11/12/2015	08:40:09	0.009
8	11/12/2015	08:41:09	0.009
9	11/12/2015	08:42:09	0.009
10	11/12/2015	08:43:09	0.010
11	11/12/2015	08:44:09	0.009
12	11/12/2015	08:45:09	0.009
13	11/12/2015	08:46:09	0.010
14	11/12/2015	08:47:09	0.012
15	11/12/2015	08:48:09	0.010
16	11/12/2015	08:49:09	0.009
17	11/12/2015	08:50:09	0.009
18	11/12/2015	08:51:09	0.009
19	11/12/2015	08:52:09	0.009
20	11/12/2015	08:53:09	0.010
21	11/12/2015	08:54:09	0.009
22	11/12/2015	08:55:09	0.010
23	11/12/2015	08:56:09	0.010
24	11/12/2015	08:57:09	0.009
25	11/12/2015	08:58:09	0.009
26	11/12/2015	08:59:09	0.009
27	11/12/2015	09:00:09	0.010
28	11/12/2015	09:01:09	0.010
29	11/12/2015	09:02:09	0.010
30	11/12/2015	09:03:09	0.010
31	11/12/2015	09:04:09	0.011
32	11/12/2015	09:05:09	0.011
33	11/12/2015	09:06:09	0.012
34	11/12/2015	09:07:09	0.012
35	11/12/2015	09:08:09	0.010

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/12/2015	09:09:09	0.011
37	11/12/2015	09:10:09	0.010
38	11/12/2015	09:11:09	0.010
39	11/12/2015	09:12:09	0.009
40	11/12/2015	09:13:09	0.009
41	11/12/2015	09:14:09	0.009
42	11/12/2015	09:15:09	0.009
43	11/12/2015	09:16:09	0.008
44	11/12/2015	09:17:09	0.008
45	11/12/2015	09:18:09	0.008
46	11/12/2015	09:19:09	0.008
47	11/12/2015	09:20:09	0.008
48	11/12/2015	09:21:09	0.008
49	11/12/2015	09:22:09	0.008
50	11/12/2015	09:23:09	0.008
51	11/12/2015	09:24:09	0.008
52	11/12/2015	09:25:09	0.007
53	11/12/2015	09:26:09	0.007
54	11/12/2015	09:27:09	0.007
55	11/12/2015	09:28:09	0.007
56	11/12/2015	09:29:09	0.007
57	11/12/2015	09:30:09	0.007
58	11/12/2015	09:31:09	0.007
59	11/12/2015	09:32:09	0.008
60	11/12/2015	09:33:09	0.007
61	11/12/2015	09:34:09	0.007
62	11/12/2015	09:35:09	0.007
63	11/12/2015	09:36:09	0.007
64	11/12/2015	09:37:09	0.009
65	11/12/2015	09:38:09	0.010
66	11/12/2015	09:39:09	0.007
67	11/12/2015	09:40:09	0.007
68	11/12/2015	09:41:09	0.007
69	11/12/2015	09:42:09	0.008
70	11/12/2015	09:43:09	0.007
71	11/12/2015	09:44:09	0.006
72	11/12/2015	09:45:09	0.007
73	11/12/2015	09:46:09	0.007
74	11/12/2015	09:47:09	0.008
75	11/12/2015	09:48:09	0.007
76	11/12/2015	09:49:09	0.007
77	11/12/2015	09:50:09	0.007
78	11/12/2015	09:51:09	0.008
79	11/12/2015	09:52:09	0.007
80	11/12/2015	09:53:09	0.007
81	11/12/2015	09:54:09	0.007

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/12/2015	09:55:09	0.006
83	11/12/2015	09:56:09	0.007
84	11/12/2015	09:57:09	0.006
85	11/12/2015	09:58:09	0.007
86	11/12/2015	09:59:09	0.007
87	11/12/2015	10:00:09	0.006
88	11/12/2015	10:01:09	0.006
89	11/12/2015	10:02:09	0.006
90	11/12/2015	10:03:09	0.007
91	11/12/2015	10:04:09	0.007

Test 003

Upwind
mw-335

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530122515	Start Time	11:07:01
		Stop Date	11/12/2015
		Stop Time	12:37:01
		Total Time	0:01:30:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.009 mg/m ³
Max	0.011 mg/m ³
Max Date	11/12/2015
Max Time	12:24:01
Min	0.008 mg/m ³
Min Date	11/12/2015
Min Time	11:09:01
TWA (8 hr)	0.002
TWA Start Date	11/12/2015
TWA Start Time	11:07:01
TWA End Time	12:37:01

Test 003

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530122515	Start Time	11:07:01
		Stop Date	11/12/2015
		Stop Time	12:37:01
		Total Time	0:01:30:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/12/2015	11:08:01	0.009
2	11/12/2015	11:09:01	0.008
3	11/12/2015	11:10:01	0.009
4	11/12/2015	11:11:01	0.009
5	11/12/2015	11:12:01	0.008
6	11/12/2015	11:13:01	0.008
7	11/12/2015	11:14:01	0.008
8	11/12/2015	11:15:01	0.008
9	11/12/2015	11:16:01	0.008
10	11/12/2015	11:17:01	0.008
11	11/12/2015	11:18:01	0.008
12	11/12/2015	11:19:01	0.009
13	11/12/2015	11:20:01	0.008
14	11/12/2015	11:21:01	0.008
15	11/12/2015	11:22:01	0.008
16	11/12/2015	11:23:01	0.008
17	11/12/2015	11:24:01	0.009
18	11/12/2015	11:25:01	0.009
19	11/12/2015	11:26:01	0.009
20	11/12/2015	11:27:01	0.008
21	11/12/2015	11:28:01	0.009
22	11/12/2015	11:29:01	0.009
23	11/12/2015	11:30:01	0.009
24	11/12/2015	11:31:01	0.009
25	11/12/2015	11:32:01	0.009
26	11/12/2015	11:33:01	0.009
27	11/12/2015	11:34:01	0.009
28	11/12/2015	11:35:01	0.009
29	11/12/2015	11:36:01	0.009
30	11/12/2015	11:37:01	0.009
31	11/12/2015	11:38:01	0.009
32	11/12/2015	11:39:01	0.009
33	11/12/2015	11:40:01	0.009
34	11/12/2015	11:41:01	0.009
35	11/12/2015	11:42:01	0.009

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
36	11/12/2015	11:43:01	0.009
37	11/12/2015	11:44:01	0.009
38	11/12/2015	11:45:01	0.009
39	11/12/2015	11:46:01	0.009
40	11/12/2015	11:47:01	0.009
41	11/12/2015	11:48:01	0.009
42	11/12/2015	11:49:01	0.009
43	11/12/2015	11:50:01	0.009
44	11/12/2015	11:51:01	0.009
45	11/12/2015	11:52:01	0.009
46	11/12/2015	11:53:01	0.009
47	11/12/2015	11:54:01	0.009
48	11/12/2015	11:55:01	0.010
49	11/12/2015	11:56:01	0.009
50	11/12/2015	11:57:01	0.009
51	11/12/2015	11:58:01	0.009
52	11/12/2015	11:59:01	0.009
53	11/12/2015	12:00:01	0.009
54	11/12/2015	12:01:01	0.010
55	11/12/2015	12:02:01	0.010
56	11/12/2015	12:03:01	0.010
57	11/12/2015	12:04:01	0.010
58	11/12/2015	12:05:01	0.010
59	11/12/2015	12:06:01	0.010
60	11/12/2015	12:07:01	0.009
61	11/12/2015	12:08:01	0.010
62	11/12/2015	12:09:01	0.010
63	11/12/2015	12:10:01	0.010
64	11/12/2015	12:11:01	0.010
65	11/12/2015	12:12:01	0.010
66	11/12/2015	12:13:01	0.010
67	11/12/2015	12:14:01	0.010
68	11/12/2015	12:15:01	0.010
69	11/12/2015	12:16:01	0.010
70	11/12/2015	12:17:01	0.010
71	11/12/2015	12:18:01	0.010
72	11/12/2015	12:19:01	0.010
73	11/12/2015	12:20:01	0.010
74	11/12/2015	12:21:01	0.010
75	11/12/2015	12:22:01	0.010
76	11/12/2015	12:23:01	0.010
77	11/12/2015	12:24:01	0.011
78	11/12/2015	12:25:01	0.011
79	11/12/2015	12:26:01	0.010
80	11/12/2015	12:27:01	0.010
81	11/12/2015	12:28:01	0.010

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/12/2015	12:29:01	0.010
83	11/12/2015	12:30:01	0.010
84	11/12/2015	12:31:01	0.011
85	11/12/2015	12:32:01	0.011
86	11/12/2015	12:33:01	0.011
87	11/12/2015	12:34:01	0.011
88	11/12/2015	12:35:01	0.011
89	11/12/2015	12:36:01	0.011
90	11/12/2015	12:37:01	0.011

Test 004

Upwind
mw-335

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530122515	Start Time	14:06:10
		Stop Date	11/12/2015
		Stop Time	15:23:10
		Total Time	0:01:17:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.012 mg/m ³
Max	0.017 mg/m ³
Max Date	11/12/2015
Max Time	14:08:10
Min	0.004 mg/m ³
Min Date	11/12/2015
Min Time	15:09:10
TWA (8 hr)	0.002
TWA Start Date	11/12/2015
TWA Start Time	14:06:10
TWA End Time	15:23:10

Test 004

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/12/2015
Instrument S/N	8530122515	Start Time	14:06:10
		Stop Date	11/12/2015
		Stop Time	15:23:10
		Total Time	0:01:17:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/12/2015	14:07:10	0.015
2	11/12/2015	14:08:10	0.017
3	11/12/2015	14:09:10	0.016
4	11/12/2015	14:10:10	0.016
5	11/12/2015	14:11:10	0.017
6	11/12/2015	14:12:10	0.017
7	11/12/2015	14:13:10	0.017
8	11/12/2015	14:14:10	0.017
9	11/12/2015	14:15:10	0.016
10	11/12/2015	14:16:10	0.016
11	11/12/2015	14:17:10	0.016
12	11/12/2015	14:18:10	0.016
13	11/12/2015	14:19:10	0.016
14	11/12/2015	14:20:10	0.017
15	11/12/2015	14:21:10	0.016
16	11/12/2015	14:22:10	0.016
17	11/12/2015	14:23:10	0.017
18	11/12/2015	14:24:10	0.016
19	11/12/2015	14:25:10	0.016
20	11/12/2015	14:26:10	0.016
21	11/12/2015	14:27:10	0.016
22	11/12/2015	14:28:10	0.016
23	11/12/2015	14:29:10	0.016
24	11/12/2015	14:30:10	0.016
25	11/12/2015	14:31:10	0.016
26	11/12/2015	14:32:10	0.016
27	11/12/2015	14:33:10	0.016
28	11/12/2015	14:34:10	0.016
29	11/12/2015	14:35:10	0.016
30	11/12/2015	14:36:10	0.016
31	11/12/2015	14:37:10	0.015
32	11/12/2015	14:38:10	0.015
33	11/12/2015	14:39:10	0.015
34	11/12/2015	14:40:10	0.015
35	11/12/2015	14:41:10	0.016

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/12/2015	14:42:10	0.016
37	11/12/2015	14:43:10	0.016
38	11/12/2015	14:44:10	0.015
39	11/12/2015	14:45:10	0.015
40	11/12/2015	14:46:10	0.016
41	11/12/2015	14:47:10	0.016
42	11/12/2015	14:48:10	0.016
43	11/12/2015	14:49:10	0.016
44	11/12/2015	14:50:10	0.014
45	11/12/2015	14:51:10	0.014
46	11/12/2015	14:52:10	0.014
47	11/12/2015	14:53:10	0.011
48	11/12/2015	14:54:10	0.012
49	11/12/2015	14:55:10	0.012
50	11/12/2015	14:56:10	0.010
51	11/12/2015	14:57:10	0.010
52	11/12/2015	14:58:10	0.010
53	11/12/2015	14:59:10	0.009
54	11/12/2015	15:00:10	0.007
55	11/12/2015	15:01:10	0.006
56	11/12/2015	15:02:10	0.006
57	11/12/2015	15:03:10	0.005
58	11/12/2015	15:04:10	0.005
59	11/12/2015	15:05:10	0.005
60	11/12/2015	15:06:10	0.005
61	11/12/2015	15:07:10	0.005
62	11/12/2015	15:08:10	0.005
63	11/12/2015	15:09:10	0.004
64	11/12/2015	15:10:10	0.004
65	11/12/2015	15:11:10	0.004
66	11/12/2015	15:12:10	0.004
67	11/12/2015	15:13:10	0.004
68	11/12/2015	15:14:10	0.004
69	11/12/2015	15:15:10	0.004
70	11/12/2015	15:16:10	0.005
71	11/12/2015	15:17:10	0.006
72	11/12/2015	15:18:10	0.006
73	11/12/2015	15:19:10	0.006
74	11/12/2015	15:20:10	0.005
75	11/12/2015	15:21:10	0.005
76	11/12/2015	15:22:10	0.005
77	11/12/2015	15:23:10	0.005

Test 001

Upwind
mw-345

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/13/2015
Instrument S/N	8530130711	Start Time	11:15:09
	PA00572	Stop Date	11/13/2015
		Stop Time	12:57:09
		Total Time	0:01:42:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.015 mg/m ³
Max	0.024 mg/m ³
Max Date	11/13/2015
Max Time	11:16:09
Min	0.010 mg/m ³
Min Date	11/13/2015
Min Time	12:38:09
TWA (8 hr)	0.003
TWA Start Date	11/13/2015
TWA Start Time	11:15:09
TWA End Time	12:57:09

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/13/2015
Instrument S/N	8530130711	Start Time	11:15:09
		Stop Date	11/13/2015
		Stop Time	12:57:09
		Total Time	0:01:42:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/13/2015	11:16:09	0.024
2	11/13/2015	11:17:09	0.021
3	11/13/2015	11:18:09	0.020
4	11/13/2015	11:19:09	0.021
5	11/13/2015	11:20:09	0.021
6	11/13/2015	11:21:09	0.020
7	11/13/2015	11:22:09	0.020
8	11/13/2015	11:23:09	0.021
9	11/13/2015	11:24:09	0.021
10	11/13/2015	11:25:09	0.021
11	11/13/2015	11:26:09	0.021
12	11/13/2015	11:27:09	0.021
13	11/13/2015	11:28:09	0.020
14	11/13/2015	11:29:09	0.020
15	11/13/2015	11:30:09	0.020
16	11/13/2015	11:31:09	0.020
17	11/13/2015	11:32:09	0.020
18	11/13/2015	11:33:09	0.020
19	11/13/2015	11:34:09	0.020
20	11/13/2015	11:35:09	0.020
21	11/13/2015	11:36:09	0.019
22	11/13/2015	11:37:09	0.019
23	11/13/2015	11:38:09	0.018
24	11/13/2015	11:39:09	0.018
25	11/13/2015	11:40:09	0.018
26	11/13/2015	11:41:09	0.017
27	11/13/2015	11:42:09	0.017
28	11/13/2015	11:43:09	0.017
29	11/13/2015	11:44:09	0.017
30	11/13/2015	11:45:09	0.018
31	11/13/2015	11:46:09	0.017
32	11/13/2015	11:47:09	0.017
33	11/13/2015	11:48:09	0.017
34	11/13/2015	11:49:09	0.017
35	11/13/2015	11:50:09	0.016

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/13/2015	11:51:09	0.016
37	11/13/2015	11:52:09	0.016
38	11/13/2015	11:53:09	0.017
39	11/13/2015	11:54:09	0.016
40	11/13/2015	11:55:09	0.016
41	11/13/2015	11:56:09	0.018
42	11/13/2015	11:57:09	0.016
43	11/13/2015	11:58:09	0.017
44	11/13/2015	11:59:09	0.016
45	11/13/2015	12:00:09	0.016
46	11/13/2015	12:01:09	0.016
47	11/13/2015	12:02:09	0.016
48	11/13/2015	12:03:09	0.015
49	11/13/2015	12:04:09	0.014
50	11/13/2015	12:05:09	0.014
51	11/13/2015	12:06:09	0.013
52	11/13/2015	12:07:09	0.013
53	11/13/2015	12:08:09	0.013
54	11/13/2015	12:09:09	0.012
55	11/13/2015	12:10:09	0.013
56	11/13/2015	12:11:09	0.013
57	11/13/2015	12:12:09	0.013
58	11/13/2015	12:13:09	0.013
59	11/13/2015	12:14:09	0.012
60	11/13/2015	12:15:09	0.012
61	11/13/2015	12:16:09	0.012
62	11/13/2015	12:17:09	0.012
63	11/13/2015	12:18:09	0.012
64	11/13/2015	12:19:09	0.012
65	11/13/2015	12:20:09	0.012
66	11/13/2015	12:21:09	0.013
67	11/13/2015	12:22:09	0.013
68	11/13/2015	12:23:09	0.013
69	11/13/2015	12:24:09	0.013
70	11/13/2015	12:25:09	0.012
71	11/13/2015	12:26:09	0.012
72	11/13/2015	12:27:09	0.012
73	11/13/2015	12:28:09	0.011
74	11/13/2015	12:29:09	0.012
75	11/13/2015	12:30:09	0.012
76	11/13/2015	12:31:09	0.011
77	11/13/2015	12:32:09	0.011
78	11/13/2015	12:33:09	0.011
79	11/13/2015	12:34:09	0.011
80	11/13/2015	12:35:09	0.011
81	11/13/2015	12:36:09	0.011

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/13/2015	12:37:09	0.011
83	11/13/2015	12:38:09	0.010
84	11/13/2015	12:39:09	0.010
85	11/13/2015	12:40:09	0.010
86	11/13/2015	12:41:09	0.010
87	11/13/2015	12:42:09	0.010
88	11/13/2015	12:43:09	0.011
89	11/13/2015	12:44:09	0.010
90	11/13/2015	12:45:09	0.010
91	11/13/2015	12:46:09	0.010
92	11/13/2015	12:47:09	0.010
93	11/13/2015	12:48:09	0.010
94	11/13/2015	12:49:09	0.011
95	11/13/2015	12:50:09	0.011
96	11/13/2015	12:51:09	0.010
97	11/13/2015	12:52:09	0.010
98	11/13/2015	12:53:09	0.010
99	11/13/2015	12:54:09	0.010
100	11/13/2015	12:55:09	0.010
101	11/13/2015	12:56:09	0.010
102	11/13/2015	12:57:09	0.010

Test 002

Upwind
mw-345

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/16/2015
Instrument S/N	8530122515	Start Time	13:17:52
	PA00313	Stop Date	11/16/2015
		Stop Time	15:44:52
		Total Time	0:02:27:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.021 mg/m ³
Max	0.052 mg/m ³
Max Date	11/16/2015
Max Time	13:53:52
Min	0.010 mg/m ³
Min Date	11/16/2015
Min Time	14:40:52
TWA (8 hr)	0.006
TWA Start Date	11/16/2015
TWA Start Time	13:17:52
TWA End Time	15:44:52

Test 002

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/16/2015
Instrument S/N	8530122515	Start Time	13:17:52
		Stop Date	11/16/2015
		Stop Time	15:44:52
		Total Time	0:02:27:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/16/2015	13:18:52	0.043
2	11/16/2015	13:19:52	0.039
3	11/16/2015	13:20:52	0.040
4	11/16/2015	13:21:52	0.038
5	11/16/2015	13:22:52	0.037
6	11/16/2015	13:23:52	0.036
7	11/16/2015	13:24:52	0.038
8	11/16/2015	13:25:52	0.038
9	11/16/2015	13:26:52	0.038
10	11/16/2015	13:27:52	0.037
11	11/16/2015	13:28:52	0.035
12	11/16/2015	13:29:52	0.036
13	11/16/2015	13:30:52	0.037
14	11/16/2015	13:31:52	0.034
15	11/16/2015	13:32:52	0.034
16	11/16/2015	13:33:52	0.034
17	11/16/2015	13:34:52	0.034
18	11/16/2015	13:35:52	0.033
19	11/16/2015	13:36:52	0.033
20	11/16/2015	13:37:52	0.044
21	11/16/2015	13:38:52	0.033
22	11/16/2015	13:39:52	0.038
23	11/16/2015	13:40:52	0.035
24	11/16/2015	13:41:52	0.033
25	11/16/2015	13:42:52	0.034
26	11/16/2015	13:43:52	0.035
27	11/16/2015	13:44:52	0.034
28	11/16/2015	13:45:52	0.038
29	11/16/2015	13:46:52	0.045
30	11/16/2015	13:47:52	0.039
31	11/16/2015	13:48:52	0.037
32	11/16/2015	13:49:52	0.033
33	11/16/2015	13:50:52	0.032
34	11/16/2015	13:51:52	0.032
35	11/16/2015	13:52:52	0.033

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/16/2015	13:53:52	0.052
37	11/16/2015	13:54:52	0.037
38	11/16/2015	13:55:52	0.032
39	11/16/2015	13:56:52	0.030
40	11/16/2015	13:57:52	0.030
41	11/16/2015	13:58:52	0.030
42	11/16/2015	13:59:52	0.030
43	11/16/2015	14:00:52	0.032
44	11/16/2015	14:01:52	0.030
45	11/16/2015	14:02:52	0.028
46	11/16/2015	14:03:52	0.030
47	11/16/2015	14:04:52	0.032
48	11/16/2015	14:05:52	0.031
49	11/16/2015	14:06:52	0.031
50	11/16/2015	14:07:52	0.029
51	11/16/2015	14:08:52	0.029
52	11/16/2015	14:09:52	0.028
53	11/16/2015	14:10:52	0.029
54	11/16/2015	14:11:52	0.030
55	11/16/2015	14:12:52	0.029
56	11/16/2015	14:13:52	0.027
57	11/16/2015	14:14:52	0.024
58	11/16/2015	14:15:52	0.023
59	11/16/2015	14:16:52	0.023
60	11/16/2015	14:17:52	0.026
61	11/16/2015	14:18:52	0.022
62	11/16/2015	14:19:52	0.022
63	11/16/2015	14:20:52	0.021
64	11/16/2015	14:21:52	0.020
65	11/16/2015	14:22:52	0.021
66	11/16/2015	14:23:52	0.019
67	11/16/2015	14:24:52	0.013
68	11/16/2015	14:25:52	0.014
69	11/16/2015	14:26:52	0.013
70	11/16/2015	14:27:52	0.013
71	11/16/2015	14:28:52	0.013
72	11/16/2015	14:29:52	0.011
73	11/16/2015	14:30:52	0.011
74	11/16/2015	14:31:52	0.011
75	11/16/2015	14:32:52	0.011
76	11/16/2015	14:33:52	0.011
77	11/16/2015	14:34:52	0.012
78	11/16/2015	14:35:52	0.011
79	11/16/2015	14:36:52	0.011
80	11/16/2015	14:37:52	0.013
81	11/16/2015	14:38:52	0.013

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/16/2015	14:39:52	0.011
83	11/16/2015	14:40:52	0.010
84	11/16/2015	14:41:52	0.011
85	11/16/2015	14:42:52	0.010
86	11/16/2015	14:43:52	0.012
87	11/16/2015	14:44:52	0.011
88	11/16/2015	14:45:52	0.010
89	11/16/2015	14:46:52	0.011
90	11/16/2015	14:47:52	0.011
91	11/16/2015	14:48:52	0.011
92	11/16/2015	14:49:52	0.013
93	11/16/2015	14:50:52	0.013
94	11/16/2015	14:51:52	0.013
95	11/16/2015	14:52:52	0.013
96	11/16/2015	14:53:52	0.014
97	11/16/2015	14:54:52	0.013
98	11/16/2015	14:55:52	0.012
99	11/16/2015	14:56:52	0.012
100	11/16/2015	14:57:52	0.013
101	11/16/2015	14:58:52	0.012
102	11/16/2015	14:59:52	0.012
103	11/16/2015	15:00:52	0.011
104	11/16/2015	15:01:52	0.011
105	11/16/2015	15:02:52	0.011
106	11/16/2015	15:03:52	0.011
107	11/16/2015	15:04:52	0.010
108	11/16/2015	15:05:52	0.011
109	11/16/2015	15:06:52	0.010
110	11/16/2015	15:07:52	0.010
111	11/16/2015	15:08:52	0.011
112	11/16/2015	15:09:52	0.013
113	11/16/2015	15:10:52	0.011
114	11/16/2015	15:11:52	0.014
115	11/16/2015	15:12:52	0.011
116	11/16/2015	15:13:52	0.011
117	11/16/2015	15:14:52	0.013
118	11/16/2015	15:15:52	0.010
119	11/16/2015	15:16:52	0.011
120	11/16/2015	15:17:52	0.010
121	11/16/2015	15:18:52	0.010
122	11/16/2015	15:19:52	0.011
123	11/16/2015	15:20:52	0.012
124	11/16/2015	15:21:52	0.011
125	11/16/2015	15:22:52	0.011
126	11/16/2015	15:23:52	0.012
127	11/16/2015	15:24:52	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/16/2015	15:25:52	0.012
129	11/16/2015	15:26:52	0.013
130	11/16/2015	15:27:52	0.012
131	11/16/2015	15:28:52	0.012
132	11/16/2015	15:29:52	0.013
133	11/16/2015	15:30:52	0.013
134	11/16/2015	15:31:52	0.013
135	11/16/2015	15:32:52	0.013
136	11/16/2015	15:33:52	0.013
137	11/16/2015	15:34:52	0.013
138	11/16/2015	15:35:52	0.013
139	11/16/2015	15:36:52	0.013
140	11/16/2015	15:37:52	0.012
141	11/16/2015	15:38:52	0.011
142	11/16/2015	15:39:52	0.011
143	11/16/2015	15:40:52	0.012
144	11/16/2015	15:41:52	0.011
145	11/16/2015	15:42:52	0.012
146	11/16/2015	15:43:52	0.012
147	11/16/2015	15:44:52	0.011

Test 003

Upwind MW-36S

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/17/2015
Instrument S/N	8530122515	Start Time	08:52:08
	PA00313	Stop Date	11/17/2015
		Stop Time	12:24:08
		Total Time	0:03:32:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.014 mg/m ³
Max	0.174 mg/m ³
Max Date	11/17/2015
Max Time	11:00:08
Min	0.010 mg/m ³
Min Date	11/17/2015
Min Time	12:24:08
TWA (8 hr)	0.006
TWA Start Date	11/17/2015
TWA Start Time	08:52:08
TWA End Time	12:24:08

Test 003

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/17/2015
Instrument S/N	8530122515	Start Time	08:52:08
		Stop Date	11/17/2015
		Stop Time	12:24:08
		Total Time	0:03:32:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/17/2015	08:53:08	0.022
2	11/17/2015	08:54:08	0.018
3	11/17/2015	08:55:08	0.018
4	11/17/2015	08:56:08	0.018
5	11/17/2015	08:57:08	0.017
6	11/17/2015	08:58:08	0.017
7	11/17/2015	08:59:08	0.017
8	11/17/2015	09:00:08	0.017
9	11/17/2015	09:01:08	0.017
10	11/17/2015	09:02:08	0.017
11	11/17/2015	09:03:08	0.016
12	11/17/2015	09:04:08	0.017
13	11/17/2015	09:05:08	0.017
14	11/17/2015	09:06:08	0.016
15	11/17/2015	09:07:08	0.016
16	11/17/2015	09:08:08	0.015
17	11/17/2015	09:09:08	0.015
18	11/17/2015	09:10:08	0.015
19	11/17/2015	09:11:08	0.016
20	11/17/2015	09:12:08	0.016
21	11/17/2015	09:13:08	0.016
22	11/17/2015	09:14:08	0.016
23	11/17/2015	09:15:08	0.016
24	11/17/2015	09:16:08	0.016
25	11/17/2015	09:17:08	0.016
26	11/17/2015	09:18:08	0.016
27	11/17/2015	09:19:08	0.016
28	11/17/2015	09:20:08	0.016
29	11/17/2015	09:21:08	0.016
30	11/17/2015	09:22:08	0.017
31	11/17/2015	09:23:08	0.016
32	11/17/2015	09:24:08	0.016
33	11/17/2015	09:25:08	0.016
34	11/17/2015	09:26:08	0.016
35	11/17/2015	09:27:08	0.016

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/17/2015	09:28:08	0.015
37	11/17/2015	09:29:08	0.015
38	11/17/2015	09:30:08	0.014
39	11/17/2015	09:31:08	0.015
40	11/17/2015	09:32:08	0.015
41	11/17/2015	09:33:08	0.015
42	11/17/2015	09:34:08	0.014
43	11/17/2015	09:35:08	0.015
44	11/17/2015	09:36:08	0.014
45	11/17/2015	09:37:08	0.014
46	11/17/2015	09:38:08	0.014
47	11/17/2015	09:39:08	0.014
48	11/17/2015	09:40:08	0.014
49	11/17/2015	09:41:08	0.014
50	11/17/2015	09:42:08	0.014
51	11/17/2015	09:43:08	0.014
52	11/17/2015	09:44:08	0.014
53	11/17/2015	09:45:08	0.013
54	11/17/2015	09:46:08	0.013
55	11/17/2015	09:47:08	0.013
56	11/17/2015	09:48:08	0.014
57	11/17/2015	09:49:08	0.014
58	11/17/2015	09:50:08	0.014
59	11/17/2015	09:51:08	0.013
60	11/17/2015	09:52:08	0.014
61	11/17/2015	09:53:08	0.013
62	11/17/2015	09:54:08	0.013
63	11/17/2015	09:55:08	0.013
64	11/17/2015	09:56:08	0.013
65	11/17/2015	09:57:08	0.013
66	11/17/2015	09:58:08	0.013
67	11/17/2015	09:59:08	0.014
68	11/17/2015	10:00:08	0.014
69	11/17/2015	10:01:08	0.014
70	11/17/2015	10:02:08	0.038
71	11/17/2015	10:03:08	0.014
72	11/17/2015	10:04:08	0.014
73	11/17/2015	10:05:08	0.014
74	11/17/2015	10:06:08	0.014
75	11/17/2015	10:07:08	0.014
76	11/17/2015	10:08:08	0.013
77	11/17/2015	10:09:08	0.013
78	11/17/2015	10:10:08	0.013
79	11/17/2015	10:11:08	0.013
80	11/17/2015	10:12:08	0.013
81	11/17/2015	10:13:08	0.013

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/17/2015	10:14:08	0.013
83	11/17/2015	10:15:08	0.012
84	11/17/2015	10:16:08	0.012
85	11/17/2015	10:17:08	0.012
86	11/17/2015	10:18:08	0.012
87	11/17/2015	10:19:08	0.013
88	11/17/2015	10:20:08	0.012
89	11/17/2015	10:21:08	0.012
90	11/17/2015	10:22:08	0.012
91	11/17/2015	10:23:08	0.012
92	11/17/2015	10:24:08	0.011
93	11/17/2015	10:25:08	0.011
94	11/17/2015	10:26:08	0.012
95	11/17/2015	10:27:08	0.012
96	11/17/2015	10:28:08	0.012
97	11/17/2015	10:29:08	0.012
98	11/17/2015	10:30:08	0.012
99	11/17/2015	10:31:08	0.012
100	11/17/2015	10:32:08	0.013
101	11/17/2015	10:33:08	0.025
102	11/17/2015	10:34:08	0.014
103	11/17/2015	10:35:08	0.012
104	11/17/2015	10:36:08	0.011
105	11/17/2015	10:37:08	0.012
106	11/17/2015	10:38:08	0.011
107	11/17/2015	10:39:08	0.012
108	11/17/2015	10:40:08	0.011
109	11/17/2015	10:41:08	0.011
110	11/17/2015	10:42:08	0.011
111	11/17/2015	10:43:08	0.011
112	11/17/2015	10:44:08	0.012
113	11/17/2015	10:45:08	0.014
114	11/17/2015	10:46:08	0.012
115	11/17/2015	10:47:08	0.011
116	11/17/2015	10:48:08	0.011
117	11/17/2015	10:49:08	0.011
118	11/17/2015	10:50:08	0.011
119	11/17/2015	10:51:08	0.011
120	11/17/2015	10:52:08	0.012
121	11/17/2015	10:53:08	0.011
122	11/17/2015	10:54:08	0.011
123	11/17/2015	10:55:08	0.011
124	11/17/2015	10:56:08	0.012
125	11/17/2015	10:57:08	0.013
126	11/17/2015	10:58:08	0.012
127	11/17/2015	10:59:08	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/17/2015	11:00:08	0.174
129	11/17/2015	11:01:08	0.012
130	11/17/2015	11:02:08	0.012
131	11/17/2015	11:03:08	0.012
132	11/17/2015	11:04:08	0.012
133	11/17/2015	11:05:08	0.013
134	11/17/2015	11:06:08	0.012
135	11/17/2015	11:07:08	0.013
136	11/17/2015	11:08:08	0.013
137	11/17/2015	11:09:08	0.013
138	11/17/2015	11:10:08	0.012
139	11/17/2015	11:11:08	0.013
140	11/17/2015	11:12:08	0.013
141	11/17/2015	11:13:08	0.014
142	11/17/2015	11:14:08	0.013
143	11/17/2015	11:15:08	0.013
144	11/17/2015	11:16:08	0.014
145	11/17/2015	11:17:08	0.014
146	11/17/2015	11:18:08	0.014
147	11/17/2015	11:19:08	0.014
148	11/17/2015	11:20:08	0.014
149	11/17/2015	11:21:08	0.013
150	11/17/2015	11:22:08	0.013
151	11/17/2015	11:23:08	0.013
152	11/17/2015	11:24:08	0.013
153	11/17/2015	11:25:08	0.013
154	11/17/2015	11:26:08	0.014
155	11/17/2015	11:27:08	0.014
156	11/17/2015	11:28:08	0.015
157	11/17/2015	11:29:08	0.015
158	11/17/2015	11:30:08	0.015
159	11/17/2015	11:31:08	0.015
160	11/17/2015	11:32:08	0.014
161	11/17/2015	11:33:08	0.015
162	11/17/2015	11:34:08	0.014
163	11/17/2015	11:35:08	0.014
164	11/17/2015	11:36:08	0.014
165	11/17/2015	11:37:08	0.014
166	11/17/2015	11:38:08	0.013
167	11/17/2015	11:39:08	0.013
168	11/17/2015	11:40:08	0.014
169	11/17/2015	11:41:08	0.013
170	11/17/2015	11:42:08	0.013
171	11/17/2015	11:43:08	0.013
172	11/17/2015	11:44:08	0.013
173	11/17/2015	11:45:08	0.013

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
174	11/17/2015	11:46:08	0.013
175	11/17/2015	11:47:08	0.012
176	11/17/2015	11:48:08	0.012
177	11/17/2015	11:49:08	0.012
178	11/17/2015	11:50:08	0.012
179	11/17/2015	11:51:08	0.012
180	11/17/2015	11:52:08	0.011
181	11/17/2015	11:53:08	0.011
182	11/17/2015	11:54:08	0.011
183	11/17/2015	11:55:08	0.011
184	11/17/2015	11:56:08	0.012
185	11/17/2015	11:57:08	0.011
186	11/17/2015	11:58:08	0.016
187	11/17/2015	11:59:08	0.011
188	11/17/2015	12:00:08	0.011
189	11/17/2015	12:01:08	0.011
190	11/17/2015	12:02:08	0.011
191	11/17/2015	12:03:08	0.011
192	11/17/2015	12:04:08	0.012
193	11/17/2015	12:05:08	0.011
194	11/17/2015	12:06:08	0.011
195	11/17/2015	12:07:08	0.011
196	11/17/2015	12:08:08	0.011
197	11/17/2015	12:09:08	0.011
198	11/17/2015	12:10:08	0.011
199	11/17/2015	12:11:08	0.011
200	11/17/2015	12:12:08	0.011
201	11/17/2015	12:13:08	0.011
202	11/17/2015	12:14:08	0.011
203	11/17/2015	12:15:08	0.011
204	11/17/2015	12:16:08	0.011
205	11/17/2015	12:17:08	0.011
206	11/17/2015	12:18:08	0.011
207	11/17/2015	12:19:08	0.011
208	11/17/2015	12:20:08	0.011
209	11/17/2015	12:21:08	0.011
210	11/17/2015	12:22:08	0.011
211	11/17/2015	12:23:08	0.011
212	11/17/2015	12:24:08	0.010

Test 004

Upwind MW-355

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/17/2015
Instrument S/N	8530122515	Start Time	15:07:35
		Stop Date	11/17/2015
		Stop Time	17:09:35
		Total Time	0:02:02:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.011 mg/m ³
Max	0.013 mg/m ³
Max Date	11/17/2015
Max Time	15:19:35
Min	0.010 mg/m ³
Min Date	11/17/2015
Min Time	16:10:35
TWA (8 hr)	0.003
TWA Start Date	11/17/2015
TWA Start Time	15:07:35
TWA End Time	17:09:35

Test 004

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/17/2015
Instrument S/N	8530122515	Start Time	15:07:35
		Stop Date	11/17/2015
		Stop Time	17:09:35
		Total Time	0:02:02:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/17/2015	15:08:35	0.011
2	11/17/2015	15:09:35	0.011
3	11/17/2015	15:10:35	0.011
4	11/17/2015	15:11:35	0.011
5	11/17/2015	15:12:35	0.011
6	11/17/2015	15:13:35	0.011
7	11/17/2015	15:14:35	0.012
8	11/17/2015	15:15:35	0.012
9	11/17/2015	15:16:35	0.012
10	11/17/2015	15:17:35	0.012
11	11/17/2015	15:18:35	0.012
12	11/17/2015	15:19:35	0.013
13	11/17/2015	15:20:35	0.013
14	11/17/2015	15:21:35	0.013
15	11/17/2015	15:22:35	0.013
16	11/17/2015	15:23:35	0.013
17	11/17/2015	15:24:35	0.013
18	11/17/2015	15:25:35	0.012
19	11/17/2015	15:26:35	0.012
20	11/17/2015	15:27:35	0.012
21	11/17/2015	15:28:35	0.012
22	11/17/2015	15:29:35	0.011
23	11/17/2015	15:30:35	0.012
24	11/17/2015	15:31:35	0.012
25	11/17/2015	15:32:35	0.012
26	11/17/2015	15:33:35	0.011
27	11/17/2015	15:34:35	0.011
28	11/17/2015	15:35:35	0.011
29	11/17/2015	15:36:35	0.011
30	11/17/2015	15:37:35	0.011
31	11/17/2015	15:38:35	0.011
32	11/17/2015	15:39:35	0.011
33	11/17/2015	15:40:35	0.011
34	11/17/2015	15:41:35	0.011
35	11/17/2015	15:42:35	0.011

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/17/2015	15:43:35	0.011
37	11/17/2015	15:44:35	0.013
38	11/17/2015	15:45:35	0.011
39	11/17/2015	15:46:35	0.011
40	11/17/2015	15:47:35	0.011
41	11/17/2015	15:48:35	0.011
42	11/17/2015	15:49:35	0.011
43	11/17/2015	15:50:35	0.011
44	11/17/2015	15:51:35	0.011
45	11/17/2015	15:52:35	0.011
46	11/17/2015	15:53:35	0.011
47	11/17/2015	15:54:35	0.011
48	11/17/2015	15:55:35	0.011
49	11/17/2015	15:56:35	0.011
50	11/17/2015	15:57:35	0.011
51	11/17/2015	15:58:35	0.011
52	11/17/2015	15:59:35	0.011
53	11/17/2015	16:00:35	0.011
54	11/17/2015	16:01:35	0.011
55	11/17/2015	16:02:35	0.011
56	11/17/2015	16:03:35	0.011
57	11/17/2015	16:04:35	0.011
58	11/17/2015	16:05:35	0.011
59	11/17/2015	16:06:35	0.011
60	11/17/2015	16:07:35	0.011
61	11/17/2015	16:08:35	0.012
62	11/17/2015	16:09:35	0.011
63	11/17/2015	16:10:35	0.010
64	11/17/2015	16:11:35	0.010
65	11/17/2015	16:12:35	0.011
66	11/17/2015	16:13:35	0.010
67	11/17/2015	16:14:35	0.010
68	11/17/2015	16:15:35	0.010
69	11/17/2015	16:16:35	0.010
70	11/17/2015	16:17:35	0.011
71	11/17/2015	16:18:35	0.010
72	11/17/2015	16:19:35	0.011
73	11/17/2015	16:20:35	0.011
74	11/17/2015	16:21:35	0.011
75	11/17/2015	16:22:35	0.011
76	11/17/2015	16:23:35	0.011
77	11/17/2015	16:24:35	0.011
78	11/17/2015	16:25:35	0.011
79	11/17/2015	16:26:35	0.011
80	11/17/2015	16:27:35	0.011
81	11/17/2015	16:28:35	0.010

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/17/2015	16:29:35	0.011
83	11/17/2015	16:30:35	0.010
84	11/17/2015	16:31:35	0.010
85	11/17/2015	16:32:35	0.010
86	11/17/2015	16:33:35	0.010
87	11/17/2015	16:34:35	0.010
88	11/17/2015	16:35:35	0.010
89	11/17/2015	16:36:35	0.010
90	11/17/2015	16:37:35	0.010
91	11/17/2015	16:38:35	0.010
92	11/17/2015	16:39:35	0.010
93	11/17/2015	16:40:35	0.010
94	11/17/2015	16:41:35	0.010
95	11/17/2015	16:42:35	0.010
96	11/17/2015	16:43:35	0.010
97	11/17/2015	16:44:35	0.010
98	11/17/2015	16:45:35	0.010
99	11/17/2015	16:46:35	0.010
100	11/17/2015	16:47:35	0.010
101	11/17/2015	16:48:35	0.010
102	11/17/2015	16:49:35	0.010
103	11/17/2015	16:50:35	0.010
104	11/17/2015	16:51:35	0.010
105	11/17/2015	16:52:35	0.010
106	11/17/2015	16:53:35	0.010
107	11/17/2015	16:54:35	0.010
108	11/17/2015	16:55:35	0.010
109	11/17/2015	16:56:35	0.011
110	11/17/2015	16:57:35	0.011
111	11/17/2015	16:58:35	0.010
112	11/17/2015	16:59:35	0.011
113	11/17/2015	17:00:35	0.011
114	11/17/2015	17:01:35	0.011
115	11/17/2015	17:02:35	0.011
116	11/17/2015	17:03:35	0.011
117	11/17/2015	17:04:35	0.011
118	11/17/2015	17:05:35	0.011
119	11/17/2015	17:06:35	0.011
120	11/17/2015	17:07:35	0.011
121	11/17/2015	17:08:35	0.011
122	11/17/2015	17:09:35	0.011

Test 005

Upwind mw-355

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/18/2015
Instrument S/N	8530122515	Start Time	07:47:04
	FA00313	Stop Date	11/18/2015
		Stop Time	09:29:04
		Total Time	0:01:42:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.013 mg/m ³
Max	0.017 mg/m ³
Max Date	11/18/2015
Max Time	07:49:04
Min	0.011 mg/m ³
Min Date	11/18/2015
Min Time	09:12:04
TWA (8 hr)	0.003
TWA Start Date	11/18/2015
TWA Start Time	07:47:04
TWA End Time	09:29:04

Test 005

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/18/2015
Instrument S/N	8530122515	Start Time	07:47:04
		Stop Date	11/18/2015
		Stop Time	09:29:04
		Total Time	0:01:42:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/18/2015	07:48:04	0.016
2	11/18/2015	07:49:04	0.017
3	11/18/2015	07:50:04	0.017
4	11/18/2015	07:51:04	0.017
5	11/18/2015	07:52:04	0.017
6	11/18/2015	07:53:04	0.016
7	11/18/2015	07:54:04	0.017
8	11/18/2015	07:55:04	0.016
9	11/18/2015	07:56:04	0.016
10	11/18/2015	07:57:04	0.016
11	11/18/2015	07:58:04	0.016
12	11/18/2015	07:59:04	0.016
13	11/18/2015	08:00:04	0.016
14	11/18/2015	08:01:04	0.016
15	11/18/2015	08:02:04	0.015
16	11/18/2015	08:03:04	0.015
17	11/18/2015	08:04:04	0.015
18	11/18/2015	08:05:04	0.015
19	11/18/2015	08:06:04	0.015
20	11/18/2015	08:07:04	0.015
21	11/18/2015	08:08:04	0.015
22	11/18/2015	08:09:04	0.014
23	11/18/2015	08:10:04	0.015
24	11/18/2015	08:11:04	0.014
25	11/18/2015	08:12:04	0.014
26	11/18/2015	08:13:04	0.014
27	11/18/2015	08:14:04	0.015
28	11/18/2015	08:15:04	0.014
29	11/18/2015	08:16:04	0.014
30	11/18/2015	08:17:04	0.014
31	11/18/2015	08:18:04	0.014
32	11/18/2015	08:19:04	0.013
33	11/18/2015	08:20:04	0.014
34	11/18/2015	08:21:04	0.014
35	11/18/2015	08:22:04	0.014

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
36	11/18/2015	08:23:04	0.014
37	11/18/2015	08:24:04	0.014
38	11/18/2015	08:25:04	0.013
39	11/18/2015	08:26:04	0.013
40	11/18/2015	08:27:04	0.014
41	11/18/2015	08:28:04	0.013
42	11/18/2015	08:29:04	0.013
43	11/18/2015	08:30:04	0.014
44	11/18/2015	08:31:04	0.014
45	11/18/2015	08:32:04	0.013
46	11/18/2015	08:33:04	0.013
47	11/18/2015	08:34:04	0.013
48	11/18/2015	08:35:04	0.013
49	11/18/2015	08:36:04	0.013
50	11/18/2015	08:37:04	0.013
51	11/18/2015	08:38:04	0.013
52	11/18/2015	08:39:04	0.013
53	11/18/2015	08:40:04	0.013
54	11/18/2015	08:41:04	0.013
55	11/18/2015	08:42:04	0.013
56	11/18/2015	08:43:04	0.013
57	11/18/2015	08:44:04	0.013
58	11/18/2015	08:45:04	0.013
59	11/18/2015	08:46:04	0.013
60	11/18/2015	08:47:04	0.013
61	11/18/2015	08:48:04	0.013
62	11/18/2015	08:49:04	0.013
63	11/18/2015	08:50:04	0.012
64	11/18/2015	08:51:04	0.012
65	11/18/2015	08:52:04	0.012
66	11/18/2015	08:53:04	0.012
67	11/18/2015	08:54:04	0.012
68	11/18/2015	08:55:04	0.012
69	11/18/2015	08:56:04	0.012
70	11/18/2015	08:57:04	0.012
71	11/18/2015	08:58:04	0.012
72	11/18/2015	08:59:04	0.012
73	11/18/2015	09:00:04	0.012
74	11/18/2015	09:01:04	0.012
75	11/18/2015	09:02:04	0.012
76	11/18/2015	09:03:04	0.012
77	11/18/2015	09:04:04	0.012
78	11/18/2015	09:05:04	0.012
79	11/18/2015	09:06:04	0.012
80	11/18/2015	09:07:04	0.012
81	11/18/2015	09:08:04	0.012

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/18/2015	09:09:04	0.012
83	11/18/2015	09:10:04	0.012
84	11/18/2015	09:11:04	0.012
85	11/18/2015	09:12:04	0.011
86	11/18/2015	09:13:04	0.012
87	11/18/2015	09:14:04	0.012
88	11/18/2015	09:15:04	0.011
89	11/18/2015	09:16:04	0.011
90	11/18/2015	09:17:04	0.011
91	11/18/2015	09:18:04	0.012
92	11/18/2015	09:19:04	0.011
93	11/18/2015	09:20:04	0.011
94	11/18/2015	09:21:04	0.011
95	11/18/2015	09:22:04	0.011
96	11/18/2015	09:23:04	0.011
97	11/18/2015	09:24:04	0.011
98	11/18/2015	09:25:04	0.011
99	11/18/2015	09:26:04	0.011
100	11/18/2015	09:27:04	0.011
101	11/18/2015	09:28:04	0.011
102	11/18/2015	09:29:04	0.011

Test 005

Upwind MW-325/B

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/18/2015
Instrument S/N	8530130711	Start Time	14:31:31
	PA00512	Stop Date	11/18/2015
		Stop Time	17:12:31
		Total Time	0:02:41:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.007 mg/m ³
Max	0.009 mg/m ³
Max Date	11/18/2015
Max Time	16:51:31
Min	0.006 mg/m ³
Min Date	11/18/2015
Min Time	14:32:31
TWA (8 hr)	0.002
TWA Start Date	11/18/2015
TWA Start Time	14:31:31
TWA End Time	17:12:31

Test 005

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/18/2015
Instrument S/N	8530130711	Start Time	14:31:31
		Stop Date	11/18/2015
		Stop Time	17:12:31
		Total Time	0:02:41:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/18/2015	14:32:31	0.006
2	11/18/2015	14:33:31	0.007
3	11/18/2015	14:34:31	0.007
4	11/18/2015	14:35:31	0.006
5	11/18/2015	14:36:31	0.007
6	11/18/2015	14:37:31	0.006
7	11/18/2015	14:38:31	0.006
8	11/18/2015	14:39:31	0.006
9	11/18/2015	14:40:31	0.007
10	11/18/2015	14:41:31	0.006
11	11/18/2015	14:42:31	0.006
12	11/18/2015	14:43:31	0.006
13	11/18/2015	14:44:31	0.006
14	11/18/2015	14:45:31	0.006
15	11/18/2015	14:46:31	0.006
16	11/18/2015	14:47:31	0.006
17	11/18/2015	14:48:31	0.006
18	11/18/2015	14:49:31	0.006
19	11/18/2015	14:50:31	0.006
20	11/18/2015	14:51:31	0.006
21	11/18/2015	14:52:31	0.006
22	11/18/2015	14:53:31	0.006
23	11/18/2015	14:54:31	0.006
24	11/18/2015	14:55:31	0.006
25	11/18/2015	14:56:31	0.006
26	11/18/2015	14:57:31	0.006
27	11/18/2015	14:58:31	0.006
28	11/18/2015	14:59:31	0.006
29	11/18/2015	15:00:31	0.006
30	11/18/2015	15:01:31	0.006
31	11/18/2015	15:02:31	0.006
32	11/18/2015	15:03:31	0.006
33	11/18/2015	15:04:31	0.006
34	11/18/2015	15:05:31	0.006
35	11/18/2015	15:06:31	0.007

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
36	11/18/2015	15:07:31	0.006
37	11/18/2015	15:08:31	0.007
38	11/18/2015	15:09:31	0.007
39	11/18/2015	15:10:31	0.006
40	11/18/2015	15:11:31	0.007
41	11/18/2015	15:12:31	0.007
42	11/18/2015	15:13:31	0.006
43	11/18/2015	15:14:31	0.006
44	11/18/2015	15:15:31	0.007
45	11/18/2015	15:16:31	0.006
46	11/18/2015	15:17:31	0.007
47	11/18/2015	15:18:31	0.007
48	11/18/2015	15:19:31	0.007
49	11/18/2015	15:20:31	0.007
50	11/18/2015	15:21:31	0.006
51	11/18/2015	15:22:31	0.007
52	11/18/2015	15:23:31	0.006
53	11/18/2015	15:24:31	0.006
54	11/18/2015	15:25:31	0.007
55	11/18/2015	15:26:31	0.006
56	11/18/2015	15:27:31	0.006
57	11/18/2015	15:28:31	0.006
58	11/18/2015	15:29:31	0.006
59	11/18/2015	15:30:31	0.006
60	11/18/2015	15:31:31	0.006
61	11/18/2015	15:32:31	0.007
62	11/18/2015	15:33:31	0.007
63	11/18/2015	15:34:31	0.007
64	11/18/2015	15:35:31	0.008
65	11/18/2015	15:36:31	0.008
66	11/18/2015	15:37:31	0.006
67	11/18/2015	15:38:31	0.006
68	11/18/2015	15:39:31	0.006
69	11/18/2015	15:40:31	0.007
70	11/18/2015	15:41:31	0.007
71	11/18/2015	15:42:31	0.007
72	11/18/2015	15:43:31	0.007
73	11/18/2015	15:44:31	0.007
74	11/18/2015	15:45:31	0.006
75	11/18/2015	15:46:31	0.006
76	11/18/2015	15:47:31	0.006
77	11/18/2015	15:48:31	0.006
78	11/18/2015	15:49:31	0.006
79	11/18/2015	15:50:31	0.007
80	11/18/2015	15:51:31	0.007
81	11/18/2015	15:52:31	0.006

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/18/2015	15:53:31	0.007
83	11/18/2015	15:54:31	0.007
84	11/18/2015	15:55:31	0.007
85	11/18/2015	15:56:31	0.006
86	11/18/2015	15:57:31	0.007
87	11/18/2015	15:58:31	0.007
88	11/18/2015	15:59:31	0.007
89	11/18/2015	16:00:31	0.007
90	11/18/2015	16:01:31	0.007
91	11/18/2015	16:02:31	0.007
92	11/18/2015	16:03:31	0.006
93	11/18/2015	16:04:31	0.007
94	11/18/2015	16:05:31	0.007
95	11/18/2015	16:06:31	0.007
96	11/18/2015	16:07:31	0.007
97	11/18/2015	16:08:31	0.007
98	11/18/2015	16:09:31	0.007
99	11/18/2015	16:10:31	0.007
100	11/18/2015	16:11:31	0.007
101	11/18/2015	16:12:31	0.007
102	11/18/2015	16:13:31	0.007
103	11/18/2015	16:14:31	0.007
104	11/18/2015	16:15:31	0.007
105	11/18/2015	16:16:31	0.007
106	11/18/2015	16:17:31	0.007
107	11/18/2015	16:18:31	0.007
108	11/18/2015	16:19:31	0.007
109	11/18/2015	16:20:31	0.007
110	11/18/2015	16:21:31	0.007
111	11/18/2015	16:22:31	0.007
112	11/18/2015	16:23:31	0.007
113	11/18/2015	16:24:31	0.007
114	11/18/2015	16:25:31	0.007
115	11/18/2015	16:26:31	0.007
116	11/18/2015	16:27:31	0.007
117	11/18/2015	16:28:31	0.007
118	11/18/2015	16:29:31	0.008
119	11/18/2015	16:30:31	0.007
120	11/18/2015	16:31:31	0.008
121	11/18/2015	16:32:31	0.008
122	11/18/2015	16:33:31	0.008
123	11/18/2015	16:34:31	0.008
124	11/18/2015	16:35:31	0.008
125	11/18/2015	16:36:31	0.008
126	11/18/2015	16:37:31	0.008
127	11/18/2015	16:38:31	0.008

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/18/2015	16:39:31	0.008
129	11/18/2015	16:40:31	0.008
130	11/18/2015	16:41:31	0.008
131	11/18/2015	16:42:31	0.008
132	11/18/2015	16:43:31	0.008
133	11/18/2015	16:44:31	0.008
134	11/18/2015	16:45:31	0.008
135	11/18/2015	16:46:31	0.008
136	11/18/2015	16:47:31	0.008
137	11/18/2015	16:48:31	0.008
138	11/18/2015	16:49:31	0.008
139	11/18/2015	16:50:31	0.008
140	11/18/2015	16:51:31	0.009
141	11/18/2015	16:52:31	0.008
142	11/18/2015	16:53:31	0.008
143	11/18/2015	16:54:31	0.008
144	11/18/2015	16:55:31	0.008
145	11/18/2015	16:56:31	0.009
146	11/18/2015	16:57:31	0.008
147	11/18/2015	16:58:31	0.008
148	11/18/2015	16:59:31	0.008
149	11/18/2015	17:00:31	0.008
150	11/18/2015	17:01:31	0.008
151	11/18/2015	17:02:31	0.008
152	11/18/2015	17:03:31	0.009
153	11/18/2015	17:04:31	0.009
154	11/18/2015	17:05:31	0.009
155	11/18/2015	17:06:31	0.009
156	11/18/2015	17:07:31	0.009
157	11/18/2015	17:08:31	0.009
158	11/18/2015	17:09:31	0.009
159	11/18/2015	17:10:31	0.009
160	11/18/2015	17:11:31	0.009
161	11/18/2015	17:12:31	0.009

Test 001

UpWind MW 32 S/D

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/19/2015
Instrument S/N	8530130711	Start Time	08:08:12
	EA00512	Stop Date	11/19/2015
		Stop Time	11:27:12
		Total Time	0:03:19:00
		Logging Interval	60 seconds

Statistics	
	AEROSOL
Avg	0.002 mg/m ³
Max	0.007 mg/m ³
Max Date	11/19/2015
Max Time	08:17:12
Min	0.000 mg/m ³
Min Date	11/19/2015
Min Time	11:16:12
TWA (8 hr)	0.001
TWA Start Date	11/19/2015
TWA Start Time	08:08:12
TWA End Time	11:27:12

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	11/19/2015
Instrument S/N	8530130711	Start Time	08:08:12
		Stop Date	11/19/2015
		Stop Time	11:27:12
		Total Time	0:03:19:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	11/19/2015	08:09:12	0.003
2	11/19/2015	08:10:12	0.004
3	11/19/2015	08:11:12	0.004
4	11/19/2015	08:12:12	0.004
5	11/19/2015	08:13:12	0.004
6	11/19/2015	08:14:12	0.004
7	11/19/2015	08:15:12	0.004
8	11/19/2015	08:16:12	0.004
9	11/19/2015	08:17:12	0.007
10	11/19/2015	08:18:12	0.003
11	11/19/2015	08:19:12	0.003
12	11/19/2015	08:20:12	0.004
13	11/19/2015	08:21:12	0.003
14	11/19/2015	08:22:12	0.003
15	11/19/2015	08:23:12	0.003
16	11/19/2015	08:24:12	0.003
17	11/19/2015	08:25:12	0.003
18	11/19/2015	08:26:12	0.003
19	11/19/2015	08:27:12	0.003
20	11/19/2015	08:28:12	0.003
21	11/19/2015	08:29:12	0.003
22	11/19/2015	08:30:12	0.003
23	11/19/2015	08:31:12	0.003
24	11/19/2015	08:32:12	0.003
25	11/19/2015	08:33:12	0.003
26	11/19/2015	08:34:12	0.004
27	11/19/2015	08:35:12	0.003
28	11/19/2015	08:36:12	0.003
29	11/19/2015	08:37:12	0.003
30	11/19/2015	08:38:12	0.003
31	11/19/2015	08:39:12	0.003
32	11/19/2015	08:40:12	0.003
33	11/19/2015	08:41:12	0.003
34	11/19/2015	08:42:12	0.003
35	11/19/2015	08:43:12	0.003

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
36	11/19/2015	08:44:12	0.003
37	11/19/2015	08:45:12	0.003
38	11/19/2015	08:46:12	0.003
39	11/19/2015	08:47:12	0.003
40	11/19/2015	08:48:12	0.003
41	11/19/2015	08:49:12	0.003
42	11/19/2015	08:50:12	0.003
43	11/19/2015	08:51:12	0.003
44	11/19/2015	08:52:12	0.003
45	11/19/2015	08:53:12	0.003
46	11/19/2015	08:54:12	0.003
47	11/19/2015	08:55:12	0.003
48	11/19/2015	08:56:12	0.003
49	11/19/2015	08:57:12	0.003
50	11/19/2015	08:58:12	0.003
51	11/19/2015	08:59:12	0.003
52	11/19/2015	09:00:12	0.003
53	11/19/2015	09:01:12	0.003
54	11/19/2015	09:02:12	0.003
55	11/19/2015	09:03:12	0.003
56	11/19/2015	09:04:12	0.003
57	11/19/2015	09:05:12	0.003
58	11/19/2015	09:06:12	0.003
59	11/19/2015	09:07:12	0.003
60	11/19/2015	09:08:12	0.003
61	11/19/2015	09:09:12	0.003
62	11/19/2015	09:10:12	0.002
63	11/19/2015	09:11:12	0.002
64	11/19/2015	09:12:12	0.003
65	11/19/2015	09:13:12	0.003
66	11/19/2015	09:14:12	0.002
67	11/19/2015	09:15:12	0.002
68	11/19/2015	09:16:12	0.003
69	11/19/2015	09:17:12	0.002
70	11/19/2015	09:18:12	0.002
71	11/19/2015	09:19:12	0.002
72	11/19/2015	09:20:12	0.002
73	11/19/2015	09:21:12	0.002
74	11/19/2015	09:22:12	0.002
75	11/19/2015	09:23:12	0.002
76	11/19/2015	09:24:12	0.002
77	11/19/2015	09:25:12	0.002
78	11/19/2015	09:26:12	0.002
79	11/19/2015	09:27:12	0.002
80	11/19/2015	09:28:12	0.002
81	11/19/2015	09:29:12	0.002

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
82	11/19/2015	09:30:12	0.002
83	11/19/2015	09:31:12	0.002
84	11/19/2015	09:32:12	0.002
85	11/19/2015	09:33:12	0.002
86	11/19/2015	09:34:12	0.002
87	11/19/2015	09:35:12	0.002
88	11/19/2015	09:36:12	0.002
89	11/19/2015	09:37:12	0.002
90	11/19/2015	09:38:12	0.002
91	11/19/2015	09:39:12	0.002
92	11/19/2015	09:40:12	0.002
93	11/19/2015	09:41:12	0.002
94	11/19/2015	09:42:12	0.002
95	11/19/2015	09:43:12	0.002
96	11/19/2015	09:44:12	0.002
97	11/19/2015	09:45:12	0.002
98	11/19/2015	09:46:12	0.002
99	11/19/2015	09:47:12	0.003
100	11/19/2015	09:48:12	0.002
101	11/19/2015	09:49:12	0.002
102	11/19/2015	09:50:12	0.002
103	11/19/2015	09:51:12	0.002
104	11/19/2015	09:52:12	0.002
105	11/19/2015	09:53:12	0.002
106	11/19/2015	09:54:12	0.002
107	11/19/2015	09:55:12	0.002
108	11/19/2015	09:56:12	0.002
109	11/19/2015	09:57:12	0.002
110	11/19/2015	09:58:12	0.002
111	11/19/2015	09:59:12	0.002
112	11/19/2015	10:00:12	0.002
113	11/19/2015	10:01:12	0.002
114	11/19/2015	10:02:12	0.002
115	11/19/2015	10:03:12	0.002
116	11/19/2015	10:04:12	0.002
117	11/19/2015	10:05:12	0.002
118	11/19/2015	10:06:12	0.002
119	11/19/2015	10:07:12	0.002
120	11/19/2015	10:08:12	0.002
121	11/19/2015	10:09:12	0.002
122	11/19/2015	10:10:12	0.002
123	11/19/2015	10:11:12	0.002
124	11/19/2015	10:12:12	0.002
125	11/19/2015	10:13:12	0.003
126	11/19/2015	10:14:12	0.002
127	11/19/2015	10:15:12	0.002

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
128	11/19/2015	10:16:12	0.002
129	11/19/2015	10:17:12	0.002
130	11/19/2015	10:18:12	0.002
131	11/19/2015	10:19:12	0.002
132	11/19/2015	10:20:12	0.002
133	11/19/2015	10:21:12	0.002
134	11/19/2015	10:22:12	0.002
135	11/19/2015	10:23:12	0.002
136	11/19/2015	10:24:12	0.002
137	11/19/2015	10:25:12	0.002
138	11/19/2015	10:26:12	0.002
139	11/19/2015	10:27:12	0.002
140	11/19/2015	10:28:12	0.002
141	11/19/2015	10:29:12	0.002
142	11/19/2015	10:30:12	0.002
143	11/19/2015	10:31:12	0.002
144	11/19/2015	10:32:12	0.002
145	11/19/2015	10:33:12	0.002
146	11/19/2015	10:34:12	0.002
147	11/19/2015	10:35:12	0.001
148	11/19/2015	10:36:12	0.001
149	11/19/2015	10:37:12	0.002
150	11/19/2015	10:38:12	0.001
151	11/19/2015	10:39:12	0.001
152	11/19/2015	10:40:12	0.001
153	11/19/2015	10:41:12	0.001
154	11/19/2015	10:42:12	0.001
155	11/19/2015	10:43:12	0.002
156	11/19/2015	10:44:12	0.001
157	11/19/2015	10:45:12	0.001
158	11/19/2015	10:46:12	0.001
159	11/19/2015	10:47:12	0.001
160	11/19/2015	10:48:12	0.001
161	11/19/2015	10:49:12	0.001
162	11/19/2015	10:50:12	0.001
163	11/19/2015	10:51:12	0.001
164	11/19/2015	10:52:12	0.001
165	11/19/2015	10:53:12	0.001
166	11/19/2015	10:54:12	0.003
167	11/19/2015	10:55:12	0.002
168	11/19/2015	10:56:12	0.002
169	11/19/2015	10:57:12	0.001
170	11/19/2015	10:58:12	0.001
171	11/19/2015	10:59:12	0.001
172	11/19/2015	11:00:12	0.001
173	11/19/2015	11:01:12	0.002

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
174	11/19/2015	11:02:12	0.001
175	11/19/2015	11:03:12	0.001
176	11/19/2015	11:04:12	0.001
177	11/19/2015	11:05:12	0.001
178	11/19/2015	11:06:12	0.001
179	11/19/2015	11:07:12	0.001
180	11/19/2015	11:08:12	0.001
181	11/19/2015	11:09:12	0.001
182	11/19/2015	11:10:12	0.001
183	11/19/2015	11:11:12	0.001
184	11/19/2015	11:12:12	0.001
185	11/19/2015	11:13:12	0.001
186	11/19/2015	11:14:12	0.001
187	11/19/2015	11:15:12	0.001
188	11/19/2015	11:16:12	0.000
189	11/19/2015	11:17:12	0.000
190	11/19/2015	11:18:12	0.001
191	11/19/2015	11:19:12	0.001
192	11/19/2015	11:20:12	0.001
193	11/19/2015	11:21:12	0.000
194	11/19/2015	11:22:12	0.001
195	11/19/2015	11:23:12	0.000
196	11/19/2015	11:24:12	0.000
197	11/19/2015	11:25:12	0.001
198	11/19/2015	11:26:12	0.000
199	11/19/2015	11:27:12	0.000

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 218 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/09/2015 11:50

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	11/9/2012 12:56		0.4	3.4
2	11/9/2012 12:57		0.2	1.7
3	11/9/2012 12:58		0	0
4	11/9/2012 12:59		0	0
5	11/9/2012 13:00		0	0.5
6	11/9/2012 13:01		0	0.1
7	11/9/2012 13:02		0	0
8	11/9/2012 13:03		0	0
9	11/9/2012 13:04		0	0
10	11/9/2012 13:05		0	0
11	11/9/2012 13:06		0	0
12	11/9/2012 13:07		0	0
13	11/9/2012 13:08		0	0
14	11/9/2012 13:09		0	0
15	11/9/2012 13:10		0	0
16	11/9/2012 13:11		0	0
17	11/9/2012 13:12		0	0
18	11/9/2012 13:13		0	0
19	11/9/2012 13:14		0	0
20	11/9/2012 13:15		0	0
21	11/9/2012 13:16		0	0
22	11/9/2012 13:17		0	0
23	11/9/2012 13:18		0	0
24	11/9/2012 13:19		0	0
25	11/9/2012 13:20		0	0
26	11/9/2012 13:21		0	0
27	11/9/2012 13:22		0	0
28	11/9/2012 13:23		0	0.1
29	11/9/2012 13:24		0	0.1
30	11/9/2012 13:25		0	0
31	11/9/2012 13:26		0	0.3
32	11/9/2012 13:27		0	0
33	11/9/2012 13:28		0	0
34	11/9/2012 13:29		0	0
35	11/9/2012 13:30		0	0
36	11/9/2012 13:31		0	0
37	11/9/2012 13:32		0	0
38	11/9/2012 13:33		0	0
39	11/9/2012 13:34		0	0
40	11/9/2012 13:35		0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
 User ID: 00000001 Site ID: 00000020
 Data Points: 218 Gas Name: Isobutylene Sample Period: 60 sec
 Last Calibration Time: 11/09/2015 11:50

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
41	11/9/2012 13:36		0	0
42	11/9/2012 13:37		0	0
43	11/9/2012 13:38		0	0
44	11/9/2012 13:39		0	0
45	11/9/2012 13:40		0	0.2
46	11/9/2012 13:41		0	0
47	11/9/2012 13:42		0	0
48	11/9/2012 13:43		0	0
49	11/9/2012 13:44		0	0
50	11/9/2012 13:45		0	0
51	11/9/2012 13:46		0	0
52	11/9/2012 13:47		0	0
53	11/9/2012 13:48		0	0
54	11/9/2012 13:49		0	0
55	11/9/2012 13:50		0	0
56	11/9/2012 13:51		0	0.4
57	11/9/2012 13:52		0	0.3
58	11/9/2012 13:53		0	0
59	11/9/2012 13:54		0	0
60	11/9/2012 13:55		0	0
61	11/9/2012 13:56		0	0
62	11/9/2012 13:57		0	0
63	11/9/2012 13:58		0	0
64	11/9/2012 13:59		0	0
65	11/9/2012 14:00		0	0
66	11/9/2012 14:01		0	0
67	11/9/2012 14:02		0	0
68	11/9/2012 14:03		0	0
69	11/9/2012 14:04		0	0
70	11/9/2012 14:05		0	0
71	11/9/2012 14:06		0	0
72	11/9/2012 14:07		0	0.2
73	11/9/2012 14:08		0	0.2
74	11/9/2012 14:09		0	0.1
75	11/9/2012 14:10		0	0
76	11/9/2012 14:11		0	0
77	11/9/2012 14:12		0	0
78	11/9/2012 14:13		0	0
79	11/9/2012 14:14		0	0.5
80	11/9/2012 14:15		0	0.2

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013351

User ID: 00000001 Site ID: 00000020

Data Points: 218 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 11/09/2015 11:50

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
81	11/9/2012 14:16		0	0.3
82	11/9/2012 14:17		0	0.2
83	11/9/2012 14:18		0	0
84	11/9/2012 14:19		0	0
85	11/9/2012 14:20		0	0
86	11/9/2012 14:21		0	0
87	11/9/2012 14:22		0	0.2
88	11/9/2012 14:23		0	0
89	11/9/2012 14:24		0	0
90	11/9/2012 14:25		0	0
91	11/9/2012 14:26		0	0
92	11/9/2012 14:27		0	0
93	11/9/2012 14:28		0	0
94	11/9/2012 14:29		0	0
95	11/9/2012 14:30		0	0
96	11/9/2012 14:31		0	0
97	11/9/2012 14:32		0	0.3
98	11/9/2012 14:33		0	0.2
99	11/9/2012 14:34		0	0.1
100	11/9/2012 14:35		0	0.1
101	11/9/2012 14:36		0	0.1
102	11/9/2012 14:37		0	0.1
103	11/9/2012 14:38		0	0
104	11/9/2012 14:39		0	0
105	11/9/2012 14:40		0	0
106	11/9/2012 14:41		0	0
107	11/9/2012 14:42		0	0
108	11/9/2012 14:43		0	0
109	11/9/2012 14:44		0	0
110	11/9/2012 14:45		0	0.3
111	11/9/2012 14:46		0	0.2
112	11/9/2012 14:47		0	0.3
113	11/9/2012 14:48		0	0.2
114	11/9/2012 14:49		0	0
115	11/9/2012 14:50		0	0.2
116	11/9/2012 14:51		0	0
117	11/9/2012 14:52		0	0.1
118	11/9/2012 14:53		0	0
119	11/9/2012 14:54		0	0
120	11/9/2012 14:55		0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
 User ID: 00000001 Site ID: 00000020
 Data Points: 218 Gas Name: Isobutylene Sample Period: 60 sec
 Last Calibration Time: 11/09/2015 11:50

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	11/9/2012 14:56		0	0
122	11/9/2012 14:57		0	0
123	11/9/2012 14:58		0	0
124	11/9/2012 14:59		0	0
125	11/9/2012 15:00		0	0
126	11/9/2012 15:01		0	0
127	11/9/2012 15:02		0	0
128	11/9/2012 15:03		0	0
129	11/9/2012 15:04		0	0
130	11/9/2012 15:05		0	0
131	11/9/2012 15:06		0.1	0.8
132	11/9/2012 15:07		0	0
133	11/9/2012 15:08		0	0
134	11/9/2012 15:09		0	0
135	11/9/2012 15:10		0	0
136	11/9/2012 15:11		0	0
137	11/9/2012 15:12		0	0
138	11/9/2012 15:13		0	0
139	11/9/2012 15:14		0	0
140	11/9/2012 15:15		0	0
141	11/9/2012 15:16		0	0
142	11/9/2012 15:17		0	0
143	11/9/2012 15:18		0	0
144	11/9/2012 15:19		0	0
145	11/9/2012 15:20		0	0
146	11/9/2012 15:21		0	0
147	11/9/2012 15:22		0	0
148	11/9/2012 15:23		0	0
149	11/9/2012 15:24		0	0
150	11/9/2012 15:25		0	0
151	11/9/2012 15:26		0	0
152	11/9/2012 15:27		0	0
153	11/9/2012 15:28		0	0
154	11/9/2012 15:29		0	0
155	11/9/2012 15:30		0	0
156	11/9/2012 15:31		0	0
157	11/9/2012 15:32		0	0
158	11/9/2012 15:33		0	0
159	11/9/2012 15:34		0	0
160	11/9/2012 15:35		0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 218 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/09/2015 11:50

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
161	11/9/2012 15:36		0	0
162	11/9/2012 15:37		0	0
163	11/9/2012 15:38		0	0
164	11/9/2012 15:39		0	0
165	11/9/2012 15:40		0	0
166	11/9/2012 15:41		0	0
167	11/9/2012 15:42		0	0
168	11/9/2012 15:43		0	0
169	11/9/2012 15:44		0	0
170	11/9/2012 15:45		0	0
171	11/9/2012 15:46		0	0
172	11/9/2012 15:47		0	0
173	11/9/2012 15:48		0	0
174	11/9/2012 15:49		0	0
175	11/9/2012 15:50		0	0
176	11/9/2012 15:51		0	0
177	11/9/2012 15:52		0	0
178	11/9/2012 15:53		0	0
179	11/9/2012 15:54		0	0
180	11/9/2012 15:55		0	0
181	11/9/2012 15:56		0	0
182	11/9/2012 15:57		0	0
183	11/9/2012 15:58		0	0
184	11/9/2012 15:59		0	0
185	11/9/2012 16:00		0	0
186	11/9/2012 16:01		0	0
187	11/9/2012 16:02		0	0
188	11/9/2012 16:03		0	0
189	11/9/2012 16:04		0	0
190	11/9/2012 16:05		0	0
191	11/9/2012 16:06		0	0
192	11/9/2012 16:07		0	0
193	11/9/2012 16:08		0	0
194	11/9/2012 16:09		0	0
195	11/9/2012 16:10		0	0
196	11/9/2012 16:11		0	0
197	11/9/2012 16:12		0	0
198	11/9/2012 16:13		0	0
199	11/9/2012 16:14		0	0
200	11/9/2012 16:15		0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 218 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/09/2015 11:50

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
201	11/9/2012 16:16		0	0
202	11/9/2012 16:17		0	0
203	11/9/2012 16:18		0	0
204	11/9/2012 16:19		0	0
205	11/9/2012 16:20		0	0
206	11/9/2012 16:21		0	0
207	11/9/2012 16:22		0	0
208	11/9/2012 16:23		0	0
209	11/9/2012 16:24		0	0
210	11/9/2012 16:25		0	0
211	11/9/2012 16:26		0	0
212	11/9/2012 16:27		0	0
213	11/9/2012 16:28		0	0
214	11/9/2012 16:29		0	0
215	11/9/2012 16:30		0	0
216	11/9/2012 16:31		0	0
217	11/9/2012 16:32		0	0
218	11/9/2012 16:33		0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 13 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/10/2015 08:09

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
1	11/10/2015 9:21		0	0
2	11/10/2015 9:22		0	0
3	11/10/2015 9:23		0	0
4	11/10/2015 9:24		0	0
5	11/10/2015 9:25		0	0
6	11/10/2015 9:26		0	0
7	11/10/2015 9:27		0	0
8	11/10/2015 9:28		0	0
9	11/10/2015 9:29		0	0
10	11/10/2015 9:30		0	0
11	11/10/2015 9:31		0	0
12	11/10/2015 9:32		0	0
13	11/10/2015 9:33		0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 178 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/10/2015 08:09

Measurement Type:

High Alarm Levels:

Low Alarm Levels:

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
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1	11/10/2015 9:41	0	0	0
2	11/10/2015 9:42	0	0	0
3	11/10/2015 9:43	0	0	0
4	11/10/2015 9:44	0	0	0
5	11/10/2015 9:45	0	0	0
6	11/10/2015 9:46	0	0	0
7	11/10/2015 9:47	0	0	0
8	11/10/2015 9:48	0	0.2	0.2
9	11/10/2015 9:49	0	0.1	0.1
10	11/10/2015 9:50	0	0	0
11	11/10/2015 9:51	0	0	0
12	11/10/2015 9:52	0	0	0
13	11/10/2015 9:53	0	0	0
14	11/10/2015 9:54	0	0	0
15	11/10/2015 9:55	0	0	0
16	11/10/2015 9:56	0	0	0
17	11/10/2015 9:57	0	0	0
18	11/10/2015 9:58	0	0	0
19	11/10/2015 9:59	0	0	0
20	11/10/2015 10:00	0	0	0
21	11/10/2015 10:01	0	0	0
22	11/10/2015 10:02	0	0.1	0.1
23	11/10/2015 10:03	0	0.1	0.1
24	11/10/2015 10:04	0	0.2	0.2
25	11/10/2015 10:05	0	0	0
26	11/10/2015 10:06	0	0	0
27	11/10/2015 10:07	0	0	0
28	11/10/2015 10:08	0	0	0
29	11/10/2015 10:09	0	0.1	0.1
30	11/10/2015 10:10	0	0	0
31	11/10/2015 10:11	0	0	0
32	11/10/2015 10:12	0	0	0
33	11/10/2015 10:13	0	0	0
34	11/10/2015 10:14	0	0	0
35	11/10/2015 10:15	0	0	0
36	11/10/2015 10:16	0	0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 178 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/10/2015 08:09

Measurement Type:

High Alarm Levels:

Low Alarm Levels:

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
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37	11/10/2015 10:17	0	0	0
38	11/10/2015 10:18	0	0	0
39	11/10/2015 10:19	0	0	0
40	11/10/2015 10:20	0	0	0
41	11/10/2015 10:21	0	0	0
42	11/10/2015 10:22	0	0	0
43	11/10/2015 10:23	0	0	0
44	11/10/2015 10:24	0	0	0
45	11/10/2015 10:25	0	0	0
46	11/10/2015 10:26	0	0	0
47	11/10/2015 10:27	0	0	0
48	11/10/2015 10:28	0	0	0
49	11/10/2015 10:29	0	0	0
50	11/10/2015 10:30	0	0.1	0.1
51	11/10/2015 10:31	0	0.1	0.1
52	11/10/2015 10:32	0	0	0
53	11/10/2015 10:33	0	0	0
54	11/10/2015 10:34	0	0	0
55	11/10/2015 10:35	0	0.2	0.2
56	11/10/2015 10:36	0	0	0
57	11/10/2015 10:37	0	0	0
58	11/10/2015 10:38	0	0.3	0.3
59	11/10/2015 10:39	0	0	0
60	11/10/2015 10:40	0	0	0
61	11/10/2015 10:41	0	0	0
62	11/10/2015 10:42	0	0	0
63	11/10/2015 10:43	0	0	0
64	11/10/2015 10:44	0	0	0
65	11/10/2015 10:45	0	0.1	0.1
66	11/10/2015 10:46	0	0.1	0.1
67	11/10/2015 10:47	0	0	0
68	11/10/2015 10:48	0	0.1	0.1
69	11/10/2015 10:49	0	0.1	0.1
70	11/10/2015 10:50	0	0.1	0.1
71	11/10/2015 10:51	0	0	0
72	11/10/2015 10:52	0	0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 178 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/10/2015 08:09

Measurement Type:

High Alarm Levels:

Low Alarm Levels:

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
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73	11/10/2015 10:53		0	0
74	11/10/2015 10:54		0	0.1
75	11/10/2015 10:55		0	0.1
76	11/10/2015 10:56		0	0
77	11/10/2015 10:57		0	0.1
78	11/10/2015 10:58		0	0.1
79	11/10/2015 10:59		0	0.1
80	11/10/2015 11:00		0	0.1
81	11/10/2015 11:01		0	0.1
82	11/10/2015 11:02		0	0.1
83	11/10/2015 11:03		0	0.1
84	11/10/2015 11:04		0	0.1
85	11/10/2015 11:05		0	0.1
86	11/10/2015 11:06		0	0.1
87	11/10/2015 11:07		0	0.1
88	11/10/2015 11:08		0	0.1
89	11/10/2015 11:09		0	0.1
90	11/10/2015 11:10		0	0.1
91	11/10/2015 11:11		0.1	0.4
92	11/10/2015 11:12		0	0.1
93	11/10/2015 11:13		0	0.1
94	11/10/2015 11:14		0	0.1
95	11/10/2015 11:15		0	0.1
96	11/10/2015 11:16		0	0.1
97	11/10/2015 11:17		0	0.1
98	11/10/2015 11:18		0	0.1
99	11/10/2015 11:19		0	0.1
100	11/10/2015 11:20		0	0.1
101	11/10/2015 11:21		0	0.1
102	11/10/2015 11:22		0	0.1
103	11/10/2015 11:23		0	0.1
104	11/10/2015 11:24		0	0.1
105	11/10/2015 11:25		0	0.1
106	11/10/2015 11:26		0	0.1
107	11/10/2015 11:27		0	0.1
108	11/10/2015 11:28		0	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 178 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/10/2015 08:09

Measurement Type:

High Alarm Levels:

Low Alarm Levels:

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
-------	-----------	----------	----------	----------

109	11/10/2015 11:29		0	0.1
110	11/10/2015 11:30		0	0.1
111	11/10/2015 11:31		0	0.1
112	11/10/2015 11:32		0	0.1
113	11/10/2015 11:33		0	0.1
114	11/10/2015 11:34		0	0.1
115	11/10/2015 11:35		0	0.1
116	11/10/2015 11:36		0	0.1
117	11/10/2015 11:37		0	0.2
118	11/10/2015 11:38		0	0.2
119	11/10/2015 11:39		0	0.1
120	11/10/2015 11:40		0	0.1
121	11/10/2015 11:41		0	0.1
122	11/10/2015 11:42		0	0.1
123	11/10/2015 11:43		0	0.1
124	11/10/2015 11:44		0	0.1
125	11/10/2015 11:45		0	0.1
126	11/10/2015 11:46		0	0.1
127	11/10/2015 11:47		0	0.1
128	11/10/2015 11:48		0	0.1
129	11/10/2015 11:49		0	0.1
130	11/10/2015 11:50		0.1	0.1
131	11/10/2015 11:51		0	0.1
132	11/10/2015 11:52		0	0.1
133	11/10/2015 11:53		0	0.1
134	11/10/2015 11:54		0	0.1
135	11/10/2015 11:55		0.1	0.1
136	11/10/2015 11:56		0.1	0.1
137	11/10/2015 11:57		0	0.1
138	11/10/2015 11:58		0.1	0.3
139	11/10/2015 11:59		0.1	0.2
140	11/10/2015 12:00		0	0.1
141	11/10/2015 12:01		0	0.1
142	11/10/2015 12:02		0	0.1
143	11/10/2015 12:03		0	0.1
144	11/10/2015 12:04		0	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 178 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/10/2015 08:09

Measurement Type:

High Alarm Levels:

Low Alarm Levels:

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
-------	-----------	----------	----------	----------

145	11/10/2015 12:05	0	0.1	
146	11/10/2015 12:06	0.1	0.1	
147	11/10/2015 12:07	0	0.1	
148	11/10/2015 12:08	0.1	0.1	
149	11/10/2015 12:09	0	0.1	
150	11/10/2015 12:10	0	0.1	
151	11/10/2015 12:11	0	0.1	
152	11/10/2015 12:12	0.1	0.1	
153	11/10/2015 12:13	0.1	0.1	
154	11/10/2015 12:14	0	0.1	
155	11/10/2015 12:15	0	0.1	
156	11/10/2015 12:16	0	0.1	
157	11/10/2015 12:17	0.1	0.1	
158	11/10/2015 12:18	0.1	0.1	
159	11/10/2015 12:19	0.1	0.1	
160	11/10/2015 12:20	0.1	0.1	
161	11/10/2015 12:21	0.1	0.1	
162	11/10/2015 12:22	0.1	0.1	
163	11/10/2015 12:23	0.1	0.1	
164	11/10/2015 12:24	0	0.1	
165	11/10/2015 12:25	0	0.1	
166	11/10/2015 12:26	0.1	0.1	
167	11/10/2015 12:27	0	0.1	
168	11/10/2015 12:28	0	0.1	
169	11/10/2015 12:29	0	0.1	
170	11/10/2015 12:30	0	0.1	
171	11/10/2015 12:31	0	0.1	
172	11/10/2015 12:32	0	0.1	
173	11/10/2015 12:33	0.1	0.1	
174	11/10/2015 12:34	0.1	0.1	
175	11/10/2015 12:35	0.1	0.1	
176	11/10/2015 12:36	0.1	0.1	
177	11/10/2015 12:37	0.1	0.1	
178	11/10/2015 12:38	0.1	0.1	

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 89 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/12/2015 08:14

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
1	11/12/2015 8:21		0	0.1
2	11/12/2015 8:22		0	0.1
3	11/12/2015 8:23		0	0
4	11/12/2015 8:24		0.1	3
5	11/12/2015 8:25		0	0.1
6	11/12/2015 8:26		0	0
7	11/12/2015 8:27		0	0.1
8	11/12/2015 8:28		0	0
9	11/12/2015 8:29		0	0.2
10	11/12/2015 8:30		0	0
11	11/12/2015 8:31		0	0
12	11/12/2015 8:32		0	0
13	11/12/2015 8:33		0	0
14	11/12/2015 8:34		0	0
15	11/12/2015 8:35		0	0
16	11/12/2015 8:36		0	0.1
17	11/12/2015 8:37		0	0
18	11/12/2015 8:38		0	0.1
19	11/12/2015 8:39		0	0.2
20	11/12/2015 8:40		0	0.3
21	11/12/2015 8:41		0	0.1
22	11/12/2015 8:42		0	0
23	11/12/2015 8:43		0	0.1
24	11/12/2015 8:44		0	0.1
25	11/12/2015 8:45		0	0.1
26	11/12/2015 8:46		0	0
27	11/12/2015 8:47		0	0
28	11/12/2015 8:48		0	0
29	11/12/2015 8:49		0	0.4
30	11/12/2015 8:50		0	0.2
31	11/12/2015 8:51		0	0.1
32	11/12/2015 8:52		0	0.1
33	11/12/2015 8:53		0	0.2
34	11/12/2015 8:54		0	0.2
35	11/12/2015 8:55		0	0.3
36	11/12/2015 8:56		0.1	0.3
37	11/12/2015 8:57		0	0.2
38	11/12/2015 8:58		0	0.1
39	11/12/2015 8:59		0	0
40	11/12/2015 9:00		0	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 89 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/12/2015 08:14

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
41	11/12/2015 9:01		0	0.1
42	11/12/2015 9:02		0	0.1
43	11/12/2015 9:03		0	0
44	11/12/2015 9:04		0	0.1
45	11/12/2015 9:05		0	0.1
46	11/12/2015 9:06		0	0.4
47	11/12/2015 9:07		0	0.2
48	11/12/2015 9:08		0	0.1
49	11/12/2015 9:09		0	0.1
50	11/12/2015 9:10		0	0.2
51	11/12/2015 9:11		0	0.1
52	11/12/2015 9:12		0	0.1
53	11/12/2015 9:13		0	0.3
54	11/12/2015 9:14		0.2	1.3
55	11/12/2015 9:15		0	0.2
56	11/12/2015 9:16		0	0.2
57	11/12/2015 9:17		0	0.1
58	11/12/2015 9:18		0	0.1
59	11/12/2015 9:19		0	0.2
60	11/12/2015 9:20		0	0.2
61	11/12/2015 9:21		0	0.1
62	11/12/2015 9:22		0	0.2
63	11/12/2015 9:23		0	0.2
64	11/12/2015 9:24		0	0.1
65	11/12/2015 9:25		0	0.2
66	11/12/2015 9:26		0	0.2
67	11/12/2015 9:27		0.1	0.3
68	11/12/2015 9:28		0	0.1
69	11/12/2015 9:29		0.1	0.7
70	11/12/2015 9:30		0	0.3
71	11/12/2015 9:31		0	0.2
72	11/12/2015 9:32		0	0.1
73	11/12/2015 9:33		0.1	0.5
74	11/12/2015 9:34		0	0.1
75	11/12/2015 9:35		0.1	0.6
76	11/12/2015 9:36		0	0.2
77	11/12/2015 9:37		0	0.3
78	11/12/2015 9:38		0	0.2
79	11/12/2015 9:39		0	0.3
80	11/12/2015 9:40		0.1	0.6

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 89 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/12/2015 08:14

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
81	11/12/2015 9:41		0	0.3
82	11/12/2015 9:42		0	0.1
83	11/12/2015 9:43		0	0.2
84	11/12/2015 9:44		0	0.1
85	11/12/2015 9:45		0	0.2
86	11/12/2015 9:46		0	0.2
87	11/12/2015 9:47		0	0.2
88	11/12/2015 9:48		0	0.1
89	11/12/2015 9:49		0	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 80 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/12/2015 08:14

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
1	11/12/2015 11:04		0	0.1
2	11/12/2015 11:05		0	0.2
3	11/12/2015 11:06		0	0.1
4	11/12/2015 11:07		0	0.1
5	11/12/2015 11:08		0	0
6	11/12/2015 11:09		0	0.2
7	11/12/2015 11:10		0	0
8	11/12/2015 11:11		0	0.1
9	11/12/2015 11:12		0	0
10	11/12/2015 11:13		0	0.1
11	11/12/2015 11:14		0	0
12	11/12/2015 11:15		0	0
13	11/12/2015 11:16		0	0.4
14	11/12/2015 11:17		0	0
15	11/12/2015 11:18		0	0
16	11/12/2015 11:19		0	0
17	11/12/2015 11:20		0	0.2
18	11/12/2015 11:21		0	0.1
19	11/12/2015 11:22		0	0
20	11/12/2015 11:23		0	0.1
21	11/12/2015 11:24		0	0.3
22	11/12/2015 11:25		0	0.3
23	11/12/2015 11:26		0	0.1
24	11/12/2015 11:27		0	0.2
25	11/12/2015 11:28		0	0
26	11/12/2015 11:29		0	0.3
27	11/12/2015 11:30		0	0.1
28	11/12/2015 11:31		0	0.5
29	11/12/2015 11:32		0	0
30	11/12/2015 11:33		0	0.1
31	11/12/2015 11:34		0	0.3
32	11/12/2015 11:35		0	0.2
33	11/12/2015 11:36		0	0.1
34	11/12/2015 11:37		0	0.2
35	11/12/2015 11:38		0	0.2
36	11/12/2015 11:39		0	0
37	11/12/2015 11:40		0	0.1
38	11/12/2015 11:41		0	0.2
39	11/12/2015 11:42		0	0.2
40	11/12/2015 11:43		0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 80 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/12/2015 08:14

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
41	11/12/2015 11:44		0	0
42	11/12/2015 11:45		0	0.1
43	11/12/2015 11:46		0	0
44	11/12/2015 11:47		0	0
45	11/12/2015 11:48		0	0.2
46	11/12/2015 11:49		0	0.1
47	11/12/2015 11:50		0	0.1
48	11/12/2015 11:51		0	0
49	11/12/2015 11:52		0	0.2
50	11/12/2015 11:53		0	0
51	11/12/2015 11:54		0	0.1
52	11/12/2015 11:55		0	0.2
53	11/12/2015 11:56		0	0.4
54	11/12/2015 11:57		0	0
55	11/12/2015 11:58		0	0
56	11/12/2015 11:59		0	0
57	11/12/2015 12:00		0	0
58	11/12/2015 12:01		0	0
59	11/12/2015 12:02		0	0.1
60	11/12/2015 12:03		0	0
61	11/12/2015 12:04		0	0.1
62	11/12/2015 12:05		0	0
63	11/12/2015 12:06		0	0.1
64	11/12/2015 12:07		0	0.3
65	11/12/2015 12:08		0	0.2
66	11/12/2015 12:09		0	0.2
67	11/12/2015 12:10		0	0.2
68	11/12/2015 12:11		0	0.2
69	11/12/2015 12:12		0	0.2
70	11/12/2015 12:13		0	0.2
71	11/12/2015 12:14		0	0.2
72	11/12/2015 12:15		0	0.2
73	11/12/2015 12:16		0	0.2
74	11/12/2015 12:17		0	0.2
75	11/12/2015 12:18		0	0.2
76	11/12/2015 12:19		0	0.2
77	11/12/2015 12:20		0	0.1
78	11/12/2015 12:21		0	0.2
79	11/12/2015 12:22		0	0.2
80	11/12/2015 12:23		0	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 74 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/12/2015 08:14

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	11/12/2015 13:56		0	0.4
2	11/12/2015 13:57		0	0.3
3	11/12/2015 13:58		0	0.7
4	11/12/2015 13:59		0	0.1
5	11/12/2015 14:00		0	0
6	11/12/2015 14:01		0	0.3
7	11/12/2015 14:02		0	0.2
8	11/12/2015 14:03		0	0.4
9	11/12/2015 14:04		0	0
10	11/12/2015 14:05		0	0.1
11	11/12/2015 14:06		0	0.2
12	11/12/2015 14:07		0	0.3
13	11/12/2015 14:08		0	0.1
14	11/12/2015 14:09		0	0
15	11/12/2015 14:10		0	0.1
16	11/12/2015 14:11		0	0.1
17	11/12/2015 14:12		0	0.4
18	11/12/2015 14:13		0	0
19	11/12/2015 14:14		0	0.3
20	11/12/2015 14:15		0.1	0.5
21	11/12/2015 14:16		0	0.2
22	11/12/2015 14:17		0	0
23	11/12/2015 14:18		0	0.1
24	11/12/2015 14:19		0	0
25	11/12/2015 14:20		0	0
26	11/12/2015 14:21		0	0.1
27	11/12/2015 14:22		0	0.1
28	11/12/2015 14:23		0	0.4
29	11/12/2015 14:24		0	0
30	11/12/2015 14:25		0	0.2
31	11/12/2015 14:26		0	0.2
32	11/12/2015 14:27		0	0.2
33	11/12/2015 14:28		0	0.2
34	11/12/2015 14:29		0	0
35	11/12/2015 14:30		0	0
36	11/12/2015 14:31		0	0
37	11/12/2015 14:32		0	0
38	11/12/2015 14:33		0	0
39	11/12/2015 14:34		0	0
40	11/12/2015 14:35		0	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 74 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/12/2015 08:14

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
41	11/12/2015 14:36		0	0.2
42	11/12/2015 14:37		0	0.2
43	11/12/2015 14:38		0	0.2
44	11/12/2015 14:39		0	0.1
45	11/12/2015 14:40		0	0.1
46	11/12/2015 14:41		0	0.1
47	11/12/2015 14:42		0	0.1
48	11/12/2015 14:43		0	0.1
49	11/12/2015 14:44		0	0.1
50	11/12/2015 14:45		0	0.1
51	11/12/2015 14:46		0	0.1
52	11/12/2015 14:47		0	0.1
53	11/12/2015 14:48		0	0.1
54	11/12/2015 14:49		0	0.1
55	11/12/2015 14:50		0	0.1
56	11/12/2015 14:51		0	0.1
57	11/12/2015 14:52		0.1	0.3
58	11/12/2015 14:53		0.1	0.1
59	11/12/2015 14:54		0.1	0.1
60	11/12/2015 14:55		0.1	0.4
61	11/12/2015 14:56		0.1	0.2
62	11/12/2015 14:57		0.1	0.1
63	11/12/2015 14:58		0.1	0.1
64	11/12/2015 14:59		0.1	0.1
65	11/12/2015 15:00		0.1	0.2
66	11/12/2015 15:01		0.1	0.2
67	11/12/2015 15:02		0.1	0.2
68	11/12/2015 15:03		0.1	0.2
69	11/12/2015 15:04		0.1	0.2
70	11/12/2015 15:05		0.1	0.2
71	11/12/2015 15:06		0.1	0.2
72	11/12/2015 15:07		0.1	0.2
73	11/12/2015 15:08		0.1	0.2
74	11/12/2015 15:09		0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 100 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/13/2015 7:59

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
1	11/13/2015 11:15		0	0
2	11/13/2015 11:16		0	0.1
3	11/13/2015 11:17		0	0.1
4	11/13/2015 11:18		0	0
5	11/13/2015 11:19		0	0
6	11/13/2015 11:20		0	0
7	11/13/2015 11:21		0	0
8	11/13/2015 11:22		0	0
9	11/13/2015 11:23		0	0
10	11/13/2015 11:24		0	0.2
11	11/13/2015 11:25		0	0
12	11/13/2015 11:26		0	0
13	11/13/2015 11:27		0	0
14	11/13/2015 11:28		0	0
15	11/13/2015 11:29		0	0
16	11/13/2015 11:30		0	0
17	11/13/2015 11:31		0	0
18	11/13/2015 11:32		0	0
19	11/13/2015 11:33		0	0
20	11/13/2015 11:34		0	0
21	11/13/2015 11:35		0	0
22	11/13/2015 11:36		0	0
23	11/13/2015 11:37		0	0
24	11/13/2015 11:38		0	0
25	11/13/2015 11:39		0	0
26	11/13/2015 11:40		0	0
27	11/13/2015 11:41		0	0
28	11/13/2015 11:42		0	0
29	11/13/2015 11:43		0	0
30	11/13/2015 11:44		0	0
31	11/13/2015 11:45		0	0
32	11/13/2015 11:46		0	0
33	11/13/2015 11:47		0	0
34	11/13/2015 11:48		0	0
35	11/13/2015 11:49		0	0.1
36	11/13/2015 11:50		0	0
37	11/13/2015 11:51		0	0
38	11/13/2015 11:52		0	0
39	11/13/2015 11:53		0	0
40	11/13/2015 11:54		0	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 100 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/13/2015 7:59

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
41	11/13/2015 11:55		0	0.1
42	11/13/2015 11:56		0	0.1
43	11/13/2015 11:57		0	0.1
44	11/13/2015 11:58		0	0
45	11/13/2015 11:59		0	0
46	11/13/2015 12:00		0	0.1
47	11/13/2015 12:01		0	0
48	11/13/2015 12:02		0	0
49	11/13/2015 12:03		0	0
50	11/13/2015 12:04		0	0.1
51	11/13/2015 12:05		0	0
52	11/13/2015 12:06		0	0
53	11/13/2015 12:07		0	0.1
54	11/13/2015 12:08		0	0
55	11/13/2015 12:09		0	0.1
56	11/13/2015 12:10		0	0.1
57	11/13/2015 12:11		0	0.1
58	11/13/2015 12:12		0	0
59	11/13/2015 12:13		0	0
60	11/13/2015 12:14		0	0
61	11/13/2015 12:15		0	0.1
62	11/13/2015 12:16		0	0
63	11/13/2015 12:17		0	0.1
64	11/13/2015 12:18		0	0.1
65	11/13/2015 12:19		0	0.1
66	11/13/2015 12:20		0	0
67	11/13/2015 12:21		0	0.1
68	11/13/2015 12:22		0	0.1
69	11/13/2015 12:23		0	0.1
70	11/13/2015 12:24		0	0.1
71	11/13/2015 12:25		0	0.1
72	11/13/2015 12:26		0	0.1
73	11/13/2015 12:27		0	0.1
74	11/13/2015 12:28		0	0.1
75	11/13/2015 12:29		0	0.1
76	11/13/2015 12:30		0	0.1
77	11/13/2015 12:31		0	0.1
78	11/13/2015 12:32		0	0.1
79	11/13/2015 12:33		0	0.1
80	11/13/2015 12:34		0	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 100 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/13/2015 7:59

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
81	11/13/2015 12:35		0	0.1
82	11/13/2015 12:36		0	0.1
83	11/13/2015 12:37		0	0.1
84	11/13/2015 12:38		0	0.1
85	11/13/2015 12:39		0	0.1
86	11/13/2015 12:40		0	0.1
87	11/13/2015 12:41		0	0.1
88	11/13/2015 12:42		0	0.1
89	11/13/2015 12:43		0	0.1
90	11/13/2015 12:44		0	0.1
91	11/13/2015 12:45		0	0.1
92	11/13/2015 12:46		0	0.2
93	11/13/2015 12:47		0	0.3
94	11/13/2015 12:48		0	0.1
95	11/13/2015 12:49		0	0.1
96	11/13/2015 12:50		0	0.1
97	11/13/2015 12:51		0	0.1
98	11/13/2015 12:52		0	0.1
99	11/13/2015 12:53		0	0.1
100	11/13/2015 12:54		0	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 149 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/16/2015 12:29

=====

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
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=====

1	11/16/2015 13:06		0	0
2	11/16/2015 13:07		0	0
3	11/16/2015 13:08		0	0.1
4	11/16/2015 13:09		0	0
5	11/16/2015 13:10		0	0.2
6	11/16/2015 13:11		0	0
7	11/16/2015 13:12		0	0
8	11/16/2015 13:13		0	0
9	11/16/2015 13:14		0	0
10	11/16/2015 13:15		0	0
11	11/16/2015 13:16		0	0
12	11/16/2015 13:17		0	0
13	11/16/2015 13:18		0	0
14	11/16/2015 13:19		0	0
15	11/16/2015 13:20		0	0
16	11/16/2015 13:21		0	0.6
17	11/16/2015 13:22		0	0.1
18	11/16/2015 13:23	0.1		0.3
19	11/16/2015 13:24	0		0.3
20	11/16/2015 13:25	0		0.3
21	11/16/2015 13:26	0		0.2
22	11/16/2015 13:27	0		0.4
23	11/16/2015 13:28	0		0.4
24	11/16/2015 13:29	0		0.5
25	11/16/2015 13:30	0.2		1.3
26	11/16/2015 13:31	0.5		2.2
27	11/16/2015 13:32	0		0.5
28	11/16/2015 13:33	0.3		2.2
29	11/16/2015 13:34	0.4		3.5
30	11/16/2015 13:35	0.4		4.5
31	11/16/2015 13:36	0.2		1.4
32	11/16/2015 13:37	0.1		0.7
33	11/16/2015 13:38	0.1		1.2
34	11/16/2015 13:39	0.1		1.5
35	11/16/2015 13:40	0.2		0.7
36	11/16/2015 13:41	0.3		2
37	11/16/2015 13:42	0.3		1.5
38	11/16/2015 13:43	0.2		2.2
39	11/16/2015 13:44	0.3		3.1
40	11/16/2015 13:45	0.1		0.5

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
 User ID: 00000001 Site ID: 00000020
 Data Points: 149 Gas Name: Isobutylene Sample Period: 60 sec
 Last Calibration Time: 11/16/2015 12:29

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
41	11/16/2015 13:46		0.1	0.5
42	11/16/2015 13:47		0.1	0.5
43	11/16/2015 13:48		0.1	0.5
44	11/16/2015 13:49		0.1	0.4
45	11/16/2015 13:50		0.1	0.2
46	11/16/2015 13:51		0.1	0.3
47	11/16/2015 13:52		0.1	0.4
48	11/16/2015 13:53		0.1	0.5
49	11/16/2015 13:54		0.1	0.5
50	11/16/2015 13:55		0.1	0.6
51	11/16/2015 13:56		0.1	0.3
52	11/16/2015 13:57		0.2	0.4
53	11/16/2015 13:58		0.2	0.3
54	11/16/2015 13:59		0.1	0.4
55	11/16/2015 14:00		0.2	0.8
56	11/16/2015 14:01		0.1	0.7
57	11/16/2015 14:02		0.1	0.5
58	11/16/2015 14:03		0.1	0.2
59	11/16/2015 14:04		0.1	0.2
60	11/16/2015 14:05		0.1	0.3
61	11/16/2015 14:06		0.2	0.7
62	11/16/2015 14:07		0.2	0.9
63	11/16/2015 14:08		0.1	0.3
64	11/16/2015 14:09		0.1	0.3
65	11/16/2015 14:10		0.1	0.4
66	11/16/2015 14:11		0.1	0.4
67	11/16/2015 14:12		0.1	0.3
68	11/16/2015 14:13		0.1	0.5
69	11/16/2015 14:14		0.2	1.5
70	11/16/2015 14:15		0.1	0.2
71	11/16/2015 14:16		0.1	0.3
72	11/16/2015 14:17		0.1	0.2
73	11/16/2015 14:18		0.1	0.3
74	11/16/2015 14:19		0.1	0.2
75	11/16/2015 14:20		0.1	0.3
76	11/16/2015 14:21		0.1	0.3
77	11/16/2015 14:22		0.1	0.3
78	11/16/2015 14:23		0.1	0.2
79	11/16/2015 14:24		0.1	0.4
80	11/16/2015 14:25		0.2	0.4

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 149 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/16/2015 12:29

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Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
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=====

81	11/16/2015 14:26		0.2	0.9
82	11/16/2015 14:27		0.1	0.8
83	11/16/2015 14:28		0.2	0.4
84	11/16/2015 14:29		0.2	0.7
85	11/16/2015 14:30		0.2	0.6
86	11/16/2015 14:31		0.3	0.7
87	11/16/2015 14:32		0.2	0.6
88	11/16/2015 14:33		0.1	0.4
89	11/16/2015 14:34		0.1	0.3
90	11/16/2015 14:35		0.1	0.2
91	11/16/2015 14:36		0.1	0.1
92	11/16/2015 14:37		0.1	0.2
93	11/16/2015 14:38		0.1	0.3
94	11/16/2015 14:39		0.1	0.1
95	11/16/2015 14:40		0.1	0.3
96	11/16/2015 14:41		0.1	0.3
97	11/16/2015 14:42		0.1	0.5
98	11/16/2015 14:43		0.1	0.6
99	11/16/2015 14:44		0.1	0.4
100	11/16/2015 14:45		0.2	0.4
101	11/16/2015 14:46		0.3	0.9
102	11/16/2015 14:47		0.2	0.5
103	11/16/2015 14:48		0.2	0.5
104	11/16/2015 14:49		0.1	0.4
105	11/16/2015 14:50		0.1	0.4
106	11/16/2015 14:51		0.1	0.2
107	11/16/2015 14:52		0.1	0.3
108	11/16/2015 14:53		0.1	0.1
109	11/16/2015 14:54		0.1	0.5
110	11/16/2015 14:55		0.1	0.4
111	11/16/2015 14:56		0.2	0.7
112	11/16/2015 14:57		0.1	0.3
113	11/16/2015 14:58		0.1	0.3
114	11/16/2015 14:59		0.2	0.4
115	11/16/2015 15:00		0.2	0.4
116	11/16/2015 15:01		0.4	1
117	11/16/2015 15:02		0.2	0.5
118	11/16/2015 15:03		0.1	0.3
119	11/16/2015 15:04		0.1	0.1
120	11/16/2015 15:05		0.1	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 149 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/16/2015 12:29

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Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
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=====

121	11/16/2015 15:06		0.1	0.5
122	11/16/2015 15:07		0.1	0.5
123	11/16/2015 15:08		0.1	0.4
124	11/16/2015 15:09		0.2	1.6
125	11/16/2015 15:10		0.1	0.2
126	11/16/2015 15:11		0.1	0.1
127	11/16/2015 15:12		0.1	0.3
128	11/16/2015 15:13		0.1	0.3
129	11/16/2015 15:14		0.1	0.5
130	11/16/2015 15:15		0.1	0.1
131	11/16/2015 15:16		0.1	0.2
132	11/16/2015 15:17		0.1	0.1
133	11/16/2015 15:18		0.1	0.1
134	11/16/2015 15:19		0.1	0.1
135	11/16/2015 15:20		0.1	0.1
136	11/16/2015 15:21		0.1	0.1
137	11/16/2015 15:22		0.1	0.1
138	11/16/2015 15:23		0.1	0.1
139	11/16/2015 15:24		0.1	0.1
140	11/16/2015 15:25		0.1	0.1
141	11/16/2015 15:26		0.1	0.1
142	11/16/2015 15:27		0.1	0.1
143	11/16/2015 15:28		0.1	0.1
144	11/16/2015 15:29		0.1	0.1
145	11/16/2015 15:30		0.1	0.1
146	11/16/2015 15:31		0.1	0.1
147	11/16/2015 15:32		0.1	0.1
148	11/16/2015 15:33		0.1	0.3
149	11/16/2015 15:34		0.1	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 193 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/17/2015 08:36

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	11/17/2015 8:58		0.1	0.7
2	11/17/2015 8:59		0.1	0.4
3	11/17/2015 9:00		0	0.1
4	11/17/2015 9:01		0	0.5
5	11/17/2015 9:02		0.1	0.4
6	11/17/2015 9:03		0	0.1
7	11/17/2015 9:04		0	0.3
8	11/17/2015 9:05		0	0.8
9	11/17/2015 9:06		0.3	0.9
10	11/17/2015 9:07		0.1	0.4
11	11/17/2015 9:08		0.1	0.3
12	11/17/2015 9:09		0.1	0.7
13	11/17/2015 9:10		0	0.3
14	11/17/2015 9:11		0	0.2
15	11/17/2015 9:12		0.1	1.1
16	11/17/2015 9:13		0	0.3
17	11/17/2015 9:14		0	0.4
18	11/17/2015 9:15		0.1	0.7
19	11/17/2015 9:16		0	0.3
20	11/17/2015 9:17		0	0.1
21	11/17/2015 9:18		0	0.3
22	11/17/2015 9:19		0	0.2
23	11/17/2015 9:20		0	0.2
24	11/17/2015 9:21		0	0.2
25	11/17/2015 9:22		0.2	1.1
26	11/17/2015 9:23		0.1	0.1
27	11/17/2015 9:24		0.1	0.3
28	11/17/2015 9:25		0.1	0.2
29	11/17/2015 9:26		0.2	1.1
30	11/17/2015 9:27		0.2	0.5
31	11/17/2015 9:28		0.2	0.9
32	11/17/2015 9:29		0.1	0.1
33	11/17/2015 9:30		0.2	0.7
34	11/17/2015 9:31		0.1	0.6
35	11/17/2015 9:32		0.1	0.7
36	11/17/2015 9:33		0.1	0.3
37	11/17/2015 9:34		0.1	0.2
38	11/17/2015 9:35		0.1	0.5
39	11/17/2015 9:36		0.1	0.1
40	11/17/2015 9:37		0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 193 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/17/2015 08:36

```
=====
Line#  Date Time           Min(ppm)  Avg(ppm)  Max(ppm)
=====
```

41	11/17/2015 9:38		0.1	0.1
42	11/17/2015 9:39		0.1	0.1
43	11/17/2015 9:40		0.1	0.1
44	11/17/2015 9:41		0.1	0.2
45	11/17/2015 9:42		0.1	0.1
46	11/17/2015 9:43		0.1	0.1
47	11/17/2015 9:44		0.1	0.1
48	11/17/2015 9:45		0.1	0.1
49	11/17/2015 9:46		0.1	0.3
50	11/17/2015 9:47		0.1	0.3
51	11/17/2015 9:48		0.1	0.9
52	11/17/2015 9:49		0.1	0.8
53	11/17/2015 9:50		0.1	0.2
54	11/17/2015 9:51		0.1	0.1
55	11/17/2015 9:52		0.1	0.2
56	11/17/2015 9:53		0.3	1.3
57	11/17/2015 9:54		0.2	0.8
58	11/17/2015 9:55		0.2	0.8
59	11/17/2015 9:56		0.1	0.4
60	11/17/2015 9:57		0.1	0.3
61	11/17/2015 9:58		0.1	0.5
62	11/17/2015 9:59		0.1	0.7
63	11/17/2015 10:00		0.1	0.1
64	11/17/2015 10:01		0.1	0.4
65	11/17/2015 10:02		0.1	0.4
66	11/17/2015 10:03		0.1	0.4
67	11/17/2015 10:04		0.2	0.7
68	11/17/2015 10:05		0.1	0.6
69	11/17/2015 10:06		0.2	0.8
70	11/17/2015 10:07		0.1	0.4
71	11/17/2015 10:08		0.2	0.6
72	11/17/2015 10:09		0.1	0.5
73	11/17/2015 10:10		0.1	0.2
74	11/17/2015 10:11		0.2	0.8
75	11/17/2015 10:12		0.4	1.6
76	11/17/2015 10:13		0.3	2.1
77	11/17/2015 10:14		0.1	0.2
78	11/17/2015 10:15		0.1	0.2
79	11/17/2015 10:16		0.1	0.2
80	11/17/2015 10:17		0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
 User ID: 00000001 Site ID: 00000020
 Data Points: 193 Gas Name: Isobutylene Sample Period: 60 sec
 Last Calibration Time: 11/17/2015 08:36

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
81	11/17/2015 10:18		0.1	0.1
82	11/17/2015 10:19		0.1	0.7
83	11/17/2015 10:20		0.1	0.1
84	11/17/2015 10:21		0.1	0.2
85	11/17/2015 10:22		0.1	0.5
86	11/17/2015 10:23		0.1	0.2
87	11/17/2015 10:24		0.1	0.3
88	11/17/2015 10:25		0.2	2
89	11/17/2015 10:26		0.1	0.3
90	11/17/2015 10:27		0.1	0.2
91	11/17/2015 10:28		0.1	0.2
92	11/17/2015 10:29		0	0.1
93	11/17/2015 10:30		0.1	0.1
94	11/17/2015 10:31		0	0.1
95	11/17/2015 10:32		0.1	0.1
96	11/17/2015 10:33		0.1	0.6
97	11/17/2015 10:34		0.2	1.1
98	11/17/2015 10:35		0.3	1.2
99	11/17/2015 10:36		0.1	0.4
100	11/17/2015 10:37		0.1	0.5
101	11/17/2015 10:38		0.1	0.2
102	11/17/2015 10:39		0.1	0.2
103	11/17/2015 10:40		0.1	0.6
104	11/17/2015 10:41		0.1	0.6
105	11/17/2015 10:42		0.1	0.8
106	11/17/2015 10:43		0.1	0.5
107	11/17/2015 10:44		0.2	1
108	11/17/2015 10:45		0.1	0.6
109	11/17/2015 10:46		0.1	0.4
110	11/17/2015 10:47		0.1	0.1
111	11/17/2015 10:48		0.1	0.5
112	11/17/2015 10:49		0.2	0.8
113	11/17/2015 10:50		0.1	0.5
114	11/17/2015 10:51		0.1	0.3
115	11/17/2015 10:52		0.1	0.3
116	11/17/2015 10:53		0.1	0.2
117	11/17/2015 10:54		0.1	0.5
118	11/17/2015 10:55		0.1	0.7
119	11/17/2015 10:56		0.1	0.4
120	11/17/2015 10:57		0.1	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
 User ID: 00000001 Site ID: 00000020
 Data Points: 193 Gas Name: Isobutylene Sample Period: 60 sec
 Last Calibration Time: 11/17/2015 08:36

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	11/17/2015 10:58		0.1	0.5
122	11/17/2015 10:59		0.1	0.1
123	11/17/2015 11:00		0.1	0.4
124	11/17/2015 11:01		0.1	0.7
125	11/17/2015 11:02		0.1	0.3
126	11/17/2015 11:03		0.1	0.5
127	11/17/2015 11:04		0.1	0.7
128	11/17/2015 11:05		0.1	0.6
129	11/17/2015 11:06		0.1	0.4
130	11/17/2015 11:07		0.1	0.7
131	11/17/2015 11:08		0.1	0.7
132	11/17/2015 11:09		0.1	0.3
133	11/17/2015 11:10		0.2	1
134	11/17/2015 11:11		0.2	1.3
135	11/17/2015 11:12		0.2	0.7
136	11/17/2015 11:13		0.1	0.2
137	11/17/2015 11:14		0.2	0.7
138	11/17/2015 11:15		0.3	0.9
139	11/17/2015 11:16		0.1	0.4
140	11/17/2015 11:17		0.1	1.1
141	11/17/2015 11:18		0.1	0.5
142	11/17/2015 11:19		0.1	0.6
143	11/17/2015 11:20		0.1	0.2
144	11/17/2015 11:21		0.3	1.3
145	11/17/2015 11:22		0.1	0.5
146	11/17/2015 11:23		0.1	0.2
147	11/17/2015 11:24		0.1	0.2
148	11/17/2015 11:25		0.1	0.3
149	11/17/2015 11:26		0.1	0.2
150	11/17/2015 11:27		0.1	0.3
151	11/17/2015 11:28		0.2	1.2
152	11/17/2015 11:29		0.1	0.3
153	11/17/2015 11:30		0.1	0.1
154	11/17/2015 11:31		0.1	0.2
155	11/17/2015 11:32		0.1	0.1
156	11/17/2015 11:33		0.1	0.4
157	11/17/2015 11:34		0.1	0.2
158	11/17/2015 11:35		0.1	0.2
159	11/17/2015 11:36		0.1	0.2
160	11/17/2015 11:37		0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 193 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/17/2015 08:36

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=====
Line#  Date Time           Min(ppm)  Avg(ppm)  Max(ppm)
=====
```

161	11/17/2015 11:38		0.2	0.6
162	11/17/2015 11:39		0.2	0.5
163	11/17/2015 11:40		0.1	0.1
164	11/17/2015 11:41		0.1	0.1
165	11/17/2015 11:42		0.1	0.1
166	11/17/2015 11:43		0.1	0.3
167	11/17/2015 11:44		0.2	0.7
168	11/17/2015 11:45		0.1	0.4
169	11/17/2015 11:46		0.1	0.1
170	11/17/2015 11:47		0.1	0.1
171	11/17/2015 11:48		0.2	0.6
172	11/17/2015 11:49		0.1	0.4
173	11/17/2015 11:50		0.1	0.4
174	11/17/2015 11:51		0.1	0.2
175	11/17/2015 11:52		0.1	0.6
176	11/17/2015 11:53		0.1	0.2
177	11/17/2015 11:54		0.2	0.7
178	11/17/2015 11:55		0.1	0.6
179	11/17/2015 11:56		0.1	0.3
180	11/17/2015 11:57		0.1	0.7
181	11/17/2015 11:58		0.2	0.8
182	11/17/2015 11:59		0.2	0.8
183	11/17/2015 12:00		0.1	0.4
184	11/17/2015 12:01		0.1	0.9
185	11/17/2015 12:02		0.1	0.2
186	11/17/2015 12:03		0.1	0.2
187	11/17/2015 12:04		0.1	0.2
188	11/17/2015 12:05		0.1	0.2
189	11/17/2015 12:06		0.1	0.2
190	11/17/2015 12:07		0.1	0.2
191	11/17/2015 12:08		0.1	0.2
192	11/17/2015 12:09		0.1	0.2
193	11/17/2015 12:10		0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 101 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/17/2015 08:36

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
1	11/17/2015 15:16		0	0
2	11/17/2015 15:17		0	0.1
3	11/17/2015 15:18		0	0
4	11/17/2015 15:19		0	0.1
5	11/17/2015 15:20		0	0.1
6	11/17/2015 15:21		0	0.1
7	11/17/2015 15:22		0	0.1
8	11/17/2015 15:23		0	0.1
9	11/17/2015 15:24		0	0.1
10	11/17/2015 15:25		0	0.1
11	11/17/2015 15:26		0	0.1
12	11/17/2015 15:27		0	0.1
13	11/17/2015 15:28		0	0.1
14	11/17/2015 15:29		0	0.1
15	11/17/2015 15:30		0	0.1
16	11/17/2015 15:31		0.1	0.3
17	11/17/2015 15:32		0	0.1
18	11/17/2015 15:33		0	0.1
19	11/17/2015 15:34		0	0.1
20	11/17/2015 15:35		0.1	0.1
21	11/17/2015 15:36		0	0.1
22	11/17/2015 15:37		0.1	0.1
23	11/17/2015 15:38		0.1	0.1
24	11/17/2015 15:39		0.1	0.1
25	11/17/2015 15:40		0.1	0.1
26	11/17/2015 15:41		0.1	0.1
27	11/17/2015 15:42		0.1	0.1
28	11/17/2015 15:43		0.1	0.6
29	11/17/2015 15:44		0.1	0.2
30	11/17/2015 15:45		0.1	0.7
31	11/17/2015 15:46		0.1	0.1
32	11/17/2015 15:47		0.1	0.1
33	11/17/2015 15:48		0.1	0.1
34	11/17/2015 15:49		0.1	0.1
35	11/17/2015 15:50		0.1	0.3
36	11/17/2015 15:51		0.1	0.2
37	11/17/2015 15:52		0.1	0.1
38	11/17/2015 15:53		0.1	0.1
39	11/17/2015 15:54		0.1	0.1
40	11/17/2015 15:55		0.1	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 101 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/17/2015 08:36

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
41	11/17/2015 15:56		0.1	0.3
42	11/17/2015 15:57		0.1	0.1
43	11/17/2015 15:58		0.1	0.3
44	11/17/2015 15:59		0.1	0.1
45	11/17/2015 16:00		0.1	0.1
46	11/17/2015 16:01		0.1	0.1
47	11/17/2015 16:02		0.1	0.1
48	11/17/2015 16:03		0.1	0.1
49	11/17/2015 16:04		0.1	0.1
50	11/17/2015 16:05		0.1	0.1
51	11/17/2015 16:06		0.1	0.1
52	11/17/2015 16:07		0.1	0.1
53	11/17/2015 16:08		0.1	0.1
54	11/17/2015 16:09		0.1	0.1
55	11/17/2015 16:10		0.1	0.1
56	11/17/2015 16:11		0.1	0.1
57	11/17/2015 16:12		0.1	0.1
58	11/17/2015 16:13		0.1	1
59	11/17/2015 16:14		0.1	0.2
60	11/17/2015 16:15		0.1	0.1
61	11/17/2015 16:16		0.1	0.1
62	11/17/2015 16:17		0.1	0.1
63	11/17/2015 16:18		0.1	0.1
64	11/17/2015 16:19		0.1	0.1
65	11/17/2015 16:20		0.1	0.1
66	11/17/2015 16:21		0.1	0.1
67	11/17/2015 16:22		0.1	0.1
68	11/17/2015 16:23		0.1	0.1
69	11/17/2015 16:24		0.1	0.1
70	11/17/2015 16:25		0.1	0.1
71	11/17/2015 16:26		0.1	0.1
72	11/17/2015 16:27		0.1	0.1
73	11/17/2015 16:28		0.1	0.1
74	11/17/2015 16:29		0.1	0.1
75	11/17/2015 16:30		0.1	0.1
76	11/17/2015 16:31		0.1	0.1
77	11/17/2015 16:32		0.1	0.1
78	11/17/2015 16:33		0.1	0.4
79	11/17/2015 16:34		0.1	0.2
80	11/17/2015 16:35		0.1	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 101 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/17/2015 08:36

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Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
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=====

81	11/17/2015 16:36		0.1	0.2
82	11/17/2015 16:37		0.1	0.2
83	11/17/2015 16:38		0.1	0.1
84	11/17/2015 16:39		0.1	0.1
85	11/17/2015 16:40		0.1	0.1
86	11/17/2015 16:41		0.1	0.1
87	11/17/2015 16:42		0.1	0.1
88	11/17/2015 16:43		0.1	0.1
89	11/17/2015 16:44		0.1	0.1
90	11/17/2015 16:45		0.1	0.1
91	11/17/2015 16:46		0.1	0.1
92	11/17/2015 16:47		0.1	0.1
93	11/17/2015 16:48		0.1	0.1
94	11/17/2015 16:49		0.1	0.2
95	11/17/2015 16:50		0.1	0.1
96	11/17/2015 16:51		0.1	0.1
97	11/17/2015 16:52		0.1	0.1
98	11/17/2015 16:53		0.1	0.1
99	11/17/2015 16:54		0.1	0.1
100	11/17/2015 16:55		0.1	0.1
101	11/17/2015 16:56		0.1	2.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 97 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/18/2015 07:33

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Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
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=====

1	11/18/2015 7:42		0	0.1
2	11/18/2015 7:43		0	0.1
3	11/18/2015 7:44		0	0
4	11/18/2015 7:45		0	0
5	11/18/2015 7:46		0	0.4
6	11/18/2015 7:47		0	0
7	11/18/2015 7:48		0	0
8	11/18/2015 7:49		0	0.1
9	11/18/2015 7:50		0	0
10	11/18/2015 7:51		0	0
11	11/18/2015 7:52		0	0
12	11/18/2015 7:53		0	0.8
13	11/18/2015 7:54		0	0.1
14	11/18/2015 7:55		0	0.4
15	11/18/2015 7:56		0	0.1
16	11/18/2015 7:57		0	0.2
17	11/18/2015 7:58		0	0.1
18	11/18/2015 7:59		0	0.1
19	11/18/2015 8:00		0	0.1
20	11/18/2015 8:01		0	0.2
21	11/18/2015 8:02		0.1	0.5
22	11/18/2015 8:03		0.1	0.1
23	11/18/2015 8:04		0.1	0.1
24	11/18/2015 8:05		0.1	0.1
25	11/18/2015 8:06		0.1	0.1
26	11/18/2015 8:07		0.1	0.1
27	11/18/2015 8:08		0.1	0.1
28	11/18/2015 8:09		0.1	0.1
29	11/18/2015 8:10		0.1	0.1
30	11/18/2015 8:11		0.1	0.1
31	11/18/2015 8:12		0.1	0.1
32	11/18/2015 8:13		0.1	0.3
33	11/18/2015 8:14		0.1	0.1
34	11/18/2015 8:15		0.1	0.1
35	11/18/2015 8:16		0.1	0.1
36	11/18/2015 8:17		0.1	0.1
37	11/18/2015 8:18		0.1	0.1
38	11/18/2015 8:19		0.1	0.6
39	11/18/2015 8:20		0.1	0.3
40	11/18/2015 8:21		0.1	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 97 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/18/2015 07:33

=====

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
-------	-----------	----------	----------	----------

=====

41	11/18/2015 8:22		0.1	0.1
42	11/18/2015 8:23		0.1	0.1
43	11/18/2015 8:24		0.1	0.2
44	11/18/2015 8:25		0.1	0.1
45	11/18/2015 8:26		0.1	0.1
46	11/18/2015 8:27		0.1	0.1
47	11/18/2015 8:28		0.1	0.1
48	11/18/2015 8:29		0.1	0.1
49	11/18/2015 8:30		0.1	0.1
50	11/18/2015 8:31		0.1	0.1
51	11/18/2015 8:32		0.1	0.1
52	11/18/2015 8:33		0.1	0.1
53	11/18/2015 8:34		0.1	0.1
54	11/18/2015 8:35		0.1	0.1
55	11/18/2015 8:36		0.1	0.1
56	11/18/2015 8:37		0.1	0.1
57	11/18/2015 8:38		0.1	0.1
58	11/18/2015 8:39		0.1	0.3
59	11/18/2015 8:40		0.1	0.1
60	11/18/2015 8:41		0.1	0.1
61	11/18/2015 8:42		0.1	0.2
62	11/18/2015 8:43		0.1	0.5
63	11/18/2015 8:44		0.1	0.6
64	11/18/2015 8:45		0.1	0.1
65	11/18/2015 8:46		0.1	0.1
66	11/18/2015 8:47		0.1	0.1
67	11/18/2015 8:48		0.1	0.1
68	11/18/2015 8:49		0.1	0.4
69	11/18/2015 8:50		0.1	0.1
70	11/18/2015 8:51		0.1	0.1
71	11/18/2015 8:52		0.1	0.1
72	11/18/2015 8:53		0.1	0.1
73	11/18/2015 8:54		0.1	0.1
74	11/18/2015 8:55		0.1	0.3
75	11/18/2015 8:56		0.1	0.1
76	11/18/2015 8:57		0.1	0.1
77	11/18/2015 8:58		0.1	0.2
78	11/18/2015 8:59		0.1	0.1
79	11/18/2015 9:00		0.1	0.1
80	11/18/2015 9:01		0.1	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 97 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/18/2015 07:33

```
=====
Line#   Date Time           Min(ppm)  Avg(ppm)  Max(ppm)
=====
```

81	11/18/2015 9:02		0.1	0.1
82	11/18/2015 9:03		0.1	0.1
83	11/18/2015 9:04		0.1	0.3
84	11/18/2015 9:05		0.1	0.2
85	11/18/2015 9:06		0.1	0.1
86	11/18/2015 9:07		0.1	0.1
87	11/18/2015 9:08		0.1	0.2
88	11/18/2015 9:09		0.1	0.1
89	11/18/2015 9:10		0.1	0.1
90	11/18/2015 9:11		0.1	0.5
91	11/18/2015 9:12		0.1	0.1
92	11/18/2015 9:13		0.1	0.1
93	11/18/2015 9:14		0.1	0.1
94	11/18/2015 9:15		0.1	0.1
95	11/18/2015 9:16		0.1	0.1
96	11/18/2015 9:17		0.1	0.1
97	11/18/2015 9:18		0.1	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 165 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/18/2015 07:33

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
1	11/18/2015 14:16		0	0.3
2	11/18/2015 14:17		0.1	0.4
3	11/18/2015 14:18		0	0.1
4	11/18/2015 14:19		0	0.1
5	11/18/2015 14:20		0	0.1
6	11/18/2015 14:21		0	0.4
7	11/18/2015 14:22		0	0.1
8	11/18/2015 14:23		0	0.3
9	11/18/2015 14:24		0	0.2
10	11/18/2015 14:25		0	0.2
11	11/18/2015 14:26		0	0.1
12	11/18/2015 14:27		0.1	0.1
13	11/18/2015 14:28		0.1	0.1
14	11/18/2015 14:29		0.1	0.2
15	11/18/2015 14:30		0.1	0.1
16	11/18/2015 14:31		0.1	0.1
17	11/18/2015 14:32		0.1	0.1
18	11/18/2015 14:33		0.1	0.1
19	11/18/2015 14:34		0.1	0.1
20	11/18/2015 14:35		0.1	0.1
21	11/18/2015 14:36		0.1	0.1
22	11/18/2015 14:37		0.1	0.1
23	11/18/2015 14:38		0.1	0.1
24	11/18/2015 14:39		0.1	0.6
25	11/18/2015 14:40		0.1	0.2
26	11/18/2015 14:41		0.1	0.3
27	11/18/2015 14:42		0.1	0.2
28	11/18/2015 14:43		0.1	0.1
29	11/18/2015 14:44		0.1	0.3
30	11/18/2015 14:45		0.1	0.4
31	11/18/2015 14:46		0.1	0.2
32	11/18/2015 14:47		0.1	0.6
33	11/18/2015 14:48		0.1	0.5
34	11/18/2015 14:49		0.4	3.4
35	11/18/2015 14:50		0.1	0.4
36	11/18/2015 14:51		0.1	0.4
37	11/18/2015 14:52		0.1	0.2
38	11/18/2015 14:53		0.1	0.2
39	11/18/2015 14:54		0.1	0.6
40	11/18/2015 14:55		0.1	0.9

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 165 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/18/2015 07:33

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
41	11/18/2015 14:56		0.1	0.2
42	11/18/2015 14:57		0.1	0.1
43	11/18/2015 14:58		0.1	0.5
44	11/18/2015 14:59		0.1	0.2
45	11/18/2015 15:00		0.1	0.2
46	11/18/2015 15:01		0.1	0.2
47	11/18/2015 15:02		0.1	0.5
48	11/18/2015 15:03		0.1	0.8
49	11/18/2015 15:04		0.1	0.2
50	11/18/2015 15:05		0.1	0.3
51	11/18/2015 15:06		0.1	0.3
52	11/18/2015 15:07		0.2	1
53	11/18/2015 15:08		0.1	0.2
54	11/18/2015 15:09		0.1	0.6
55	11/18/2015 15:10		0.1	0.2
56	11/18/2015 15:11		0.1	0.6
57	11/18/2015 15:12		0.1	0.2
58	11/18/2015 15:13		0.1	0.2
59	11/18/2015 15:14		0.1	0.2
60	11/18/2015 15:15		0.1	0.2
61	11/18/2015 15:16		0.1	0.8
62	11/18/2015 15:17		0.1	0.2
63	11/18/2015 15:18		0.2	0.7
64	11/18/2015 15:19		0.1	0.4
65	11/18/2015 15:20		0.2	1
66	11/18/2015 15:21		0.2	1.2
67	11/18/2015 15:22		0.2	0.5
68	11/18/2015 15:23		0.2	0.6
69	11/18/2015 15:24		0.1	0.3
70	11/18/2015 15:25		0.2	0.5
71	11/18/2015 15:26		0.2	0.4
72	11/18/2015 15:27		0.2	0.3
73	11/18/2015 15:28		0.1	0.3
74	11/18/2015 15:29		0.2	0.7
75	11/18/2015 15:30		0.2	0.6
76	11/18/2015 15:31		0.2	0.3
77	11/18/2015 15:32		0.2	0.8
78	11/18/2015 15:33		0.2	1.1
79	11/18/2015 15:34		0.2	0.2
80	11/18/2015 15:35		0.2	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 165 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/18/2015 07:33

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
81	11/18/2015 15:36		0.2	0.5
82	11/18/2015 15:37		0.1	0.2
83	11/18/2015 15:38		0.2	0.2
84	11/18/2015 15:39		0.2	0.2
85	11/18/2015 15:40		0.2	0.2
86	11/18/2015 15:41		0.1	0.2
87	11/18/2015 15:42		0.1	0.2
88	11/18/2015 15:43		0.1	0.2
89	11/18/2015 15:44		0.1	0.2
90	11/18/2015 15:45		0.2	0.2
91	11/18/2015 15:46		0.2	0.2
92	11/18/2015 15:47		0.2	0.2
93	11/18/2015 15:48		0.1	0.2
94	11/18/2015 15:49		0.2	0.2
95	11/18/2015 15:50		0.2	0.9
96	11/18/2015 15:51		0.2	0.6
97	11/18/2015 15:52		0.2	0.3
98	11/18/2015 15:53		0.2	0.2
99	11/18/2015 15:54		0.2	0.2
100	11/18/2015 15:55		0.1	0.2
101	11/18/2015 15:56		0.2	0.2
102	11/18/2015 15:57		0.1	0.2
103	11/18/2015 15:58		0.2	0.8
104	11/18/2015 15:59		0.2	0.2
105	11/18/2015 16:00		0.2	0.2
106	11/18/2015 16:01		0.2	0.2
107	11/18/2015 16:02		0.2	0.2
108	11/18/2015 16:03		0.1	0.2
109	11/18/2015 16:04		0.1	0.2
110	11/18/2015 16:05		0.2	0.3
111	11/18/2015 16:06		0.1	0.2
112	11/18/2015 16:07		0.2	2
113	11/18/2015 16:08		0.3	1.6
114	11/18/2015 16:09		0.3	2.3
115	11/18/2015 16:10		0.2	0.2
116	11/18/2015 16:11		0.2	1.6
117	11/18/2015 16:12		0.2	0.5
118	11/18/2015 16:13		0.2	0.2
119	11/18/2015 16:14		0.2	1.1
120	11/18/2015 16:15		0.2	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 165 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/18/2015 07:33

=====				
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
=====				
121	11/18/2015 16:16		0.2	0.5
122	11/18/2015 16:17		0.2	0.4
123	11/18/2015 16:18		0.2	0.3
124	11/18/2015 16:19		0.2	0.5
125	11/18/2015 16:20		0.2	1
126	11/18/2015 16:21		0.2	1.2
127	11/18/2015 16:22		0.2	0.2
128	11/18/2015 16:23		0.2	0.2
129	11/18/2015 16:24		0.2	0.7
130	11/18/2015 16:25		0.2	0.2
131	11/18/2015 16:26		0.2	0.5
132	11/18/2015 16:27		0.2	0.8
133	11/18/2015 16:28		0.2	0.7
134	11/18/2015 16:29		0.2	1.3
135	11/18/2015 16:30		0.2	1
136	11/18/2015 16:31		0.3	2.1
137	11/18/2015 16:32		0.2	0.4
138	11/18/2015 16:33		0.2	0.4
139	11/18/2015 16:34		0.2	0.3
140	11/18/2015 16:35		0.2	0.3
141	11/18/2015 16:36		0.2	0.4
142	11/18/2015 16:37		0.2	0.3
143	11/18/2015 16:38		0.2	0.5
144	11/18/2015 16:39		0.2	1
145	11/18/2015 16:40		0.2	0.4
146	11/18/2015 16:41		0.2	0.6
147	11/18/2015 16:42		0.2	0.5
148	11/18/2015 16:43		0.2	0.9
149	11/18/2015 16:44		0.2	0.3
150	11/18/2015 16:45		0.2	0.4
151	11/18/2015 16:46		0.2	0.5
152	11/18/2015 16:47		0.2	0.5
153	11/18/2015 16:48		0.2	0.4
154	11/18/2015 16:49		0.2	0.4
155	11/18/2015 16:50		0.2	0.3
156	11/18/2015 16:51		0.2	0.3
157	11/18/2015 16:52		0.2	0.8
158	11/18/2015 16:53		0.2	0.2
159	11/18/2015 16:54		0.2	0.4
160	11/18/2015 16:55		0.2	1.7

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 165 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/18/2015 07:33

```
=====
Line#  Date Time           Min(ppm)  Avg(ppm)  Max(ppm)
=====
161    11/18/2015 16:56           0.2      0.5
162    11/18/2015 16:57           0.2      1.3
163    11/18/2015 16:58           0.2      0.5
164    11/18/2015 16:59           0.2      0.2
165    11/18/2015 17:00           0.2      0.3
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 132 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/19/2015 7:26

```
=====
Line#  Date Time      Min(ppm)  Avg(ppm)  Max(ppm)
=====
```

1	11/19/2015 7:57		0	0.1
2	11/19/2015 7:58		0	0.5
3	11/19/2015 7:59		0	0.1
4	11/19/2015 8:00		0	0.1
5	11/19/2015 8:01		0	0.1
6	11/19/2015 8:02		0	0.1
7	11/19/2015 8:03		0.1	1.3
8	11/19/2015 8:04		0.1	1
9	11/19/2015 8:05		0.3	1.8
10	11/19/2015 8:06		0.1	0.2
11	11/19/2015 8:07		0.2	1.1
12	11/19/2015 8:08		0.1	0.9
13	11/19/2015 8:09		0	0.4
14	11/19/2015 8:10		0	0.1
15	11/19/2015 8:11		0.1	0.6
16	11/19/2015 8:12		0.1	0.1
17	11/19/2015 8:13		0.1	0.9
18	11/19/2015 8:14		0	0.1
19	11/19/2015 8:15		0.1	0.2
20	11/19/2015 8:16		0.1	0.3
21	11/19/2015 8:17		0.1	1.2
22	11/19/2015 8:18		0.1	0.3
23	11/19/2015 8:19		0.1	0.2
24	11/19/2015 8:20		0.1	0.1
25	11/19/2015 8:21		0.1	0.3
26	11/19/2015 8:22		0.1	0.3
27	11/19/2015 8:23		0.1	0.2
28	11/19/2015 8:24		0.1	0.1
29	11/19/2015 8:25		0.1	0.4
30	11/19/2015 8:26		0.1	0.1
31	11/19/2015 8:27		0.1	0.9
32	11/19/2015 8:28		0.1	0.1
33	11/19/2015 8:29		0.1	0.9
34	11/19/2015 8:30		0.1	0.8
35	11/19/2015 8:31		0.1	0.1
36	11/19/2015 8:32		0.1	0.2
37	11/19/2015 8:33		0.1	0.1
38	11/19/2015 8:34		0.1	0.2
39	11/19/2015 8:35		0.1	0.4
40	11/19/2015 8:36		0.1	0.4

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 132 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/19/2015 7:26

```
=====
Line#  Date Time      Min(ppm)  Avg(ppm)  Max(ppm)
=====
```

41	11/19/2015 8:37		0.1	0.6
42	11/19/2015 8:38		0.1	0.4
43	11/19/2015 8:39		0.1	0.5
44	11/19/2015 8:40		0.1	0.3
45	11/19/2015 8:41		0.1	0.1
46	11/19/2015 8:42		0.1	1.3
47	11/19/2015 8:43		0.1	0.5
48	11/19/2015 8:44		0.1	0.5
49	11/19/2015 8:45		0.1	0.1
50	11/19/2015 8:46		0.1	0.1
51	11/19/2015 8:47		0.1	0.3
52	11/19/2015 8:48		0.1	0.1
53	11/19/2015 8:49		0.5	12.8
54	11/19/2015 8:50		0.1	0.4
55	11/19/2015 8:51		0.1	0.4
56	11/19/2015 8:52		0.1	0.2
57	11/19/2015 8:53		0.1	0.2
58	11/19/2015 8:54		0.1	0.1
59	11/19/2015 8:55		0.1	0.1
60	11/19/2015 8:56		0.1	0.1
61	11/19/2015 8:57		0.1	0.5
62	11/19/2015 8:58		0.1	0.4
63	11/19/2015 8:59		0.1	0.1
64	11/19/2015 9:00		0.1	0.2
65	11/19/2015 9:01		0.1	0.6
66	11/19/2015 9:02		0.1	0.3
67	11/19/2015 9:03		0.1	0.1
68	11/19/2015 9:04		0.1	0.1
69	11/19/2015 9:05		0.1	0.3
70	11/19/2015 9:06		0.1	0.2
71	11/19/2015 9:07		0.1	0.4
72	11/19/2015 9:08		0.1	0.5
73	11/19/2015 9:09		0.1	0.3
74	11/19/2015 9:10		0.1	0.1
75	11/19/2015 9:11		0.1	0.1
76	11/19/2015 9:12		0.1	0.1
77	11/19/2015 9:13		0.1	0.3
78	11/19/2015 9:14		0.1	0.6
79	11/19/2015 9:15		0.1	0.3
80	11/19/2015 9:16		0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 132 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/19/2015 7:26

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
81	11/19/2015 9:17		0.1	0.3
82	11/19/2015 9:18		0.1	0.2
83	11/19/2015 9:19		0.1	1.2
84	11/19/2015 9:20		0.1	0.3
85	11/19/2015 9:21		0.1	0.1
86	11/19/2015 9:22		0.1	0.6
87	11/19/2015 9:23		0.1	0.8
88	11/19/2015 9:24		0.1	0.9
89	11/19/2015 9:25		0.1	0.2
90	11/19/2015 9:26		0.1	0.2
91	11/19/2015 9:27		0.1	0.7
92	11/19/2015 9:28		0.2	1.1
93	11/19/2015 9:29		0.1	0.2
94	11/19/2015 9:30		0.1	0.2
95	11/19/2015 9:31		0.1	0.4
96	11/19/2015 9:32		0.1	0.1
97	11/19/2015 9:33		0.1	0.2
98	11/19/2015 9:34		0.1	0.2
99	11/19/2015 9:35		0.1	0.2
100	11/19/2015 9:36		0.1	0.2
101	11/19/2015 9:37		0.1	0.1
102	11/19/2015 9:38		0.1	0.3
103	11/19/2015 9:39		0.1	0.2
104	11/19/2015 9:40		0.2	1.8
105	11/19/2015 9:41		0.1	0.2
106	11/19/2015 9:42		0.1	0.4
107	11/19/2015 9:43		0.1	0.2
108	11/19/2015 9:44		0.1	0.6
109	11/19/2015 9:45		0.1	0.2
110	11/19/2015 9:46		0.1	0.2
111	11/19/2015 9:47		0.1	0.4
112	11/19/2015 9:48		0.1	0.3
113	11/19/2015 9:49		0.1	0.5
114	11/19/2015 9:50		0.1	0.9
115	11/19/2015 9:51		0.1	0.4
116	11/19/2015 9:52		0.3	2.2
117	11/19/2015 9:53		0.1	0.7
118	11/19/2015 9:54		0.3	2.4
119	11/19/2015 9:55		0.1	0.2
120	11/19/2015 9:56		0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013351
User ID: 00000001 Site ID: 00000020
Data Points: 132 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 11/19/2015 7:26

```
=====
Line#  Date Time      Min(ppm)  Avg(ppm)  Max(ppm)
=====
 121   11/19/2015 9:57           0.1       0.2
 122   11/19/2015 9:58           0.1       0.2
 123   11/19/2015 9:59           0.1       0.2
 124   11/19/2015 10:00          0.1       0.2
 125   11/19/2015 10:01          0.1       0.2
 126   11/19/2015 10:02          0.1       0.2
 127   11/19/2015 10:03          0.1       0.2
 128   11/19/2015 10:04          0.1       0.3
 129   11/19/2015 10:05          0.1       0.2
 130   11/19/2015 10:06          0.1       0.3
 131   11/19/2015 10:07          0.2       0.5
 132   11/19/2015 10:08          0.1       0.2
=====
```

ATTACHMENT 3

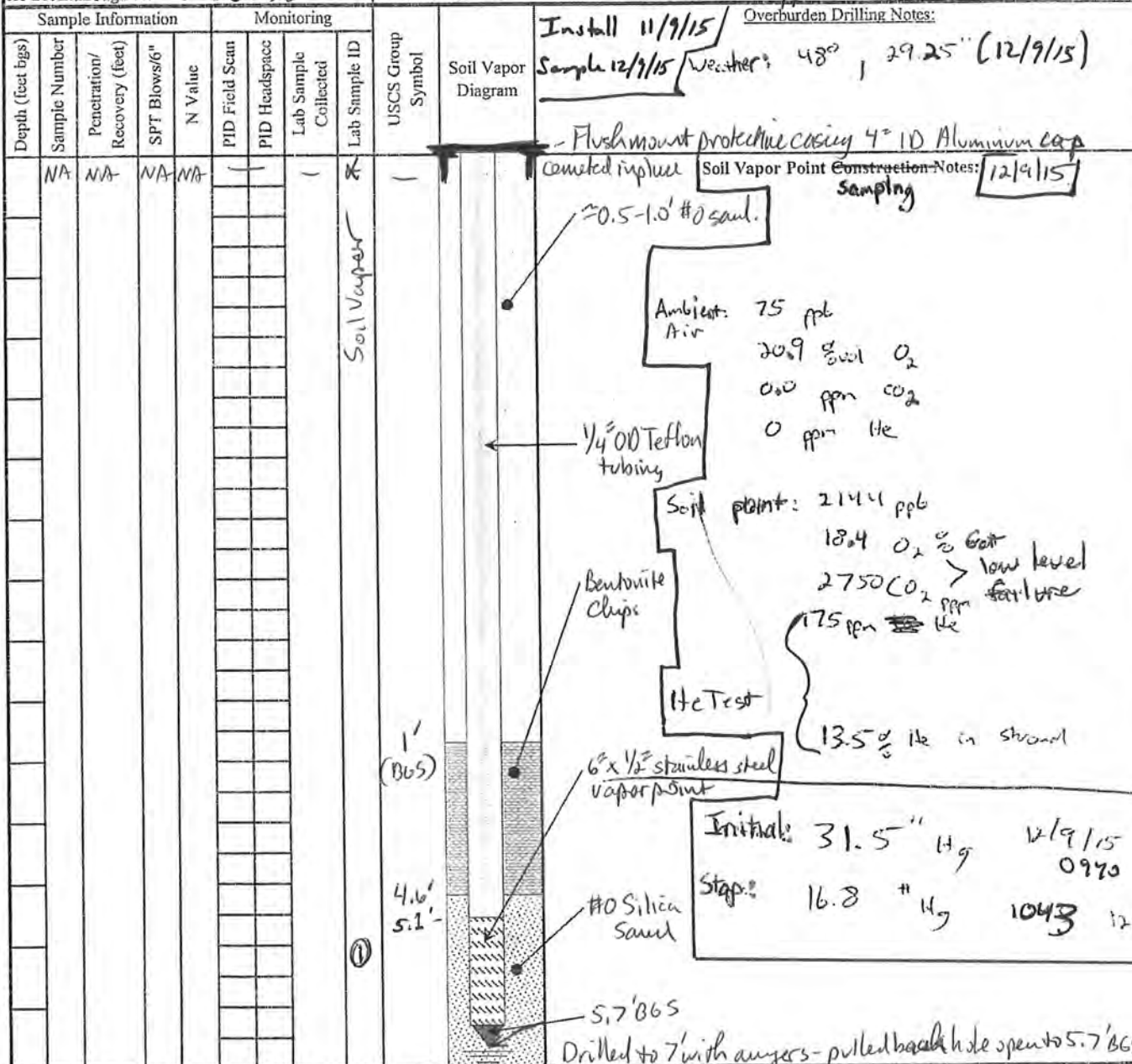
SOIL VAPOR SAMPLE FIELD DATA RECORDS

SOIL VAPOR IMPLANT SAMPLING RECORD



511 Congress Street, Portland Maine 04101

Project Name:	Scobell Chemical - Soil Vapor Investigation	Boring ID:	SUP-12
Project Location:	Rochester, NY / Brighton NY	Page No.	1
Project No.:	3617147328	Client:	NYSDEC
Refusal Depth:	NA	Total Depth:	7' BGS
Soil Drilled:	7'	Method:	HSA
P.I.D (eV):	10.6	Protection Level:	D
Date Started:	11/9/15	Date Completed:	11/9/15
Logged By:	J. Rawcliffe	Checked By:	C. Syler
Reference Elevation:	Casing 429.38' NAVD83	Water Level:	≈ 5.3' BGS
He Breakthrough %:	0.001%	Initial He %:	0
		Final He %:	175 ppm



NOTES: (1) 828076 - SUP 12005
 canister: 366
 Regulator: 125
 12/9/15

SOIL VAPOR IMPLANT SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL VAPOR IMPLANT SAMPLING RECORD



511 Congress Street, Portland Maine 04101

Project Name: Scobell Chemical - Soil Vapor Investigation

Boring ID: SVP-14

Project Location: Rochester, NY / Brighton NY

Page No.

Project No.:	3617147328	Client:	NYSDEC
--------------	------------	---------	--------

of:

Boring Location: Blossom Rd RG+E ROW

Refusal Depth: *NA*

Total Depth: 6' BGS

Bore Hole ID/OD: 22"

Weather: 50°, SWAY 29.89" Hg

Soil Drilled: 6 BBS

Method: Solid drive point

Casing Size: $\approx 2^{\circ} 00$

Subcontractor: Geopac

P.I.D (eV): 10.6

Protection Level: ☐

Sampler: Teflon Tubing

Driller: Steve Laramie

Date Started: 11/19/15

Date Completed: 11/14/15

Sampler ID/OD:	5 / 4
----------------	-------

Rig Type/Model: CME-45C Trailer mount.

Logged By: Jerry Rawcliffe

Checked By: C. Staples

Hammer Wt/Fall: 140lbs/30"

Reference Elevation: 433.83' *Current/Ground.*

Water Level: ≈ 13.1 BGS

Time: 10/10/15 MW-325

Hammer Type: Safety Auto Hammer

He Breakthrough %:

Initial He %:

Final He %: 0

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

Sample Information					Monitoring			USCS Group Symbol	Soil Vapor Diagram	Install = 11/19/15 Sample: 12/9/15 50% sunny, 29.8" Hg (12/9/15) Flush mount 4" ID Aluminum cup.	Overburden Drilling Notes:
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Sample Collected				
1	NA	NA	NA	NA	—	—	Y		—		Soil Vapor Point Construction Notes: Sampling Ambient: PID 152 ppb O ₂ 20.6 % vol CO 0 ppm He 0 ppm Initial: PID - 645 ppb O ₂ - 15.2 % vol CO ₂ - >10000 ppm He - 0 ppm Ben-seal bentonite powder He tests: 0 ppm - sample tube 14.3% - strand Start: Hg 29.5" Time 1035 Stop: Hg 16.8" 2.0" Time 1045 1120 6" stainless steel soil vapor point ~1/2" diameter #0 Silica sand Bottom of soil vapor point = 6' BGS (5.5-6') 1' (0.65) 4.9' 5.5' 6.0'

NOTES: ① ID: 828076-SVP14005 } 12/9/15
canisters 327
regulators 110

FIGURE 4.11

SOIL VAPOR IMPLANT SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL VAPOR IMPLANT SAMPLING RECORD



511 Congress Street, Portland Maine 04101

Project Name: Scobell Chemical - Soil Vapor Investigation Boring ID: **SVP-15**
 Project Location: Rochester, NY / **Brighton, NY** Page No. **1**
 Project No.: 3617147328 Client: NYSDEC of: **1**
 Boring Location: **Soil Brighton Manor** Refusal Depth: **4.6'** Total Depth: **4.6' BGS** Bore Hole ID/OD: **2 2"**
 Weather: **53°F, sunny, 29.89" Hg** Soil Drilled: **4.6'** Method: **Solid Drive point** Casing Size: **2" OD**
 Subcontractor: **Geologic** P.I.D (eV): **10.6** Protection Level: **D** Sampler: **Teflon Tubing**
 Driller: **Steve Hernandez** Date Started: **11/13/15** Date Completed: **11/13/15** Sampler ID/OD: **5/1"**
 Rig Type/Model: **CME-45C Trailer mount** Logged By: **J. Rawcliffe** Checked By: **C. Stabler** Hammer Wt/Fall: **140 lbs/30"**
 Reference Elevation: **436.41' Casing/Ground** Water Level: **26.7' BGS** Time: **18/10/15 MW-335** Hammer Type: **Safety Auto Hammer**
 He Breakthrough %: **0-0** Initial He %: **0** Final He %: **0**

Sample Information					Monitoring			Soil Vapor Diagram	Install. 11/13/15 Sample: 12/9/15	Overburden Drilling Notes: 53°F, sunny, 29.89" Hg (12/9/15)
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Sample Collected			
NA	NA	NA	NA	NA	-	-	-	-	-	- Flush mount 4" ID, Aluminum cap. Soil Vapor Point Construction Notes: 12/9/15 Ambient: PID 180 ppb O ₂ 20.5 % vol CO ₂ 0 ppm He 0 ppm Initial: PID 946 ppb O ₂ 19.4 % vol CO ₂ 5700 ppm He 0 ppm He test: Sample 9 0.0 ppm Standard 17.8 % Start: Hg: 28.5" Time: 1236 6" x 1/2" Stainless steel Soil vapor point Stop: Hg: 3.0" Time: 1322 1.0' (BGS) 3.3' 4.0' 4.5' #05 Silica Sand Bottom of soil vapor probe = 4.5' BGS Refusal with drive point at 4.6' BGS borehole open to 4.5' BGS

NOTES: ① 828076 - SVP15005 (Can 285) Regulator 127 } 12/9/15
 Dup ② 828076 - SVP15005D (Can 1189)

FIGURE 4.11
 SOIL VAPOR IMPLANT SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL VAPOR IMPLANT SAMPLING RECORD



511 Congress Street, Portland Maine 04101

Project Name:	Scobell Chemical - Soil Vapor Investigation	Boring ID:	SVP-16
Project Location:	Rochester, NY / Brighton NY	Page No.	1
Project No.:	3617147328	Client:	NYSDEC
Refusal Depth:	NA	Total Depth:	6.1'
Soil Drilled:	6.1'	Method:	Solid drivepoint
P.I.D (eV):	10.6	Protection Level:	0
Date Started:	11/16/15	Date Completed:	11/16/15
Logged By:	J. Rawcliffe	Checked By:	C. Stuber
Water Level:	211.1' BGS	Time:	12/10/15 MW-345
Initial He %:	0	Final He %:	100 ppm

Sample Information					Monitoring					USCS Group Symbol	Soil Vapor Diagram	Soil Vapor Point Construction Notes:
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Sample Collected	Lab Sample ID				
NA	NA	NA	NA	NA	-	-	NA	-	-	-	Install: 11/16/15 Sample: 12/9/15 53°F, sunny, 29.89" Hg (12/9/15) Overburden Drilling Notes: Soil Vapor Point Construction Notes: 12/9/15 Ambient: PID 75 ppb O₂ 20.6 % CO₂ 0 ppm He 0 ppm Insert: PID - 520 ppb (low flow - pump failure) O₂ - 18.8 % CO₂ - 1250 ppm He - 0 ppm He test: Sample 100 ppm Shroud: 15.4 % Start: Hg 31.0 Time 1306 Stop: Hg 31.0 Time 1408 0.5-1 #10 Silica Sand 1/4" ID Teflon tubing Benzal Powder (Bentonite) 1.0 (BGS) 5.0 5.5' 6.0' 6"x1/8" stainless steel soil vapor point (5.5-6.0) #10 Silica Sand Tip of soil vapor point (6.0' BGS) very tight soil → did not pull swapper	

NOTES: ① Sample ID: 828076 - SVP16005 } Bottom of boring = 6.1' BGS
can ID: 245 } 12/9/15
regulator ID: 177

SOIL VAPOR IMPLANT SAMPLING RECORD



511 Congress Street, Portland Maine 04101

Project Name: Scobell Chemical - Soil Vapor Investigation
 Project Location: Rochester, NY
 Project No.: 3617147328 Client: NYSDEC
 Boring ID: SVP-17
 Page No. 1
 of: 1
 Boring Location: West side Ellison Park Npts
 Weather: 57°F, Mostly cloudy, 48% humidity, 29.86" Hg
 Subcontractor: Geologic
 Driller: Steve Lawrence
 Rig Type/Model: CME-45C Tracer mount
 Reference Elevation: 439.65 Ground/Casing
 He Breakthrough %: 0-0
 Refusal Depth: 5.3'
 Total Depth: 5.3' BGS
 Soil Drilled: 5.3'
 Method: Solid drive point
 P.I.D (eV): 10.6
 Protection Level: D
 Sampler: Teflon Tubing
 Sampler ID/OD: 3/8" / 1/2"
 Date Started: 11/18/15
 Date Completed: 11/18/15
 Logged By: J. Rawcliffe
 Checked By: C. Styles
 Hammer Wt/Fall: 140lb/30"
 Hammer Type: Auto Safety Hammer
 Water Level: 8.4' BGS
 Time: 12:10/15 MW-355
 Initial He %: 0
 Final He %: 0

Sample Information					Monitoring			USCS Group Symbol	Soil Vapor Diagram	Overburden Drilling Notes:	
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Sample Collected			Sampling	Notes
NA	NA	NA	NA	NA	-	-	Soil Vapor	-	-	Install: 11/18/15 Sample = 12/9/15	57°F m→pc cloudy, mostly to partly cloudy; 48% humidity, 29.86" Hg (12/8/15)
										Flush mount casing 4" ID Aluminum Cap	
										Soil Vapor Point Construction Notes: 12/9/15	
										0.5-1' #0 Silica sand	Ambient: PID 24 ppb, O ₂ 20.5 % vol., CO ₂ 0 ppm, He 0 ppm
										Insert: 1/4" teflon tubing	PID 315 ppb, O ₂ 12.2 % vol., CO ₂ >10000 ppm, He 0 ppm
										Benzal Powder (Bentonite)	He test sample = 0 ppm, Shroud: 13.6 %
										1.0' BGS	Start Hg 30.5", Time 1416 12/9/15
										6"x1/8" Stainless steel soil vapor point (4.6-5.1' BGS)	
										Stop: Hg 2.0", Time 1504 12/9/15	
										4.1' BGS	
										4.6' BGS	
										#0 Silica sand	
										Tip of soil vapor point 5.1' BGS	
										5.1' BGS	
										Drilled to 5.3' BGS, Hole open to 5.1' BGS	

NOTES:

Sample ID: 828076-SVP17005 } 12/9/15
 Con 358
 Regulator 176

FIGURE 4.11

SOIL VAPOR IMPLANT SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL VAPOR IMPLANT SAMPLING RECORD

 MACTEC 511 Congress Street, Portland Maine 04101	Project Name: Scobell Chemical - Soil Vapor Investigation		Boring ID: SVP-18
	Project Location: Rochester, NY		Page No. 1
Boring Location: SW-Ellison Park Apts.	Project No.: 3617147328	Client: NYSDEC	of: 1
Weather: 57°F 48% 29.84" Hg	Refusal Depth: NA	Total Depth: 5.5'	Bore Hole ID/OD: 2" ID
Subcontractor: Geologic	Soil Drilled: 5.5'	Method: Solid Drive Point	Casing Size: 2" OD
Driller: Stonehenge Mees	P.I.D (eV): 10.6	Protection Level: D	Sampler: Stainless Steel point Teflon tubing
Rig Type/Model: CME-45C Trailer mount	Date Started: 11/17/15	Date Completed: 11/17/15	Sampler ID/OD: 3/8"
Reference Elevation: 440.76' Ground/Casing	Logged By: Jerry Rowcliffe	Checked By: C. Stager	Hammer Wt/Fall: 140 lbs/30"
He Breakthrough %: 0.0	Water Level: 8.0' BGS	Time: 12/13/15 MW-365	Hammer Type: Autosolch Hammer
	Initial He %: 0	Final He %: 0	

Sample Information					Monitoring					Soil Vapor Diagram	Overburden Drilling Notes:
Depth (feet bgs)	Sample Number	Penetration/Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Sample Collected	Lab Sample ID	USCS Group Symbol		
NA	NA	NA	NA	NA	1	1	1	1	1	Initial: 11/17/15 Sample: 12/9/15 57°F 48% 29.84" Hg (12/9/15) 1st try cloudy! Flush mount causing 4" ID Aluminum cup Soil Vapor Point Construction Notes: 12/9/15 0.5' 1" HD Silica Sand Ambient: PID 322 ppb O ₂ 20.6 % vol CO ₂ 0 ppm He 0 ppm Initial: PID 522 ppb O ₂ 14.7 % vol CO ₂ >10000 ppm He 0 ppm Test: Sample: 0 ppm Standard: 13.2 % Start Hg 30.0" 12/9/15 Time: 1457 Hg: 2.8" 12/9/15 Time: 1539 6 x 1/8 stainless steel soil vapor point (5.0-5.5' bgs) #0 Silica sand Tip of soil vapor point Borehole drilled to 5.5' BGS and stayed open	
1.0'											
4.5'											
5.0'											
5.5'											

NOTES: ① 828076 - SVP18005 } 12/9/15
 Can ID: 347
 Reg ID: 180

FIGURE 4.11
 SOIL VAPOR IMPLANT SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ATTACHMENT 4

SURVEY DATA

SCOBELL CHEMICAL SITE

CITY OF ROCHESTER & TOWN OF BRIGHTON, MONROE COUNTY, NEW YORK

HORZ. DATUM: NAD 83(2011) - NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE

VERT. DATUM: NAVD 88

UNITS: U.S. SURVEY FEET

POINT ID	NORTHING	EASTING	GROUND ELEV.	CASING ELEV.	RISER ELEV.
IW-1	1147311.5	1424983.8	452.70	452.70	452.55
IW-2	1147339.1	1424994.5	452.56	452.56	452.25
IW-3	1147366.8	1425004.9	452.09	452.09	451.84
IW-4	1147299.3	1425011.6	453.01	453.01	452.69
IW-5	1147324.8	1425023.0	452.99	452.99	452.74
IW-6	1147355.4	1425033.3	452.47	452.47	452.23
IW-8	1147316.4	1425051.2	453.22	453.22	453.09
IW-9	1147343.1	1425060.9	452.42	452.42	452.17
MW-30S	1149065.3	1426487.3	429.01	431.33	430.86
MW-31S	1149180.1	1425983.8	435.56	435.56	435.21
MW-32D	1149182.0	1425796.8	433.58	433.58	433.24
MW-32S	1149182.0	1425796.8	433.58	433.58	433.24
MW-33S	1148937.0	1425428.7	436.00	436.00	435.51
MW-34S	1149125.1	1424929.3	439.65	439.65	439.25
MW-35S	1148780.6	1424845.5	439.84	439.84	439.50
MW-36S	1148397.5	1424648.5	440.78	440.78	440.23
SVP-12	1149061.0	1426485.4	429.38	429.38	N/A
SVP-13	1149180.1	1425978.2	435.66	435.66	N/A
SVP-14	1149183.5	1425785.9	433.83	433.83	N/A
SVP-15	1148936.8	1425420.2	436.41	436.41	N/A
SVP-16	1149121.1	1424930.1	439.67	439.67	N/A
SVP-17	1148782.7	1424840.2	439.65	439.65	N/A
SVP-18	1148400.5	1424649.8	440.76	440.76	N/A

ATTACHMENT 5

DATA USABILITY SUMMARY REPORTS AND COMPLETE ANALYTICAL RESULTS

**DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK**

1.0 INTRODUCTION

Air samples were collected at the Scobell Chemical site in December 2015 and submitted to Centek Laboratories located in Syracuse, New York, for analysis. Samples were analyzed by the following method:

- Volatile organic compounds (VOCs) by USEPA Method TO-15

Results were reported in the following sample delivery groups (SDGs):

- C1512036
- C1512040
- C1512042

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010). Sample event information included in this DUSR is presented in the following tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

Laboratory deliverables included:

- Category B deliverable as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the following evaluations. A table of project control limits is presented in Attachment A. DUSR review checklists and applicable laboratory QC summary forms are included in Attachment B to document DUSR checks and QC outliers associated with qualification actions.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Samples (LCS)
- Surrogate Spikes (if applicable)
- Field Duplicates (none collected)
- Target Analyte Identification and Quantitation
- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

Data qualification actions are applied when necessary based on general procedures in USEPA validation guidelines (USEPA, 2006) and the judgment of the project chemist. The following laboratory or data review qualifiers are used in the final data presentation:

J = concentration is estimated

U = target analyte is not detected above the reported detection limit

UJ = the target compound was not detected and the reporting limit is considered to be estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 POTENTIAL DATA LIMITATIONS

Based on the DUSR review the majority of data meet the data quality objectives; however, the following potential limitations were identified:

- Results for Benzyl Chloride in a subset of samples in SDGs C1512040 and C1512042 are qualified estimated (UJ) based on a low LCS recovery. Qualified results are summarized on Table 3.
- Relative percent differences between sample results and associated field duplicate results in SDGs C1512036 and C1512042 were greater than the limit of 50 and/or inconsistent results were observed for a subset of analytes. Positive and non-detected results for affected analytes were qualified estimated (J/UJ). Qualified results are summarized on Table 3.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Additional observations and quality control exceedances not specifically addressed above (Section 2.0) or included in Table 3 are summarized below. Unless presented in Table 3, sample results are interpreted to be usable as reported by the laboratory.

Instrument Continuing Calibration

The laboratory narrative noted the continuing calibration %D for methyl butyl ketone (2-hexanone) was outside control limit of 30 and indicated a potential high bias. No laboratory qualifiers associated with calibration were reported with sample data and sample results were reported unqualified. 2-Hexanone is not a primary site contaminant at the site and the calibration outlier is not interpreted to be a significant data limitation.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

NYSDEC Scobell Chemical Site

NYSDEC Site No. 828076

MACTEC Engineering and Consulting, P.C.

Project No. 3617147328.05

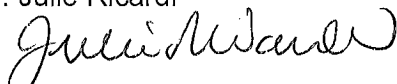
USEPA Region 2, 2006. "Validating Volatile Organic Analysis of Ambient Air in Canister by Method TO-15"; SOP # HW-31, Revision 4, Hazardous Waste Support Branch; October 2006.

Data Validator: Willie Stone



January 14, 2016

Reviewed by: Julie Ricardi



January 14, 2016

TABLE 1
SUMMARY OF SAMPLES AND ANALYTICAL METHODS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG	Location	Sample ID	Sample Date	Method Class		VOCs CT-TCE-VC Total Param_Count	VOCs TO15 Total Param_Count
				Media	Analysis Method Fraction Qc Code		
C1512036	AA-001	828076-AA-001-01	12/9/2015	AIR	FS	63	
C1512036	AA-002	828076-AA-002-01	12/9/2015	AIR	FS	63	
C1512036	P-003-B1-01	828076-IA-003B1-01	12/9/2015	AIR	FS	63	
C1512036	P-003-B1-02	828076-IA-003B1-02	12/9/2015	AIR	FS	63	
C1512036	P-003-B10-03	828076-IA-003B10-03	12/9/2015	AIR	FS	63	
C1512036	P-003-B10-04	828076-IA-003B10-04	12/9/2015	AIR	FS	63	
C1512036	P-003-B10-04	828076-IA-003B10-04D	12/9/2015	AIR	FD	63	
C1512036	P-003-B2-01	828076-IA-003B2-01	12/9/2015	AIR	FS	63	
C1512036	P-003-B2-02	828076-IA-003B2-02	12/9/2015	AIR	FS	63	
C1512036	P-003-B2-03	828076-IA-003B2-03	12/9/2015	AIR	FS	63	
C1512036	SVP-12	828076-SVP12005	12/9/2015	SV	FS		63
C1512036	SVP-13	828076-SVP13005	12/9/2015	SV	FS		63
C1512036	SVP-14	828076-SVP14005	12/9/2015	SV	FS		63
C1512036	SVP-15	828076-SVP15005	12/9/2015	SV	FS		63
C1512036	SVP-15	828076-SVP15005D	12/9/2015	SV	FD		63
C1512036	SVP-17	828076-SVP17005	12/9/2015	SV	FS		63
C1512036	SVP-18	828076-SVP18005	12/9/2015	SV	FS		63
C1512040	AA-003	828076-AA-003-01	12/10/2015	AIR	FS	63	
C1512040	AA-004	828076-AA-004-01	12/10/2015	AIR	FS	63	
C1512040	AA-005	828076-AA-005-01	12/10/2015	AIR	FS	63	
C1512040	P-003-B3-01	828076-IA-003B3-01	12/10/2015	AIR	FS	63	
C1512040	P-003-B3-01	828076-SS-003B3-01	12/10/2015	SV	FS		63
C1512040	P-003-B3-02	828076-IA-003B3-02	12/10/2015	AIR	FS	63	
C1512040	P-003-B3-02	828076-SS-003B3-02	12/10/2015	SV	FS		63
C1512040	P-003-B4-02	828076-IA-003B4-02	12/10/2015	AIR	FS	63	
C1512040	P-003-B4-02	828076-SS-003B4-02	12/10/2015	SV	FS		63

1 of 2

TABLE 1
SUMMARY OF SAMPLES AND ANALYTICAL METHODS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG	Location	Sample ID	Sample Date	Method Class		VOCs CT-TCE-VC Total Param_Count	VOCs TO15 Total Param_Count
				Media	Analysis Method Fraction Qc Code		
C1512040	P-003-B5-01	828076-IA-003B5-01	12/10/2015	AIR	FS	63	
C1512040	P-003-B5-01	828076-SS-003B5-01R	12/10/2015	SV	FS		63
C1512040	P-003-B5-02	828076-IA-003B5-02	12/10/2015	AIR	FS	63	
C1512040	P-003-B5-02	828076-SS-003B5-02	12/10/2015	SV	FS		63
C1512040	P-003-B8-01	828076-IA-003B8-01	12/10/2015	AIR	FS	63	
C1512040	P-003-B8-01	828076-SS-003B8-01	12/10/2015	SV	FS		63
C1512040	P-003-B8-02	828076-IA-003B8-02	12/10/2015	AIR	FS	63	
C1512040	P-003-B8-02	828076-SS-003B8-02	12/10/2015	SV	FS		63
C1512042	AA-006	828076-AA-006-01	12/11/2015	AIR	FS	63	
C1512042	P-003-B4-01	828076-IA-003B4-01R	12/11/2015	AIR	FS	63	
C1512042	P-003-B4-01	828076-SS-003B4-01R	12/11/2015	SV	FS		63
C1512042	P-003-B4-01	828076-SS-003B4-01RD	12/11/2015	SV	FD		63
C1512042	P-003-B6-01	828076-IA-003B6-01	12/11/2015	AIR	FS	63	
C1512042	P-003-B6-01	828076-SS-003B6-01	12/11/2015	SV	FS		63
C1512042	P-003-B6-02	828076-IA-003B6-02	12/11/2015	AIR	FS	63	
C1512042	P-003-B6-02	828076-SS-003B6-02	12/11/2015	SV	FS		63
C1512042	P-003-B9-01	828076-IA-003B9-01	12/11/2015	AIR	FS	63	
C1512042	P-003-B9-01	828076-SS-003B9-01	12/11/2015	SV	FS		63
C1512042	P-003-B9-02	828076-IA-003B9-02	12/11/2015	AIR	FS	63	
C1512042	P-003-B9-02	828076-SS-003B9-02	12/11/2015	SV	FS		63

Notes:

FS = Field Sample

FD = Field Duplicate

SV = Soil Vapor

Param_Count = number of target analytes reported

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG				C1512036		C1512036		C1512036	
Location				AA-001		AA-002		P-003-B1-01	
Sample Date				12/9/2015		12/9/2015		12/9/2015	
Sample ID				828076-AA-001-01		828076-AA-002-01		828076-IA-003B1-01	
Qc Code				FS		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	1,1,1-Trichloroethane	ug/m3	0.82 U		0.82 U		0.82 U	
VOCs	T	1,1,2,2-Tetrachloroethane	ug/m3	1 U		1 U		1 U	
VOCs	T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.1 U		1.1 U		1.1 U	
VOCs	T	1,1,2-Trichloroethane	ug/m3	0.82 U		0.82 U		0.82 U	
VOCs	T	1,1-Dichloroethane	ug/m3	0.61 U		0.61 U		0.61 U	
VOCs	T	1,1-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
VOCs	T	1,2,4-Trichlorobenzene	ug/m3	1.1 U		1.1 U		1.1 U	
VOCs	T	1,2,4-Trimethylbenzene	ug/m3	0.64 J		0.74 U		0.74	
VOCs	T	1,2-Dibromoethane	ug/m3	1.2 U		1.2 U		1.2 U	
VOCs	T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1 U		1 U		1 U	
VOCs	T	1,2-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	1,2-Dichloroethane	ug/m3	0.61 U		0.61 U		0.61 U	
VOCs	T	1,2-Dichloropropane	ug/m3	0.69 U		0.69 U		0.69 U	
VOCs	T	1,3,5-Trimethylbenzene	ug/m3	0.74 U		0.74 U		0.64 J	
VOCs	T	1,3-Butadiene	ug/m3	0.33 U		0.33 U		0.33 U	
VOCs	T	1,3-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	1,4-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	1,4-Dioxane	ug/m3	1.1 U		1.1 U		1.1 U	
VOCs	T	2-Butanone	ug/m3	2.4		0.97		2.2	
VOCs	T	2-Hexanone	ug/m3	1.2 U		1.2 U		1.2 U	
VOCs	T	2-Propanol	ug/m3	2.5		1.3		9.6	
VOCs	T	4-Ethyltoluene	ug/m3	0.74 U		0.74 U		0.74 U	
VOCs	T	4-Methyl-2-pentanone	ug/m3	1.2 U		1.2 U		1.2 U	
VOCs	T	Acetone	ug/m3	10		13		13	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG				C1512036		C1512036		C1512036	
Location				AA-001		AA-002		P-003-B1-01	
Sample Date				12/9/2015		12/9/2015		12/9/2015	
Sample ID				828076-AA-001-01		828076-AA-002-01		828076-IA-003B1-01	
Qc Code				FS		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	Allyl chloride	ug/m3	0.47 U		0.47 U		0.47 U	
VOCs	T	Benzene	ug/m3	1.1		0.89		0.93	
VOCs	T	Benzyl chloride	ug/m3	0.86 U		0.86 U		0.86 U	
VOCs	T	Bromodichloromethane	ug/m3	1 U		1 U		1 U	
VOCs	T	Bromoform	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Bromomethane	ug/m3	0.58 U		0.58 U		0.58 U	
VOCs	T	Carbon disulfide	ug/m3	0.47 U		0.47 U		0.47 U	
VOCs	T	Carbon tetrachloride	ug/m3	0.44		0.44		0.44	
VOCs	T	Chlorobenzene	ug/m3	0.69 U		0.69 U		0.69 U	
VOCs	T	Chloroethane	ug/m3	0.4 U		0.4 U		0.4 U	
VOCs	T	Chloroform	ug/m3	0.73 U		0.73 U		0.63 J	
VOCs	T	Chloromethane	ug/m3	0.87		0.83		0.74	
VOCs	T	Cis-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
VOCs	T	Cis-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
VOCs	T	Cyclohexane	ug/m3	0.69		0.59		1	
VOCs	T	Dibromochloromethane	ug/m3	1.3 U		1.3 U		1.3 U	
VOCs	T	Dichlorodifluoromethane	ug/m3	2.4		2.5		2.5	
VOCs	T	Ethyl acetate	ug/m3	0.79 J		0.36 J		0.58 J	
VOCs	T	Ethylbenzene	ug/m3	0.52 J		0.65 U		0.74	
VOCs	T	Heptane	ug/m3	0.7		0.7		0.94	
VOCs	T	Hexachlorobutadiene	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Hexane	ug/m3	1.4		1.1		1.3	
VOCs	T	Isooctane	ug/m3	0.56 J		0.7 U		0.47 J	
VOCs	T	Methyl Tertbutyl Ether	ug/m3	0.54 U		0.54 U		0.54 U	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

		SDG		C1512036		C1512036		C1512036	
		Location		AA-001		AA-002		P-003-B1-01	
		Sample Date		12/9/2015		12/9/2015		12/9/2015	
		Sample ID		828076-AA-001-01		828076-AA-002-01		828076-IA-003B1-01	
		Qc Code		FS		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	Methylene chloride	ug/m3	0.42 J		0.52 U		0.56	
VOCs	T	Propylene	ug/m3	0.26 U		0.26 U		0.26 U	
VOCs	T	Styrene	ug/m3	0.64 U		0.64 U		0.64 U	
VOCs	T	Tetrachloroethene	ug/m3	1 U		1 U		1 U	
VOCs	T	Tetrahydrofuran	ug/m3	0.44 U		0.44 U		0.44 U	
VOCs	T	Toluene	ug/m3	2.8		2.3		4.1	
VOCs	T	trans-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
VOCs	T	trans-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
VOCs	T	Trichloroethene	ug/m3	0.81		1		1.1	
VOCs	T	Trichlorofluoromethane	ug/m3	1.4		1.5		1.6	
VOCs	T	Vinyl acetate	ug/m3	0.53 U		0.53 U		0.53 U	
VOCs	T	Vinyl bromide	ug/m3	0.66 U		0.66 U		0.66 U	
VOCs	T	Vinyl chloride	ug/m3	0.1 U		0.1 U		0.1 U	
VOCs	T	Xylene, o	ug/m3	0.52 J		0.65 U		0.65	
VOCs	T	Xylenes (m&p)	ug/m3	1.5		0.78 J		2.2	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG				C1512036		C1512036		C1512036	
Location				P-003-B1-02		P-003-B10-03		P-003-B10-04	
Sample Date				12/9/2015		12/9/2015		12/9/2015	
Sample ID				828076-IA-003B1-02		828076-IA-003B10-03		828076-IA-003B10-04	
Qc Code				FS		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	1,1,1-Trichloroethane	ug/m3	0.82 U		0.82 U		0.82 U	
VOCs	T	1,1,2,2-Tetrachloroethane	ug/m3	1 U		1 U		1 U	
VOCs	T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.1 U		1.1 U		1.1 U	
VOCs	T	1,1,2-Trichloroethane	ug/m3	0.82 U		0.82 U		0.82 U	
VOCs	T	1,1-Dichloroethane	ug/m3	0.61 U		0.61 U		0.61 U	
VOCs	T	1,1-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
VOCs	T	1,2,4-Trichlorobenzene	ug/m3	1.1 U		1.1 U		1.1 U	
VOCs	T	1,2,4-Trimethylbenzene	ug/m3	0.79		1.3		0.93	
VOCs	T	1,2-Dibromoethane	ug/m3	1.2 U		1.2 U		1.2 U	
VOCs	T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1 U		1 U		1 U	
VOCs	T	1,2-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	1,2-Dichloroethane	ug/m3	0.61 U		0.61 U		0.61 U	
VOCs	T	1,2-Dichloropropane	ug/m3	0.69 U		0.69 U		0.69 U	
VOCs	T	1,3,5-Trimethylbenzene	ug/m3	0.64 J		0.84		0.93	
VOCs	T	1,3-Butadiene	ug/m3	0.33 U		0.33 U		0.33 U	
VOCs	T	1,3-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	1,4-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	1,4-Dioxane	ug/m3	1.1 U		1.1 U		1.1 U	
VOCs	T	2-Butanone	ug/m3	2.2		1.2		2.3	
VOCs	T	2-Hexanone	ug/m3	1.2		1.2 U		1.2 U	
VOCs	T	2-Propanol	ug/m3	7.1		4.8		6.4	
VOCs	T	4-Ethyltoluene	ug/m3	0.74 U		0.74 U		0.74 U	
VOCs	T	4-Methyl-2-pentanone	ug/m3	1.2 U		1.2 U		1.2 U	
VOCs	T	Acetone	ug/m3	17		12		13	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG									
Location				C1512036			C1512036		
Sample Date				P-003-B1-02 12/9/2015			P-003-B10-03 12/9/2015		
Sample ID				828076-IA-003B1-02			828076-IA-003B10-03		
Qc Code				FS			FS		
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	Allyl chloride	ug/m3	0.47 U		0.47 U		0.47 U	
VOCs	T	Benzene	ug/m3	0.89		0.77		0.8	
VOCs	T	Benzyl chloride	ug/m3	0.86 U		0.86 U		0.86 U	
VOCs	T	Bromodichloromethane	ug/m3	1 U		1 U		1 U	
VOCs	T	Bromoform	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Bromomethane	ug/m3	0.58 U		0.58 U		0.58 U	
VOCs	T	Carbon disulfide	ug/m3	0.47 U		0.34 J		0.47 U	
VOCs	T	Carbon tetrachloride	ug/m3	0.44		0.44		0.44	
VOCs	T	Chlorobenzene	ug/m3	0.69 U		0.69 U		0.69 U	
VOCs	T	Chloroethane	ug/m3	0.4 U		0.4 U		0.4 U	
VOCs	T	Chloroform	ug/m3	0.83		0.73 U		1.2	
VOCs	T	Chloromethane	ug/m3	0.87		0.81		0.93	
VOCs	T	Cis-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
VOCs	T	Cis-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
VOCs	T	Cyclohexane	ug/m3	1.1		1.6		1.4 J	
VOCs	T	Dibromochloromethane	ug/m3	1.3 U		1.3 U		1.3 U	
VOCs	T	Dichlorodifluoromethane	ug/m3	2.6		2.5		2.6	
VOCs	T	Ethyl acetate	ug/m3	0.79 J		0.47 J		0.79 J	
VOCs	T	Ethylbenzene	ug/m3	0.52 J		2.2		0.56 J	
VOCs	T	Heptane	ug/m3	0.61 U		0.82		0.57 J	
VOCs	T	Hexachlorobutadiene	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Hexane	ug/m3	1.5		1.2		1.2	
VOCs	T	Isooctane	ug/m3	0.51 J		0.7 U		0.7 U	
VOCs	T	Methyl Tertbutyl Ether	ug/m3	0.54 U		0.54 U		0.54 U	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512036		C1512036		C1512036	
Location		P-003-B1-02		P-003-B10-03		P-003-B10-04	
Sample Date		12/9/2015		12/9/2015		12/9/2015	
Sample ID		828076-IA-003B1-02		828076-IA-003B10-03		828076-IA-003B10-04	
Qc Code		FS		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier
VOCs	T	Methylene chloride	ug/m3	3.6		0.76	
VOCs	T	Propylene	ug/m3	0.26 U		0.26 U	
VOCs	T	Styrene	ug/m3	0.64 U		0.51 J	
VOCs	T	Tetrachloroethene	ug/m3	1 U		1 U	
VOCs	T	Tetrahydrofuran	ug/m3	0.44 U		0.44 U	
VOCs	T	Toluene	ug/m3	6.4		3	
VOCs	T	trans-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U	
VOCs	T	trans-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U	
VOCs	T	Trichloroethene	ug/m3	1.6		1.4 J	
VOCs	T	Trichlorofluoromethane	ug/m3	1.5		1.5	
VOCs	T	Vinyl acetate	ug/m3	0.53 U		0.53 U	
VOCs	T	Vinyl bromide	ug/m3	0.66 U		0.66 U	
VOCs	T	Vinyl chloride	ug/m3	0.1 U		0.1 U	
VOCs	T	Xylene, o	ug/m3	0.56 J		0.61 J	
VOCs	T	Xylenes (m&p)	ug/m3	1.7		1.9	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512036		C1512036		C1512036	
Location		P-003-B10-04		P-003-B2-01		P-003-B2-02	
Sample Date		12/9/2015		12/9/2015		12/9/2015	
Sample ID		828076-IA-003B10-04		828076-IA-003B2-01		828076-IA-003B2-02	
Class	Fraction	Parameter	Units	Qc Code	Result	Qualifier	Result
VOCs	T	1,1,1-Trichloroethane	ug/m3		0.82 U		0.82 U
VOCs	T	1,1,2,2-Tetrachloroethane	ug/m3		1 U		1 U
VOCs	T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3		1.1 U		1.1 U
VOCs	T	1,1,2-Trichloroethane	ug/m3		0.82 U		0.82 U
VOCs	T	1,1-Dichloroethane	ug/m3		0.61 U		0.61 U
VOCs	T	1,1-Dichloroethene	ug/m3		0.59 U		0.59 U
VOCs	T	1,2,4-Trichlorobenzene	ug/m3		1.1 U		1.1 U
VOCs	T	1,2,4-Trimethylbenzene	ug/m3		0.74		0.93
VOCs	T	1,2-Dibromoethane	ug/m3		1.2 U		1.2 U
VOCs	T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3		1 U		1 U
VOCs	T	1,2-Dichlorobenzene	ug/m3		0.9 U		0.9 U
VOCs	T	1,2-Dichloroethane	ug/m3		0.61 U		0.61 U
VOCs	T	1,2-Dichloropropane	ug/m3		0.69 U		0.69 U
VOCs	T	1,3,5-Trimethylbenzene	ug/m3		0.69 J		0.59 J
VOCs	T	1,3-Butadiene	ug/m3		0.33 U		0.33 U
VOCs	T	1,3-Dichlorobenzene	ug/m3		0.9 U		0.9 U
VOCs	T	1,4-Dichlorobenzene	ug/m3		0.9 U		0.9 U
VOCs	T	1,4-Dioxane	ug/m3		1.1 U		1.1 U
VOCs	T	2-Butanone	ug/m3		2.2		1.2
VOCs	T	2-Hexanone	ug/m3		1.2 U		0.49 J
VOCs	T	2-Propanol	ug/m3		4.6		4.3
VOCs	T	4-Ethyltoluene	ug/m3		0.74 U		0.74 U
VOCs	T	4-Methyl-2-pentanone	ug/m3		1.2 U		1.2 U
VOCs	T	Acetone	ug/m3		19		12

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG				C1512036		C1512036		C1512036	
Location				P-003-B10-04		P-003-B2-01		P-003-B2-02	
Sample Date				12/9/2015		12/9/2015		12/9/2015	
Sample ID				828076-IA-003B10-04		828076-IA-003B2-01		828076-IA-003B2-02	
Qc Code				FD		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	Allyl chloride	ug/m3	0.47 U		0.47 U		0.47 U	
VOCs	T	Benzene	ug/m3	0.73		1.1		1.3	
VOCs	T	Benzyl chloride	ug/m3	0.86 U		0.86 U		0.86 U	
VOCs	T	Bromodichloromethane	ug/m3	1 U		1 U		1 U	
VOCs	T	Bromoform	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Bromomethane	ug/m3	0.58 U		0.58 U		0.58 U	
VOCs	T	Carbon disulfide	ug/m3	0.47		0.47 U		0.47 U	
VOCs	T	Carbon tetrachloride	ug/m3	0.44		0.57		0.5	
VOCs	T	Chlorobenzene	ug/m3	0.69 U		0.69 U		0.69 U	
VOCs	T	Chloroethane	ug/m3	0.4 U		0.4 U		0.4 U	
VOCs	T	Chloroform	ug/m3	1.2		1.3		0.73	
VOCs	T	Chloromethane	ug/m3	0.89		0.99		1.2	
VOCs	T	Cis-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
VOCs	T	Cis-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
VOCs	T	Cyclohexane	ug/m3	0.52 UJ		1.9		1.4	
VOCs	T	Dibromochloromethane	ug/m3	1.3 U		1.3 U		1.3 U	
VOCs	T	Dichlorodifluoromethane	ug/m3	2.6		2.4		2.5	
VOCs	T	Ethyl acetate	ug/m3	0.76 J		4.1		0.72 J	
VOCs	T	Ethylbenzene	ug/m3	0.52 J		2.1		0.69	
VOCs	T	Heptane	ug/m3	0.45 J		1.8		5.7	
VOCs	T	Hexachlorobutadiene	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Hexane	ug/m3	1.3		6.7		1.6	
VOCs	T	Isooctane	ug/m3	0.7 U		0.56 J		0.79	
VOCs	T	Methyl Tertbutyl Ether	ug/m3	0.54 U		0.54 U		0.54 U	

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512036		C1512036		C1512036	
Location		P-003-B10-04		P-003-B2-01		P-003-B2-02	
Sample Date		12/9/2015		12/9/2015		12/9/2015	
Sample ID		828076-IA-003B10-04		828076-IA-003B2-01		828076-IA-003B2-02	
Qc Code		FD		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier
VOCs	T	Methylene chloride	ug/m3	0.87		0.66	
VOCs	T	Propylene	ug/m3	0.26 U		0.26 U	
VOCs	T	Styrene	ug/m3	0.51 J		0.64 U	
VOCs	T	Tetrachloroethene	ug/m3	1 U		1 U	
VOCs	T	Tetrahydrofuran	ug/m3	0.44 U		0.44 U	
VOCs	T	Toluene	ug/m3	2.1		3.5	
VOCs	T	trans-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U	
VOCs	T	trans-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U	
VOCs	T	Trichloroethene	ug/m3	0.59 J		0.48	
VOCs	T	Trichlorofluoromethane	ug/m3	1.6		1.5	
VOCs	T	Vinyl acetate	ug/m3	0.53 U		0.53 U	
VOCs	T	Vinyl bromide	ug/m3	0.66 U		0.66 U	
VOCs	T	Vinyl chloride	ug/m3	0.1 U		0.1 U	
VOCs	T	Xylene, o	ug/m3	0.56 J		0.74	
VOCs	T	Xylenes (m&p)	ug/m3	1.6		2.2	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG				C1512036		C1512036		C1512036	
Location				P-003-B2-03		SVP-12		SVP-13	
Sample Date				12/9/2015		12/9/2015		12/9/2015	
Sample ID				828076-IA-003B2-03		828076-SVP12005		828076-SVP13005	
Qc Code				FS		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	1,1,1-Trichloroethane	ug/m3	0.82	U	0.82	U	0.82	U
VOCs	T	1,1,2,2-Tetrachloroethane	ug/m3	1	U	1	U	1	U
VOCs	T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.1	U	1.1	U	1.1	U
VOCs	T	1,1,2-Trichloroethane	ug/m3	0.82	U	0.82	U	0.82	U
VOCs	T	1,1-Dichloroethane	ug/m3	0.61	U	0.61	U	0.61	U
VOCs	T	1,1-Dichloroethene	ug/m3	0.59	U	0.59	U	0.59	U
VOCs	T	1,2,4-Trichlorobenzene	ug/m3	1.1	U	1.1	U	1.1	U
VOCs	T	1,2,4-Trimethylbenzene	ug/m3	0.79		1.5		0.69	J
VOCs	T	1,2-Dibromoethane	ug/m3	1.2	U	1.2	U	1.2	U
VOCs	T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1	U	1	U	1	U
VOCs	T	1,2-Dichlorobenzene	ug/m3	0.9	U	0.9	U	0.9	U
VOCs	T	1,2-Dichloroethane	ug/m3	0.61	U	0.61	U	0.61	U
VOCs	T	1,2-Dichloropropane	ug/m3	0.69	U	0.69	U	0.69	U
VOCs	T	1,3,5-Trimethylbenzene	ug/m3	0.59	J	0.74	U	0.59	J
VOCs	T	1,3-Butadiene	ug/m3	0.33	U	0.33	U	0.33	U
VOCs	T	1,3-Dichlorobenzene	ug/m3	0.9	U	0.9	U	0.9	U
VOCs	T	1,4-Dichlorobenzene	ug/m3	0.78	J	0.9	U	0.9	U
VOCs	T	1,4-Dioxane	ug/m3	1.1	U	1.1	U	1.1	U
VOCs	T	2-Butanone	ug/m3	2.1		0.88	U	1.4	
VOCs	T	2-Hexanone	ug/m3	1.2	U	1.2	U	1.2	U
VOCs	T	2-Propanol	ug/m3	28		0.37	U	0.37	U
VOCs	T	4-Ethyltoluene	ug/m3	0.74	U	0.74	U	0.74	U
VOCs	T	4-Methyl-2-pentanone	ug/m3	1.2	U	1.2	U	1.2	U
VOCs	T	Acetone	ug/m3	29		0.71	U	3.1	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

		SDG		C1512036		C1512036		C1512036	
		Location		P-003-B2-03		12/9/2015		12/9/2015	
		Sample Date		828076-IA-003B2-03		FS		FS	
		Sample ID		828076-SVP12005		FS		828076-SVP13005	
		Qc Code							
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	Allyl chloride	ug/m3	0.47 U		0.47 U		0.47 U	
VOCs	T	Benzene	ug/m3	0.48 U		0.48 U		0.48 U	
VOCs	T	Benzyl chloride	ug/m3	0.86 U		0.86 U		0.86 U	
VOCs	T	Bromodichloromethane	ug/m3	1 U		1 U		1 U	
VOCs	T	Bromoform	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Bromomethane	ug/m3	0.58 U		0.58 U		0.58 U	
VOCs	T	Carbon disulfide	ug/m3	0.47 U		0.47 U		0.47 U	
VOCs	T	Carbon tetrachloride	ug/m3	0.25 U		0.25 U		0.25 U	
VOCs	T	Chlorobenzene	ug/m3	0.69 U		0.69 U		0.69 U	
VOCs	T	Chloroethane	ug/m3	0.4 U		0.4 U		0.4 U	
VOCs	T	Chloroform	ug/m3	7.7		7.7		7.7	
VOCs	T	Chloromethane	ug/m3	0.31 U		0.31 U		0.31 U	
VOCs	T	Cis-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
VOCs	T	Cis-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
VOCs	T	Cyclohexane	ug/m3	0.52 U		0.52 U		0.52 U	
VOCs	T	Dibromochloromethane	ug/m3	1.3 U		1.3 U		1.3 U	
VOCs	T	Dichlorodifluoromethane	ug/m3	2.3		2.3		2.3	
VOCs	T	Ethyl acetate	ug/m3	3.2		3.2		3.2	
VOCs	T	Ethylbenzene	ug/m3	0.69		0.69		0.69	
VOCs	T	Heptane	ug/m3	60		60		60	
VOCs	T	Hexachlorobutadiene	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Hexane	ug/m3	1.7		1.7		1.7	
VOCs	T	Isooctane	ug/m3	1.1		1.1		1.1	
VOCs	T	Methyl Tertbutyl Ether	ug/m3	0.54 U		0.54 U		0.54 U	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG				C1512036		C1512036		C1512036	
Location				P-003-B2-03		SVP-12		SVP-13	
Sample Date				12/9/2015		12/9/2015		12/9/2015	
Sample ID				828076-IA-003B2-03		828076-SVP12005		828076-SVP13005	
Qc Code				FS		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	Methylene chloride	ug/m3	0.63		0.56		0.52 U	
VOCs	T	Propylene	ug/m3	0.26 U		0.26 U		0.26 U	
VOCs	T	Styrene	ug/m3	0.64 U		0.64 U		0.64 U	
VOCs	T	Tetrachloroethene	ug/m3	1 U		1 U		1.1	
VOCs	T	Tetrahydrofuran	ug/m3	0.44 U		0.44 U		0.44 U	
VOCs	T	Toluene	ug/m3	4.1		160		650	
VOCs	T	trans-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
VOCs	T	trans-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
VOCs	T	Trichloroethene	ug/m3	0.27		0.81 U		0.81 U	
VOCs	T	Trichlorofluoromethane	ug/m3	1.4		1.3		1.5	
VOCs	T	Vinyl acetate	ug/m3	0.53 U		0.53 U		0.53 U	
VOCs	T	Vinyl bromide	ug/m3	0.66 U		0.66 U		0.66 U	
VOCs	T	Vinyl chloride	ug/m3	0.1 U		0.38 U		0.38 U	
VOCs	T	Xylene, o	ug/m3	0.74		1.9		0.61 J	
VOCs	T	Xylenes (m&p)	ug/m3	2.2		5.8		1.7	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

		SDG		C1512036		C1512036		C1512036		C1512036	
		Location		SVP-14		SVP-15		SVP-15		SVP-15	
		Sample Date		12/9/2015		12/9/2015		12/9/2015		12/9/2015	
		Sample ID		828076-SVP14005		828076-SVP15005		828076-SVP15005		828076-SVP15005D	
		Qc Code		FS		FS		FS		FD	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	1,1,1-Trichloroethane	ug/m3	0.71 J		0.82 U		0.82 U		0.82 U	
VOCs	T	1,1,2,2-Tetrachloroethane	ug/m3	1 U		1 U		1 U		1 U	
VOCs	T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.1 U		1.1 U		1.1 U		1.1 U	
VOCs	T	1,1,2-Trichloroethane	ug/m3	0.82 U		0.82 U		0.82 U		0.82 U	
VOCs	T	1,1-Dichloroethane	ug/m3	0.61 U		0.61 U		0.61 U		0.61 U	
VOCs	T	1,1-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U		0.59 U	
VOCs	T	1,2,4-Trichlorobenzene	ug/m3	1.1 U		1.1 U		1.1 U		1.1 U	
VOCs	T	1,2,4-Trimethylbenzene	ug/m3	0.69 J		0.59 J		0.64 J		0.64 J	
VOCs	T	1,2-Dibromoethane	ug/m3	1.2 U		1.2 U		1.2 U		1.2 U	
VOCs	T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1 U		1 U		1 U		1 U	
VOCs	T	1,2-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U		0.9 U	
VOCs	T	1,2-Dichloroethane	ug/m3	0.61 U		0.61 U		0.61 U		0.61 U	
VOCs	T	1,2-Dichloropropane	ug/m3	0.69 U		0.69 U		0.69 U		0.69 U	
VOCs	T	1,3,5-Trimethylbenzene	ug/m3	0.74 U		0.74 U		0.74 U		0.74 U	
VOCs	T	1,3-Butadiene	ug/m3	0.33 U		0.33 U		0.33 U		0.33 U	
VOCs	T	1,3-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U		0.9 U	
VOCs	T	1,4-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U		0.9 U	
VOCs	T	1,4-Dioxane	ug/m3	1.1 U		1.1 U		1.1 U		1.1 U	
VOCs	T	2-Butanone	ug/m3	0.88		0.62 J		0.65 J		0.65 J	
VOCs	T	2-Hexanone	ug/m3	1.2 U		1.2 U		1.2 U		1.2 U	
VOCs	T	2-Propanol	ug/m3	0.37 U		0.37 UJ		7.9 J		7.9 J	
VOCs	T	4-Ethyltoluene	ug/m3	0.74 U		0.74 U		0.74 U		0.74 U	
VOCs	T	4-Methyl-2-pentanone	ug/m3	1.2 U		1.2 U		1.2 U		1.2 U	
VOCs	T	Acetone	ug/m3	4.4		2 J		3.9 J		3.9 J	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG				C1512036		C1512036		C1512036	
Location				SVP-14		SVP-15		SVP-15	
Sample Date				12/9/2015		12/9/2015		12/9/2015	
Sample ID				828076-SVP14005		828076-SVP15005		828076-SVP15005D	
Qc Code				FS		FS		FD	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	Allyl chloride	ug/m3	0.47 U		0.47 U		0.47 U	
VOCs	T	Benzene	ug/m3	0.45 J		1.3		1.3	
VOCs	T	Benzyl chloride	ug/m3	0.86 U		0.86 U		0.86 U	
VOCs	T	Bromodichloromethane	ug/m3	1 U		1.2		1.2	
VOCs	T	Bromoform	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Bromomethane	ug/m3	0.58 U		0.58 U		0.58 U	
VOCs	T	Carbon disulfide	ug/m3	3.5		2		2	
VOCs	T	Carbon tetrachloride	ug/m3	0.94 U		0.94 U		0.94 U	
VOCs	T	Chlorobenzene	ug/m3	0.69 U		0.69 U		0.69 U	
VOCs	T	Chloroethane	ug/m3	0.4 U		0.4 U		0.4 U	
VOCs	T	Chloroform	ug/m3	0.73 U		27		23	
VOCs	T	Chloromethane	ug/m3	0.31 U		0.31 U		0.31 U	
VOCs	T	Cis-1,2-Dichloroethene	ug/m3	0.59 U		6.5		6.4	
VOCs	T	Cis-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
VOCs	T	Cyclohexane	ug/m3	0.52 U		0.76		0.76	
VOCs	T	Dibromochloromethane	ug/m3	1.3 U		1.3 U		1.3 U	
VOCs	T	Dichlorodifluoromethane	ug/m3	2.2		2.4		2.4	
VOCs	T	Ethyl acetate	ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	Ethylbenzene	ug/m3	2		0.91		0.87	
VOCs	T	Heptane	ug/m3	0.61		0.61 U		0.61 U	
VOCs	T	Hexachlorobutadiene	ug/m3	1.6 U		1.6 U		1.6 U	
VOCs	T	Hexane	ug/m3	0.53 U		0.46 J		0.53	
VOCs	T	Isooctane	ug/m3	0.7 U		0.7 U		0.7 U	
VOCs	T	Methyl Tertbutyl Ether	ug/m3	0.54 U		0.54 U		0.54 U	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512036		C1512036		C1512036	
Location		SVP-14		SVP-15		SVP-15	
Sample Date		12/9/2015		12/9/2015		12/9/2015	
Sample ID		828076-SVP14005		828076-SVP15005		828076-SVP15005D	
Qc Code		FS		FS		FD	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier
VOCs	T	Methylene chloride	ug/m3	0.52 U		0.52 U	
VOCs	T	Propylene	ug/m3	0.26 U		0.26 U	
VOCs	T	Styrene	ug/m3	0.64 U		0.64 U	
VOCs	T	Tetrachloroethene	ug/m3	3.8		81	
VOCs	T	Tetrahydrofuran	ug/m3	0.44 U		0.44 U	
VOCs	T	Toluene	ug/m3	200		120	
VOCs	T	trans-1,2-Dichloroethene	ug/m3	0.59 U		0.91	
VOCs	T	trans-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U	
VOCs	T	Trichloroethene	ug/m3	12		130	
VOCs	T	Trichlorofluoromethane	ug/m3	7.5		1.1	
VOCs	T	Vinyl acetate	ug/m3	0.53 U		0.53 U	
VOCs	T	Vinyl bromide	ug/m3	0.66 U		0.66 U	
VOCs	T	Vinyl chloride	ug/m3	0.38 U		0.38 U	
VOCs	T	Xylene, o	ug/m3	1.3		0.65	
VOCs	T	Xylenes (m&p)	ug/m3	4.7		1.5	

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512036		C1512036	
Location		SVP-17		SVP-18	
Sample Date		12/9/2015		12/9/2015	
Sample ID		828076-SVP17005		828076-SVP18005	
Qc Code		FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier
VOCs	T	1,1,1-Trichloroethane	ug/m3	0.82 U	0.82 U
VOCs	T	1,1,2,2-Tetrachloroethane	ug/m3	1 U	1 U
VOCs	T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.1 U	1.1 U
VOCs	T	1,1,2-Trichloroethane	ug/m3	0.82 U	0.82 U
VOCs	T	1,1-Dichloroethane	ug/m3	0.61 U	0.61 U
VOCs	T	1,1-Dichloroethene	ug/m3	0.59 U	0.59 U
VOCs	T	1,2,4-Trichlorobenzene	ug/m3	1.1 U	1.1 U
VOCs	T	1,2,4-Trimethylbenzene	ug/m3	0.79	1.7
VOCs	T	1,2-Dibromoethane	ug/m3	1.2 U	1.2 U
VOCs	T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1 U	1 U
VOCs	T	1,2-Dichlorobenzene	ug/m3	0.9 U	0.9 U
VOCs	T	1,2-Dichloroethane	ug/m3	0.61 U	0.61 U
VOCs	T	1,2-Dichloropropane	ug/m3	0.69 U	0.69 U
VOCs	T	1,3,5-Trimethylbenzene	ug/m3	0.74 U	0.74
VOCs	T	1,3-Butadiene	ug/m3	0.33 U	0.33 U
VOCs	T	1,3-Dichlorobenzene	ug/m3	0.9 U	0.9 U
VOCs	T	1,4-Dichlorobenzene	ug/m3	0.9 U	0.9 U
VOCs	T	1,4-Dioxane	ug/m3	1.1 U	1.1 U
VOCs	T	2-Butanone	ug/m3	0.71 J	0.5 J
VOCs	T	2-Hexanone	ug/m3	1.2 U	1.2 U
VOCs	T	2-Propanol	ug/m3	0.37 U	0.37 U
VOCs	T	4-Ethyltoluene	ug/m3	0.74 U	0.74 U
VOCs	T	4-Methyl-2-pentanone	ug/m3	1.2 U	1.2 U
VOCs	T	Acetone	ug/m3	3.2	0.71 U

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG				C1512036		C1512036	
Location				SVP-17		SVP-18	
Sample Date				12/9/2015		12/9/2015	
Sample ID				828076-SVP17005		828076-SVP18005	
Qc Code				FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier
VOCs	T	Allyl chloride	ug/m3	0.47 U		0.47 U	
VOCs	T	Benzene	ug/m3	0.48 U		0.48 U	
VOCs	T	Benzyl chloride	ug/m3	0.86 U		0.86 U	
VOCs	T	Bromodichloromethane	ug/m3	1 U		1 U	
VOCs	T	Bromoform	ug/m3	1.6 U		1.6 U	
VOCs	T	Bromomethane	ug/m3	0.58 U		0.58 U	
VOCs	T	Carbon disulfide	ug/m3	3.5		5.3	
VOCs	T	Carbon tetrachloride	ug/m3	0.94 U		0.94 U	
VOCs	T	Chlorobenzene	ug/m3	0.69 U		0.69 U	
VOCs	T	Chloroethane	ug/m3	0.4 U		0.4 U	
VOCs	T	Chloroform	ug/m3	0.73 U		1.1	
VOCs	T	Chloromethane	ug/m3	0.31 U		0.31 U	
VOCs	T	Cis-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U	
VOCs	T	Cis-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U	
VOCs	T	Cyclohexane	ug/m3	0.52 U		0.52 U	
VOCs	T	Dibromochloromethane	ug/m3	1.3 U		1.3 U	
VOCs	T	Dichlorodifluoromethane	ug/m3	2.5		2.4	
VOCs	T	Ethyl acetate	ug/m3	0.9 U		0.9 U	
VOCs	T	Ethylbenzene	ug/m3	1.5		1	
VOCs	T	Heptane	ug/m3	0.49 J		0.53 J	
VOCs	T	Hexachlorobutadiene	ug/m3	1.6 U		1.6 U	
VOCs	T	Hexane	ug/m3	0.53 U		0.63	
VOCs	T	Isooctane	ug/m3	0.7 U		0.7 U	
VOCs	T	Methyl Tertbutyl Ether	ug/m3	0.54 U		0.54 U	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG				C1512036		C1512036	
Location				SVP-17		SVP-18	
Sample Date				12/9/2015		12/9/2015	
Sample ID				828076-SVP17005		828076-SVP18005	
Qc Code				FS		FS	
Class	Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier
VOCs	T	Methylene chloride	ug/m3	0.52 U		0.52 U	
VOCs	T	Propylene	ug/m3	0.26 U		0.26 U	
VOCs	T	Styrene	ug/m3	0.64 U		0.64 U	
VOCs	T	Tetrachloroethene	ug/m3	1.1		1 U	
VOCs	T	Tetrahydrofuran	ug/m3	0.44 U		0.44 U	
VOCs	T	Toluene	ug/m3	190		2.6	
VOCs	T	trans-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U	
VOCs	T	trans-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U	
VOCs	T	Trichloroethene	ug/m3	0.81 U		0.81 U	
VOCs	T	Trichlorofluoromethane	ug/m3	1.3		1.1	
VOCs	T	Vinyl acetate	ug/m3	0.53 U		0.53 U	
VOCs	T	Vinyl bromide	ug/m3	0.66 U		0.66 U	
VOCs	T	Vinyl chloride	ug/m3	0.38 U		0.38 U	
VOCs	T	Xylene, o	ug/m3	1.3		1.3	
VOCs	T	Xylenes (m&p)	ug/m3	4.9		3.7	

**SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK**

Created by: BJS
January 13, 2016
Reviewed by: WAS
January 14, 2016

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Class	Fraction	Parameter	SDG			
			Location	Sample Date	Sample ID	Qc Code
			Units			
VOCs	T	Allyl chloride	ug/m3			
VOCs	T	Benzene	ug/m3			
VOCs	T	Benzyl chloride	ug/m3			
VOCs	T	Bromodichloromethane	ug/m3			
VOCs	T	Bromoform	ug/m3			
VOCs	T	Bromomethane	ug/m3			
VOCs	T	Carbon disulfide	ug/m3			
VOCs	T	Carbon tetrachloride	ug/m3			
VOCs	T	Chlorobenzene	ug/m3			
VOCs	T	Chloroethane	ug/m3			
VOCs	T	Chloroform	ug/m3			
VOCs	T	Chloromethane	ug/m3			
VOCs	T	Cis-1,2-Dichloroethene	ug/m3			
VOCs	T	Cis-1,3-Dichloropropene	ug/m3			
VOCs	T	Cyclohexane	ug/m3			
VOCs	T	Dibromochloromethane	ug/m3			
VOCs	T	Dichlorodifluoromethane	ug/m3			
VOCs	T	Ethyl acetate	ug/m3			
VOCs	T	Ethylbenzene	ug/m3			
VOCs	T	Heptane	ug/m3			
VOCs	T	Hexachlorobutadiene	ug/m3			
VOCs	T	Hexane	ug/m3			
VOCs	T	Isooctane	ug/m3			
VOCs	T	Methyl Tertbutyl Ether	ug/m3			

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Class	Fraction	Parameter	SDG			
			Location	Sample Date	Sample ID	Qc Code
			Units			
VOCs	T	Methylene chloride	ug/m3	C1512040 AA-003 12/10/2015 828076-AA-003-01 FS	C1512040 AA-004 12/10/2015 828076-AA-004-01 FS	C1512040 AA-005 12/10/2015 828076-AA-005-01 FS
VOCs	T	Propylene	ug/m3	Result	Qualifier	Result
VOCs	T	Styrene	ug/m3	0.52		0.56
VOCs	T	Tetrachloroethene	ug/m3	0.26 U		0.26 U
VOCs	T	Tetrahydrofuran	ug/m3	0.64 U		0.64 U
VOCs	T	Toluene	ug/m3	1 U		1 U
VOCs	T	trans-1,2-Dichloroethene	ug/m3	0.44 U		0.44 U
VOCs	T	trans-1,3-Dichloropropene	ug/m3	1.1		1.9
VOCs	T	Trichloroethene	ug/m3	0.59 U		0.59 U
VOCs	T	Trichlorofluoromethane	ug/m3	0.68 U		0.68 U
VOCs	T	Vinyl acetate	ug/m3	0.21 U		0.21 U
VOCs	T	Vinyl bromide	ug/m3	1.6		1.7
VOCs	T	Vinyl chloride	ug/m3	0.53 U		0.53 U
VOCs	T	Xylene, o	ug/m3	0.66 U		0.66 U
VOCs	T	Xylenes (m&p)	ug/m3	0.1 U		0.1 U
VOCs	T		ug/m3	0.65 U		0.65 U
VOCs	T		ug/m3	0.69 J		1.2 J

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG			C1512040		C1512040		C1512040	
Location			P-003-B3-01		P-003-B3-01		P-003-B3-02	
Sample Date			12/10/2015		12/10/2015		12/10/2015	
Sample ID			828076-IA-003B3-01		828076-SS-003B3-01		828076-IA-003B3-02	
Qc Code			FS		FS		FS	
Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	1,1,1-Trichloroethane	ug/m3	0.82 U		0.82 U		0.82 U	
T	1,1,2,2-Tetrachloroethane	ug/m3	1 U		1 U		1 U	
T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.1 U		1.1 U		1.1 U	
T	1,1,2-Trichloroethane	ug/m3	0.82 U		0.82 U		0.82 U	
T	1,1-Dichloroethane	ug/m3	0.61 U		0.61 U		0.61 U	
T	1,1-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
T	1,2,4-Trichlorobenzene	ug/m3	1.1 U		1.1 U		1.1 U	
T	1,2,4-Trimethylbenzene	ug/m3	0.74		5.7		0.98	
T	1,2-Dibromoethane	ug/m3	1.2 U		1.2 U		1.2 U	
T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1 U		1 U		1 U	
T	1,2-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U	
T	1,2-Dichloroethane	ug/m3	0.61 U		0.61 U		2.9	
T	1,2-Dichloropropane	ug/m3	0.69 U		0.69 U		0.69 U	
T	1,3,5-Trimethylbenzene	ug/m3	0.59 J		2.8		0.98	
T	1,3-Butadiene	ug/m3	0.33 U		0.33 U		0.33 U	
T	1,3-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U	
T	1,4-Dichlorobenzene	ug/m3	0.9 U		0.9 U		0.9 U	
T	1,4-Dioxane	ug/m3	1.1 U		1.1 U		1.1 U	
T	2-Butanone	ug/m3	1.4		2.6		1.9	
T	2-Hexanone	ug/m3	1.2 U		1.2 U		1.2 U	
T	2-Propanol	ug/m3	8.4		7.1		2.6	
T	4-Ethyltoluene	ug/m3	0.74 U		2		0.74 U	
T	4-Methyl-2-pentanone	ug/m3	1 J		1.1 J		0.57 J	
T	Acetone	ug/m3	23		33		19	

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512040		C1512040		C1512040		
Location		P-003-B3-01		P-003-B3-01		P-003-B3-02		
Sample Date		12/10/2015		12/10/2015		12/10/2015		
Sample ID		828076-IA-003B3-01		828076-SS-003B3-01		828076-IA-003B3-02		
Qc Code		FS		FS		FS		
Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	Allyl chloride	ug/m3	0.47	U	0.47	U	0.47	U
T	Benzene	ug/m3	0.67		2.4		0.77	
T	Benzyl chloride	ug/m3	0.86	UJ	0.86	U	0.86	UJ
T	Bromodichloromethane	ug/m3	1	U	1	U	1	U
T	Bromoform	ug/m3	1.6	U	1.6	U	1.6	U
T	Bromomethane	ug/m3	0.58	U	0.58	U	0.58	U
T	Carbon disulfide	ug/m3	0.4	J	0.62		0.37	J
T	Carbon tetrachloride	ug/m3	0.44		0.94	U	0.44	
T	Chlorobenzene	ug/m3	0.69	U	0.69	U	0.69	U
T	Chloroethane	ug/m3	0.4	U	0.4	U	0.4	U
T	Chloroform	ug/m3	0.88		2.4		0.54	J
T	Chloromethane	ug/m3	1.6		0.31	U	0.99	
T	Cis-1,2-Dichloroethene	ug/m3	0.59	U	0.59	U	0.59	U
T	Cis-1,3-Dichloropropene	ug/m3	0.68	U	0.68	U	0.68	U
T	Cyclohexane	ug/m3	0.52	U	2.4		1.9	
T	Dibromochloromethane	ug/m3	1.3	U	1.3	U	1.3	U
T	Dichlorodifluoromethane	ug/m3	2.9		2.6		2.8	
T	Ethyl acetate	ug/m3	1.2		1.5		0.65	J
T	Ethylbenzene	ug/m3	0.52	J	4		0.61	J
T	Heptane	ug/m3	0.98		2.8		0.45	J
T	Hexachlorobutadiene	ug/m3	1.6	U	1.6	U	1.6	U
T	Hexane	ug/m3	0.92		3.1		0.95	
T	Isooctane	ug/m3	0.7	U	0.56	J	0.7	U
T	Methyl Tertbutyl Ether	ug/m3	0.54	U	0.54	U	0.54	U

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG Location Sample Date Sample ID Qc Code		C1512040 P-003-B3-01 12/10/2015 828076-IA-003B3-01 FS		C1512040 P-003-B3-01 12/10/2015 828076-SS-003B3-01 FS		C1512040 P-003-B3-02 12/10/2015 828076-IA-003B3-02 FS		
Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	Methylene chloride	ug/m3	0.49 J		0.56		0.56	
T	Propylene	ug/m3	0.26 U		0.26 U		0.26 U	
T	Styrene	ug/m3	0.68		2.7		0.68	
T	Tetrachloroethene	ug/m3	1 U		1		1 U	
T	Tetrahydrofuran	ug/m3	0.44 U		0.44 U		0.44 U	
T	Toluene	ug/m3	2.1		17		2.1	
T	trans-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
T	trans-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
T	Trichloroethene	ug/m3	0.38		1.3		0.86	
T	Trichlorofluoromethane	ug/m3	1.7		1.5		2.3	
T	Vinyl acetate	ug/m3	0.53 U		0.53 U		0.53 U	
T	Vinyl bromide	ug/m3	0.66 U		0.66 U		0.66 U	
T	Vinyl chloride	ug/m3	0.1 U		0.38 U		0.1 U	
T	Xylene, o	ug/m3	0.52 J		4.8		0.56 J	
T	Xylenes (m&p)	ug/m3	1.6		15		1.5	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512040		C1512040		C1512040		
Location		P-003-B3-02		P-003-B4-02		P-003-B4-02		
Sample Date		12/10/2015		12/10/2015		12/10/2015		
Sample ID		828076-SS-003B3-02		828076-IA-003B4-02		828076-SS-003B4-02		
Qc Code		FS		FS		FS		
Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	1,1,1-Trichloroethane	ug/m3	0.82	U	0.82	U	0.82	U
T	1,1,2,2-Tetrachloroethane	ug/m3	1	U	1	U	1	U
T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.1	U	1.1	U	1.1	U
T	1,1,2-Trichloroethane	ug/m3	0.82	U	0.82	U	0.82	U
T	1,1-Dichloroethane	ug/m3	0.61	U	0.61	U	0.61	U
T	1,1-Dichloroethene	ug/m3	0.59	U	0.59	U	0.59	U
T	1,2,4-Trichlorobenzene	ug/m3	1.1	U	1.1	U	1.1	U
T	1,2,4-Trimethylbenzene	ug/m3	2.9		3.7		5.1	
T	1,2-Dibromoethane	ug/m3	1.2	U	1.2	U	1.2	U
T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1	U	1	U	1	U
T	1,2-Dichlorobenzene	ug/m3	0.9	U	0.9	U	0.9	U
T	1,2-Dichloroethane	ug/m3	0.61	U	0.45	J	0.61	U
T	1,2-Dichloropropane	ug/m3	0.69	U	0.69	U	0.69	U
T	1,3,5-Trimethylbenzene	ug/m3	2.2		1.8		2.9	
T	1,3-Butadiene	ug/m3	0.33	U	0.33	U	0.33	U
T	1,3-Dichlorobenzene	ug/m3	0.9	U	0.9	U	0.9	U
T	1,4-Dichlorobenzene	ug/m3	0.9	U	0.9	U	0.9	U
T	1,4-Dioxane	ug/m3	1.1	U	1.1	U	1.1	U
T	2-Butanone	ug/m3	2.4		1.7		4.9	
T	2-Hexanone	ug/m3	1.2	U	1.2	U	1.2	U
T	2-Propanol	ug/m3	16		3		18	
T	4-Ethyltoluene	ug/m3	0.84		1.1		1.7	
T	4-Methyl-2-pentanone	ug/m3	1.2	U	1.2	U	1.2	U
T	Acetone	ug/m3	22		13		30	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction	Parameter	Units	SDG		C1512040		C1512040		C1512040	
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier	Result	Qualifier
T	Allyl chloride	ug/m3	P-003-B3-02	12/10/2015	828076-SS-003B3-02	FS	0.47 U		0.47 U	
T	Benzene	ug/m3					2.1		0.93	2
T	Benzyl chloride	ug/m3					0.86 U		0.86 U	
T	Bromodichloromethane	ug/m3					1 U		1 U	1 U
T	Bromoform	ug/m3					1.6 U		1.6 U	1.6 U
T	Bromomethane	ug/m3					0.58 U		0.58 U	0.58 U
T	Carbon disulfide	ug/m3					12		0.4 J	1.9
T	Carbon tetrachloride	ug/m3					0.94 U		0.44	0.94 U
T	Chlorobenzene	ug/m3					0.69 U		0.69 U	0.69 U
T	Chloroethane	ug/m3					0.4 U		0.4 U	0.4 U
T	Chloroform	ug/m3					1.6		0.73 U	2.5
T	Chloromethane	ug/m3					0.31 U		0.95	0.31 U
T	Cis-1,2-Dichloroethene	ug/m3					0.59 U		0.59 U	0.52 J
T	Cis-1,3-Dichloropropene	ug/m3					0.68 U		0.68 U	0.68 U
T	Cyclohexane	ug/m3					9.6		1	3.4
T	Dibromochloromethane	ug/m3					1.3 U		1.3 U	1.3 U
T	Dichlorodifluoromethane	ug/m3					2.3		2.9	2.5
T	Ethyl acetate	ug/m3					0.97		0.61 J	0.86 J
T	Ethylbenzene	ug/m3					2		1.8	3.1
T	Heptane	ug/m3					8.2		0.61 U	2.1
T	Hexachlorobutadiene	ug/m3					1.6 U		1.6 U	1.6 U
T	Hexane	ug/m3					11		1.1	2.5
T	Isooctane	ug/m3					0.7 U		0.7	0.7 U
T	Methyl Tertbutyl Ether	ug/m3					0.54 U		0.54 U	0.54 U

**SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK**

Created by: BJS
January 13, 2016
Reviewed by: WAS
January 14, 2016

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction	Parameter	Units	SDG		C1512040		C1512040		C1512040	
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier	Result	Qualifier
T	1,1,1-Trichloroethane	ug/m3			828076-IA-003B5-01	FS	0.82 U		0.82 U	
T	1,1,2,2-Tetrachloroethane	ug/m3			P-003-B5-01		1 U		1 U	
T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3			12/10/2015		1.1 U		1.1 U	
T	1,1,2-Trichloroethane	ug/m3					0.82 U		0.82 U	
T	1,1-Dichloroethane	ug/m3					0.61 U		0.61 U	
T	1,1-Dichloroethene	ug/m3					0.59 U		0.59 U	
T	1,2,4-Trichlorobenzene	ug/m3					1.1 U		1.1 U	
T	1,2,4-Trimethylbenzene	ug/m3					0.64 J		0.69 J	
T	1,2-Dibromoethane	ug/m3					1.2 U		1.2 U	
T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3					1 U		1 U	
T	1,2-Dichlorobenzene	ug/m3					0.9 U		0.9 U	
T	1,2-Dichloroethane	ug/m3					0.61 U		0.73	
T	1,2-Dichloropropane	ug/m3					0.69 U		0.69 U	
T	1,3,5-Trimethylbenzene	ug/m3					0.64 J		0.69 J	
T	1,3-Butadiene	ug/m3					0.33 U		0.33 U	
T	1,3-Dichlorobenzene	ug/m3					0.9 U		0.9 U	
T	1,4-Dichlorobenzene	ug/m3					33		1.5	
T	1,4-Dioxane	ug/m3					1.1 U		1.1 U	
T	2-Butanone	ug/m3					1.2		1.5	
T	2-Hexanone	ug/m3					1.2 U		1.2 U	
T	2-Propanol	ug/m3					4.3		7.4	
T	4-Ethyltoluene	ug/m3					0.74 U		0.74 U	
T	4-Methyl-2-pentanone	ug/m3					0.78 J		1.2 U	
T	Acetone	ug/m3					12		14	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG			C1512040		C1512040		C1512040	
Location			P-003-B5-01		P-003-B5-01		P-003-B5-02	
Sample Date			12/10/2015		12/10/2015		12/10/2015	
Sample ID			828076-IA-003B5-01		828076-SS-003B5-01R		828076-IA-003B5-02	
Qc Code			FS		FS		FS	
Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	Allyl chloride	ug/m3	0.47 U		0.47 U		0.47 U	
T	Benzene	ug/m3	0.67		18		0.73	
T	Benzyl chloride	ug/m3	0.86 UJ		0.86 U		0.86 UJ	
T	Bromodichloromethane	ug/m3	1 U		1 U		1 U	
T	Bromoform	ug/m3	1.6 U		1.6 U		1.6 U	
T	Bromomethane	ug/m3	0.58 U		0.58 U		0.58 U	
T	Carbon disulfide	ug/m3	0.34 J		13		0.47	
T	Carbon tetrachloride	ug/m3	0.44		0.94 U		0.44	
T	Chlorobenzene	ug/m3	0.69 U		0.69 U		0.69 U	
T	Chloroethane	ug/m3	0.4 U		0.4 U		0.4 U	
T	Chloroform	ug/m3	0.73 U		0.73 U		0.54 J	
T	Chloromethane	ug/m3	0.93		0.31 U		1.1	
T	Cis-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
T	Cis-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
T	Cyclohexane	ug/m3	0.52 U		36		0.52 U	
T	Dibromochloromethane	ug/m3	1.3 U		1.3 U		1.3 U	
T	Dichlorodifluoromethane	ug/m3	2.8		2.4		2.8	
T	Ethyl acetate	ug/m3	0.97		1.1		1.7	
T	Ethylbenzene	ug/m3	0.65 U		5.2		0.61 J	
T	Heptane	ug/m3	0.41 J		37		1.4	
T	Hexachlorobutadiene	ug/m3	1.6 U		1.6 U		1.6 U	
T	Hexane	ug/m3	0.85		43		1.1	
T	Isooctane	ug/m3	0.7 U		0.7 U		0.7 U	
T	Methyl Tertbutyl Ether	ug/m3	0.54 U		0.54 U		0.54 U	

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512040		C1512040		C1512040		
Location		P-003-B5-01		P-003-B5-01		P-003-B5-02		
Sample Date		12/10/2015		12/10/2015		12/10/2015		
Sample ID		828076-IA-003B5-01		828076-SS-003B5-01R		828076-IA-003B5-02		
Qc Code		FS		FS		FS		
Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	Methylene chloride	ug/m3	0.42 J		0.52 U		0.52	
T	Propylene	ug/m3	0.26 U		0.26 U		0.26 U	
T	Styrene	ug/m3	0.64 U		0.64 U		2.1	
T	Tetrachloroethene	ug/m3	1 U		5.5		1 U	
T	Tetrahydrofuran	ug/m3	0.44 U		0.44 U		0.44 U	
T	Toluene	ug/m3	1.7		40		2.4	
T	trans-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.59 U	
T	trans-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
T	Trichloroethene	ug/m3	0.91		42		0.21 U	
T	Trichlorofluoromethane	ug/m3	2.5		1.9		1.6	
T	Vinyl acetate	ug/m3	0.53 U		0.53 U		0.53 U	
T	Vinyl bromide	ug/m3	0.66 U		0.66 U		0.66 U	
T	Vinyl chloride	ug/m3	0.1 U		0.38 U		0.1 U	
T	Xylene, o	ug/m3	0.65 U		8.3		0.61 J	
T	Xylenes (m&p)	ug/m3	1.3 J		30		2.1	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT

SCOBELL CHEMICAL SITE

BRIGHTON, NEW YORK

SDG		C1512040		C1512040		C1512040		
Location		P-003-B5-02		P-003-B8-01		P-003-B8-01		
Sample Date		12/10/2015		12/10/2015		12/10/2015		
Sample ID		828076-SS-003B5-02		828076-IA-003B8-01		828076-SS-003B8-01		
Qc Code		FS		FS		FS		
Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	1,1,1-Trichloroethane	ug/m3	0.82	U	0.82	U	0.82	U
T	1,1,2,2-Tetrachloroethane	ug/m3	1	U	1	U	1	U
T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.1	U	1.1	U	1.1	U
T	1,1,2-Trichloroethane	ug/m3	0.82	U	0.82	U	0.82	U
T	1,1-Dichloroethane	ug/m3	0.61	U	0.61	U	0.61	U
T	1,1-Dichloroethene	ug/m3	0.59	U	0.59	U	0.59	U
T	1,2,4-Trichlorobenzene	ug/m3	1.1	U	1.1	U	1.1	U
T	1,2,4-Trimethylbenzene	ug/m3	7.1		0.69	J	4.1	
T	1,2-Dibromoethane	ug/m3	1.2	U	1.2	U	1.2	U
T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1	U	1	U	1	U
T	1,2-Dichlorobenzene	ug/m3	0.9	U	0.9	U	0.9	U
T	1,2-Dichloroethane	ug/m3	0.61	U	0.61	U	0.61	U
T	1,2-Dichloropropane	ug/m3	0.69	U	0.69	U	0.69	U
T	1,3,5-Trimethylbenzene	ug/m3	3.7		0.64	J	2.5	
T	1,3-Butadiene	ug/m3	0.33	U	0.33	U	0.33	U
T	1,3-Dichlorobenzene	ug/m3	0.9	U	0.9	U	0.9	U
T	1,4-Dichlorobenzene	ug/m3	0.9	U	0.9	U	0.9	U
T	1,4-Dioxane	ug/m3	1.1	U	1.1	U	1.1	U
T	2-Butanone	ug/m3	1.9		1.5		1.8	
T	2-Hexanone	ug/m3	1.2	U	1.2	U	1.2	U
T	2-Propanol	ug/m3	12		17		6.9	
T	4-Ethyltoluene	ug/m3	1.4		0.74	U	1	
T	4-Methyl-2-pentanone	ug/m3	1.2	U	0.66	J	1.2	U
T	Acetone	ug/m3	20		21		17	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512040		C1512040		C1512040	
Fraction	Parameter	Location	Sample Date	Sample ID	Qc Code	Units	
T	Allyl chloride					ug/m3	
T	Benzene					ug/m3	
T	Benzyl chloride					ug/m3	
T	Bromodichloromethane					ug/m3	
T	Bromoform					ug/m3	
T	Bromomethane					ug/m3	
T	Carbon disulfide					ug/m3	
T	Carbon tetrachloride					ug/m3	
T	Chlorobenzene					ug/m3	
T	Chloroethane					ug/m3	
T	Chloroform					ug/m3	
T	Chloromethane					ug/m3	
T	Cis-1,2-Dichloroethene					ug/m3	
T	Cis-1,3-Dichloropropene					ug/m3	
T	Cyclohexane					ug/m3	
T	Dibromochloromethane					ug/m3	
T	Dichlorodifluoromethane					ug/m3	
T	Ethyl acetate					ug/m3	
T	Ethylbenzene					ug/m3	
T	Heptane					ug/m3	
T	Hexachlorobutadiene					ug/m3	
T	Hexane					ug/m3	
T	Isooctane					ug/m3	
T	Methyl Tertbutyl Ether					ug/m3	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT

SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction		Parameter	Units	SDG Location	Sample Date	Sample ID	Qc Code	Result	Qualifier	Result	Qualifier
T		Methylene chloride	ug/m3	C1512040	P-003-B5-02	12/10/2015	828076-SS-003B5-02	0.52 U	FS	0.52 U	FS
T		Propylene	ug/m3					0.26 U		0.26 U	
T		Styrene	ug/m3					1.2		1.3	
T		Tetrachloroethene	ug/m3					16		7.3	
T		Tetrahydrofuran	ug/m3					0.44 U		0.44 U	
T		Toluene	ug/m3					12		7.5	
T		trans-1,2-Dichloroethene	ug/m3					0.59 U		0.59 U	
T		trans-1,3-Dichloropropene	ug/m3					0.68 U		0.68 U	
T		Trichloroethene	ug/m3					59		42	
T		Trichlorofluoromethane	ug/m3					1.5		1.7	
T		Vinyl acetate	ug/m3					0.53 U		0.53 U	
T		Vinyl bromide	ug/m3					0.66 U		0.66 U	
T		Vinyl chloride	ug/m3					0.38 U		0.38 U	
T		Xylene, o	ug/m3					3.8		2.4	
T		Xylenes (m&p)	ug/m3					11		7.7	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction		Parameter	Units	SDG Location Sample Date Sample ID Qc Code	C1512040 P-003-B8-02 12/10/2015 828076-1A-003B8-02 FS	C1512040 P-003-B8-02 12/10/2015 828076-SS-003B8-02 FS
					Result	Qualifier
T		1,1,1-Trichloroethane	ug/m3		0.82 U	0.82 U
T		1,1,2,2-Tetrachloroethane	ug/m3		1 U	1 U
T		1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3		1.1 U	1.1 U
T		1,1,2-Trichloroethane	ug/m3		0.82 U	0.82 U
T		1,1-Dichloroethane	ug/m3		0.61 U	0.61 U
T		1,1-Dichloroethene	ug/m3		0.59 U	0.59 U
T		1,2,4-Trichlorobenzene	ug/m3		1.1 U	1.1 U
T		1,2,4-Trimethylbenzene	ug/m3		0.79	8.8
T		1,2-Dibromoethane	ug/m3		1.2 U	1.2 U
T		1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3		1 U	1 U
T		1,2-Dichlorobenzene	ug/m3		0.9 U	0.9 U
T		1,2-Dichloroethane	ug/m3		0.61 U	0.61 U
T		1,2-Dichloropropane	ug/m3		0.69 U	0.69 U
T		1,3,5-Trimethylbenzene	ug/m3		0.74	4.7
T		1,3-Butadiene	ug/m3		0.33 U	0.33 U
T		1,3-Dichlorobenzene	ug/m3		0.9 U	0.9 U
T		1,4-Dichlorobenzene	ug/m3		0.9 U	0.9 U
T		1,4-Dioxane	ug/m3		1.1 U	1.1 U
T		2-Butanone	ug/m3		1	0.88 U
T		2-Hexanone	ug/m3		1.2 U	1.2 U
T		2-Propanol	ug/m3		4.1	0.37 U
T		4-Ethyltoluene	ug/m3		0.74 U	2.5
T		4-Methyl-2-pentanone	ug/m3		1.2 U	1.2 U
T		Acetone	ug/m3		19	54

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512040		C1512040	
Location		P-003-B8-02		P-003-B8-02	
Sample Date		12/10/2015		12/10/2015	
Sample ID		828076-IA-003B8-02		828076-SS-003B8-02	
Fraction	Parameter	Units	Result	Qualifier	Result
T	Allyl chloride	ug/m3	0.47 U	FS	0.47 U
T	Benzene	ug/m3	0.45 J		0.48 U
T	Benzyl chloride	ug/m3	0.86 UJ		0.86 U
T	Bromodichloromethane	ug/m3	1 U		1 U
T	Bromoform	ug/m3	1.6 U		1.6 U
T	Bromomethane	ug/m3	0.58 U		0.58 U
T	Carbon disulfide	ug/m3	0.47 U		29
T	Carbon tetrachloride	ug/m3	0.25 U		0.94 U
T	Chlorobenzene	ug/m3	0.69 U		0.69 U
T	Chloroethane	ug/m3	0.4 U		0.4 U
T	Chloroform	ug/m3	0.73 U		0.73 U
T	Chloromethane	ug/m3	0.52		0.31 U
T	Cis-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U
T	Cis-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U
T	Cyclohexane	ug/m3	0.52 U		21
T	Dibromochloromethane	ug/m3	1.3 U		1.3 U
T	Dichlorodifluoromethane	ug/m3	1.2		0.74 U
T	Ethyl acetate	ug/m3	1		0.9 U
T	Ethylbenzene	ug/m3	0.65 U		7.5
T	Heptane	ug/m3	0.45 J		150
T	Hexachlorobutadiene	ug/m3	1.6 U		1.6 U
T	Hexane	ug/m3	0.63		180
T	Isooctane	ug/m3	0.7 U		0.7 U
T	Methyl Tertbutyl Ether	ug/m3	0.54 U		0.54 U

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512040		C1512040	
Location		P-003-B8-02		P-003-B8-02	
Sample Date		12/10/2015		12/10/2015	
Sample ID		828076-IA-003B8-02		828076-SS-003B8-02	
Qc Code		FS		FS	
Fraction	Parameter	Units	Result	Qualifier	Result
T	Methylene chloride	ug/m3	0.45 J		0.52 U
T	Propylene	ug/m3	0.26 U		0.26 U
T	Styrene	ug/m3	0.64 U		0.64 U
T	Tetrachloroethene	ug/m3	1 U		2.4
T	Tetrahydrofuran	ug/m3	0.44 U		0.44 U
T	Toluene	ug/m3	1.8		38
T	trans-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U
T	trans-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U
T	Trichloroethene	ug/m3	0.21 U		1.5
T	Trichlorofluoromethane	ug/m3	0.73 J		1.5
T	Vinyl acetate	ug/m3	0.53 U		0.53 U
T	Vinyl bromide	ug/m3	0.66 U		0.66 U
T	Vinyl chloride	ug/m3	0.1 U		0.38 U
T	Xylene, o	ug/m3	0.52 J		7.3
T	Xylenes (m&p)	ug/m3	1.5		23

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Class	Fraction	Parameter	SDG		Sample Date	Sample ID	Qc Code	Units	C1512042		C1512042		C1512042	
			Location	Sample Date					Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	T	1,1,1-Trichloroethane						ug/m3	0.82 U		0.82 U		0.82 U	
VOCs	T	1,1,2,2-Tetrachloroethane						ug/m3	1 U		1 U		1 U	
VOCs	T	1,1,2-Trichloro-1,2,2-Trifluoroethane						ug/m3	1.1 U		1.1 U		1.1 U	
VOCs	T	1,1,2-Trichloroethane						ug/m3	0.82 U		0.82 U		0.82 U	
VOCs	T	1,1-Dichloroethane						ug/m3	0.61 U		0.61 U		0.61 U	
VOCs	T	1,1-Dichloroethene						ug/m3	0.59 U		0.59 U		0.59 U	
VOCs	T	1,2,4-Trichlorobenzene						ug/m3	1.1 U		1.1 U		1.1 U	
VOCs	T	1,2,4-Trimethylbenzene						ug/m3	0.49 J		0.79		1.8	
VOCs	T	1,2-Dibromoethane						ug/m3	1.2 U		1.2 U		1.2 U	
VOCs	T	1,2-Dichloro-1,1,2,2-tetrafluoroethane						ug/m3	1 U		1 U		1 U	
VOCs	T	1,2-Dichlorobenzene						ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	1,2-Dichloroethane						ug/m3	0.61 U		1.7		0.61 U	
VOCs	T	1,2-Dichloropropane						ug/m3	0.69 U		0.69 U		0.69 U	
VOCs	T	1,3,5-Trimethylbenzene						ug/m3	0.74 U		0.84		1.3	
VOCs	T	1,3-Butadiene						ug/m3	0.33 U		0.33 U		0.33 U	
VOCs	T	1,3-Dichlorobenzene						ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	1,4-Dichlorobenzene						ug/m3	0.9 U		0.9 U		0.9 U	
VOCs	T	1,4-Dioxane						ug/m3	1.1 U		1.1 U		1.1 U	
VOCs	T	2-Butanone						ug/m3	0.74 J		1.5		1.5	
VOCs	T	2-Hexanone						ug/m3	1.2 U		1.2 U		1.2 U	
VOCs	T	2-Propanol						ug/m3	1		3.6		4 J	
VOCs	T	4-Ethyltoluene						ug/m3	0.74 U		0.74 U		0.54 J	
VOCs	T	4-Methyl-2-pentanone						ug/m3	1.2 U		1.1 J		1.2 U	
VOCs	T	Acetone						ug/m3	6.3		19		19	

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

	SDG			C1512042		C1512042		C1512042	
	Location	Sample Date	Sample ID	Qc Code	Units	Fraction	Parameter	Result	Qualifier
								FS	FS
VOCs	T	Allyl chloride	ug/m3					0.47 U	0.47 U
VOCs	T	Benzene	ug/m3					0.77	0.8
VOCs	T	Benzyl chloride	ug/m3					0.86 UJ	0.86 U
VOCs	T	Bromodichloromethane	ug/m3					1 U	1 U
VOCs	T	Bromoform	ug/m3					1.6 U	1.6 U
VOCs	T	Bromomethane	ug/m3					0.58 U	0.58 U
VOCs	T	Carbon disulfide	ug/m3					0.47 U	0.47 U
VOCs	T	Carbon tetrachloride	ug/m3					0.44	0.94 U
VOCs	T	Chlorobenzene	ug/m3					0.69 U	0.69 U
VOCs	T	Chloroethane	ug/m3					0.4 U	0.4 U
VOCs	T	Chloroform	ug/m3					0.73 U	5.6
VOCs	T	Chloromethane	ug/m3					0.99	0.31 U
VOCs	T	Cis-1,2-Dichloroethene	ug/m3					0.59 U	0.59 U
VOCs	T	Cis-1,3-Dichloropropene	ug/m3					0.68 U	0.68 U
VOCs	T	Cyclohexane	ug/m3					0.52 U	0.52 UJ
VOCs	T	Dibromochloromethane	ug/m3					1.3 U	1.3 U
VOCs	T	Dichlorodifluoromethane	ug/m3					2.8	2.6
VOCs	T	Ethyl acetate	ug/m3					0.4 J	0.54 J
VOCs	T	Ethylbenzene	ug/m3					0.65 U	0.91
VOCs	T	Heptane	ug/m3					0.45 J	0.61 UJ
VOCs	T	Hexachlorobutadiene	ug/m3					1.6 U	1.6 U
VOCs	T	Hexane	ug/m3					0.85	0.53 U
VOCs	T	Isooctane	ug/m3					0.7 U	0.7 U
VOCs	T	Methyl Tertbutyl Ether	ug/m3					0.54 U	0.54 U

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Created by: BJS
January 13, 2016
Reviewed by: WAS
January 14, 2016

Table 2

SUMMARY OF ANALYTICAL RESULTS
 DATA USABILITY SUMMARY REPORT
 DECEMBER 2015 AIR SAMPLING EVENT
 SCOBELL CHEMICAL SITE
 BRIGHTON, NEW YORK

SDG		C1512042		C1512042		C1512042	
Location		P-003-B4-01		P-003-B6-01		P-003-B6-01	
Sample Date		12/11/2015		12/11/2015		12/11/2015	
Sample ID		828076-SS-003B4-01R1		828076-IA-003B6-01		828076-SS-003B6-01	
Fraction	Parameter	Qc Code	Units	Result	Qualifier	Result	Qualifier
T	1,1,1-Trichloroethane		ug/m3	0.82 U		0.6 J	
T	1,1,2,2-Tetrachloroethane		ug/m3	1 U		1 U	
T	1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/m3	1.1 U		1.1 U	
T	1,1,2-Trichloroethane		ug/m3	0.82 U		0.82 U	
T	1,1-Dichloroethane		ug/m3	0.61 U		0.61 U	
T	1,1-Dichloroethene		ug/m3	0.59 U		0.59 U	
T	1,2,4-Trichlorobenzene		ug/m3	1.1 U		1.1 U	
T	1,2,4-Trimethylbenzene		ug/m3	1.8		9.8	
T	1,2-Dibromoethane		ug/m3	1.2 U		1.2 U	
T	1,2-Dichloro-1,1,2,2-tetrafluoroethane		ug/m3	1 U		1 U	
T	1,2-Dichlorobenzene		ug/m3	0.9 U		0.9 U	
T	1,2-Dichloroethane		ug/m3	0.61 U		0.61 U	
T	1,2-Dichloropropane		ug/m3	0.69 U		0.69 U	
T	1,3,5-Trimethylbenzene		ug/m3	1.3		5.8	
T	1,3-Butadiene		ug/m3	0.33 U		0.33 U	
T	1,3-Dichlorobenzene		ug/m3	0.9 U		0.9 U	
T	1,4-Dichlorobenzene		ug/m3	0.9 U		0.9 U	
T	1,4-Dioxane		ug/m3	1.1 U		1.1 U	
T	2-Butanone		ug/m3	1.1		5.5	
T	2-Hexanone		ug/m3	1.2 U		1.2 U	
T	2-Propanol		ug/m3	7.4 J		3.5	
T	4-Ethyltoluene		ug/m3	0.54 J		2.4	
T	4-Methyl-2-pentanone		ug/m3	1.2 U		1.2 U	
T	Acetone		ug/m3	14		23	

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512042		C1512042		C1512042		
Location		P-003-B4-01		P-003-B6-01		P-003-B6-01		
Sample Date		12/11/2015		12/11/2015		12/11/2015		
Sample ID		828076-SS-003B4-01R1		828076-IA-003B6-01		828076-SS-003B6-01		
Qc Code		FD		FS		FS		
Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	Allyl chloride	ug/m3	0.47 U		0.47 U		0.47 U	
T	Benzene	ug/m3	0.77		1		8.3	
T	Benzyl chloride	ug/m3	0.86 U		0.86 UJ		0.86 U	
T	Bromodichloromethane	ug/m3	1 U		1 U		1 U	
T	Bromoform	ug/m3	1.6 U		1.6 U		1.6 U	
T	Bromomethane	ug/m3	0.58 U		0.58 U		0.58 U	
T	Carbon disulfide	ug/m3	0.44 J		0.37 J		57	
T	Carbon tetrachloride	ug/m3	0.94 U		0.44		0.94 U	
T	Chlorobenzene	ug/m3	0.69 U		0.69 U		0.69 U	
T	Chloroethane	ug/m3	0.4 U		0.4 U		0.4 U	
T	Chloroform	ug/m3	5.7		0.73		2.6	
T	Chloromethane	ug/m3	0.31 U		1.1		0.31 U	
T	Cis-1,2-Dichloroethene	ug/m3	0.59 U		0.59 U		0.75	
T	Cis-1,3-Dichloropropene	ug/m3	0.68 U		0.68 U		0.68 U	
T	Cyclohexane	ug/m3	0.93 J		1		10	
T	Dibromochloromethane	ug/m3	1.3 U		1.3 U		1.3 U	
T	Dichlorodifluoromethane	ug/m3	2.6		2.9		0.74 U	
T	Ethyl acetate	ug/m3	0.65 J		1.3		1.1	
T	Ethylbenzene	ug/m3	0.91		0.65		6.9	
T	Heptane	ug/m3	0.74 J		1.1		31	
T	Hexachlorobutadiene	ug/m3	1.6 U		1.6 U		1.6 U	
T	Hexane	ug/m3	0.53 U		1.4		27	
T	Isooctane	ug/m3	0.7 U		0.93		0.7 U	
T	Methyl Tertbutyl Ether	ug/m3	0.54 U		0.54 U		0.54 U	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction		Parameter	Units	Qc Code	Sample ID	Sample Date	Location	SDG	C1512042		C1512042		C1512042	
									FD	Result	Qualifier	FS	Result	Qualifier
T		Methylene chloride	ug/m3						0.52 U	1			0.52 U	
T		Propylene	ug/m3						0.26 U	0.26 U			0.26 U	
T		Styrene	ug/m3						0.64 U	0.64 U			0.64 U	
T		Tetrachloroethene	ug/m3						19	1.3			56	
T		Tetrahydrofuran	ug/m3						0.44 U	0.44 U			0.44 U	
T		Toluene	ug/m3						4.1	3.1			31	
T		trans-1,2-Dichloroethene	ug/m3						0.59 U	0.59 U			0.59 U	
T		trans-1,3-Dichloropropene	ug/m3						0.68 U	0.68 U			0.68 U	
T		Trichloroethene	ug/m3						56	1.2			2500	
T		Trichlorofluoromethane	ug/m3						1.5	1.7			1.6	
T		Vinyl acetate	ug/m3						0.53 U	0.53 U			0.53 U	
T		Vinyl bromide	ug/m3						0.66 U	0.66 U			0.66 U	
T		Vinyl chloride	ug/m3						0.38 U	0.1 U			0.38 U	
T		Xylene, o	ug/m3						1.1	0.78			8.1	
T		Xylenes (m&p)	ug/m3						3	2.3			20	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction	Parameter	Units	SDG		C1512042		C1512042		C1512042	
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier	Result	Qualifier
T	1,1,1-Trichloroethane	ug/m3	P-003-B6-02	12/11/2015	828076-IA-003B6-02	FS	0.82 U		0.82 U	
T	1,1,2,2-Tetrachloroethane	ug/m3					1 U		1 U	
T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3					1.1 U		1.1 U	
T	1,1,2-Trichloroethane	ug/m3					0.82 U		0.82 U	
T	1,1-Dichloroethane	ug/m3					0.61 U		0.61 U	
T	1,1-Dichloroethene	ug/m3					0.59 U		0.59 U	
T	1,2,4-Trichlorobenzene	ug/m3					1.1 U		1.1 U	
T	1,2,4-Trimethylbenzene	ug/m3					0.79		0.64 J	
T	1,2-Dibromoethane	ug/m3					1.2 U		1.2 U	
T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3					1 U		1 U	
T	1,2-Dichlorobenzene	ug/m3					0.9 U		0.9 U	
T	1,2-Dichloroethane	ug/m3					0.61 U		0.61 U	
T	1,2-Dichloropropane	ug/m3					0.69 U		0.69 U	
T	1,3,5-Trimethylbenzene	ug/m3					0.79		0.74 U	
T	1,3-Butadiene	ug/m3					0.33 U		0.33 U	
T	1,3-Dichlorobenzene	ug/m3					0.9 U		0.9 U	
T	1,4-Dichlorobenzene	ug/m3					0.9 U		0.9 U	
T	1,4-Dioxane	ug/m3					1.1 U		1.1 U	
T	2-Butanone	ug/m3					0.97		0.97	
T	2-Hexanone	ug/m3					1.2 U		1.2 U	
T	2-Propanol	ug/m3					5		7.1	
T	4-Ethyltoluene	ug/m3					0.74 U		0.74 U	
T	4-Methyl-2-pentanone	ug/m3					1.2 U		1.2 U	
T	Acetone	ug/m3					16		12	

Table 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG		C1512042		C1512042		C1512042		
Location		P-003-B6-02		P-003-B6-02		P-003-B9-01		
Sample Date		12/11/2015		12/11/2015		12/11/2015		
Sample ID		828076-IA-003B6-02		828076-SS-003B6-02		828076-IA-003B9-01		
Qc Code		FS		FS		FS		
Fraction	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	Allyl chloride	ug/m3	0.47	U	0.47	U	0.47	U
T	Benzene	ug/m3	0.89		4.9		0.54	
T	Benzyl chloride	ug/m3	0.86	U	0.86	U	0.86	U
T	Bromodichloromethane	ug/m3	1	U	1	U	1	U
T	Bromoform	ug/m3	1.6	U	1.6	U	1.6	U
T	Bromomethane	ug/m3	0.58	U	0.58	U	0.58	U
T	Carbon disulfide	ug/m3	0.34	J	2.9		0.47	U
T	Carbon tetrachloride	ug/m3	0.44		0.94	U	0.44	
T	Chlorobenzene	ug/m3	0.69	U	0.69	U	0.69	U
T	Chloroethane	ug/m3	0.4	U	0.4	U	0.4	U
T	Chloroform	ug/m3	0.54	J	3.8		0.63	J
T	Chloromethane	ug/m3	0.89		0.31	U	0.81	
T	Cis-1,2-Dichloroethene	ug/m3	0.59	U	1.7		0.59	U
T	Cis-1,3-Dichloropropene	ug/m3	0.68	U	0.68	U	0.68	U
T	Cyclohexane	ug/m3	1		5.2		0.52	U
T	Dibromochloromethane	ug/m3	1.3	U	1.3	U	1.3	U
T	Dichlorodifluoromethane	ug/m3	2.7		2.4		2.7	
T	Ethyl acetate	ug/m3	0.65	J	0.79	J	0.4	J
T	Ethylbenzene	ug/m3	0.52	J	4.2		0.65	U
T	Heptane	ug/m3	0.86		11		0.45	J
T	Hexachlorobutadiene	ug/m3	1.6	U	1.6	U	1.6	U
T	Hexane	ug/m3	1.4		9.2		0.67	
T	Isooctane	ug/m3	0.61	J	0.7	U	0.7	U
T	Methyl Tertbutyl Ether	ug/m3	0.54	U	0.54	U	0.54	U

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction	Parameter	Units	SDG		C1512042		C1512042		C1512042	
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier	Result	Qualifier
T	Methylene chloride	ug/m3	P-003-B6-02	12/11/2015	828076-IA-003B6-02	FS	0.52	U	0.52	U
T	Propylene	ug/m3					0.26	U	0.26	U
T	Styrene	ug/m3					0.64	U	0.64	U
T	Tetrachloroethene	ug/m3					1	U	1	U
T	Tetrahydrofuran	ug/m3					0.44	U	0.44	U
T	Toluene	ug/m3					2.8		1.7	
T	trans-1,2-Dichloroethene	ug/m3					0.59	U	0.59	U
T	trans-1,3-Dichloropropene	ug/m3					0.68	U	0.68	U
T	Trichloroethene	ug/m3					0.21	U	0.21	U
T	Trichlorofluoromethane	ug/m3					1.6		1.7	
T	Vinyl acetate	ug/m3					0.53	U	0.53	U
T	Vinyl bromide	ug/m3					0.66	U	0.66	U
T	Vinyl chloride	ug/m3					0.1	U	0.1	U
T	Xylene, o	ug/m3					0.61	J	0.65	U
T	Xylenes (m&p)	ug/m3					1.6		1.4	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction	Parameter	Units	SDG		C1512042		C1512042		C1512042	
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier	Result	Qualifier
T	1,1,1-Trichloroethane	ug/m3			828076-SS-003B9-01	FS	0.82 U		0.82 U	
T	1,1,2,2-Tetrachloroethane	ug/m3			P-003-B9-02		1 U		1 U	
T	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3			12/11/2015		1.1 U		0.84 J	
T	1,1,2-Trichloroethane	ug/m3			828076-IA-003B9-02	FS	0.82 U		0.82 U	
T	1,1-Dichloroethane	ug/m3					0.61 U		0.61 U	
T	1,1-Dichloroethene	ug/m3					0.59 U		0.59 U	
T	1,2,4-Trichlorobenzene	ug/m3					1.1 U		1.1 U	
T	1,2,4-Trimethylbenzene	ug/m3					5.9		6.4	
T	1,2-Dibromoethane	ug/m3					1.2 U		1.2 U	
T	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3					1 U		1 U	
T	1,2-Dichlorobenzene	ug/m3					0.9 U		0.9 U	
T	1,2-Dichloroethane	ug/m3					0.61 U		0.61 U	
T	1,2-Dichloropropane	ug/m3					0.69 U		0.69 U	
T	1,3,5-Trimethylbenzene	ug/m3					3.6		3.4	
T	1,3-Butadiene	ug/m3					0.33 U		0.33 U	
T	1,3-Dichlorobenzene	ug/m3					0.9 U		0.9 U	
T	1,4-Dichlorobenzene	ug/m3					0.9 U		0.9 U	
T	1,4-Dioxane	ug/m3					1.1 U		1.1 U	
T	2-Butanone	ug/m3					1.7		1.9	
T	2-Hexanone	ug/m3					1.2 U		1.2 U	
T	2-Propanol	ug/m3					11		7.9	
T	4-Ethyltoluene	ug/m3					1.1		1.4	
T	4-Methyl-2-pentanone	ug/m3					1.2 U		0.66 J	
T	Acetone	ug/m3					20		21	

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction	Parameter	Units	SDG			C1512042			C1512042			C1512042		
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
T	Allyl chloride	ug/m3					0.47 U		0.47 U			0.47 U		
T	Benzene	ug/m3					7.7		0.67			4.3		
T	Benzyl chloride	ug/m3					0.86 U		0.86 U			0.86 U		
T	Bromodichloromethane	ug/m3					1 U		1 U			1 U		
T	Bromoform	ug/m3					1.6 U		1.6 U			1.6 U		
T	Bromomethane	ug/m3					0.58 U		0.58 U			0.58 U		
T	Carbon disulfide	ug/m3					4.7		0.47			1.1		
T	Carbon tetrachloride	ug/m3					0.94 U		0.44			0.94 U		
T	Chlorobenzene	ug/m3					0.69 U		0.69 U			0.69 U		
T	Chloroethane	ug/m3					0.4 U		0.4 U			0.4 U		
T	Chloroform	ug/m3					2.8		0.68 J			19		
T	Chloromethane	ug/m3					0.31 U		0.87			0.31 U		
T	Cis-1,2-Dichloroethene	ug/m3					0.59 U		0.59 U			0.59 U		
T	Cis-1,3-Dichloropropene	ug/m3					0.68 U		0.68 U			0.68 U		
T	Cyclohexane	ug/m3					13		0.52 U			4.4		
T	Dibromochloromethane	ug/m3					1.3 U		1.3 U			1.3 U		
T	Dichlorodifluoromethane	ug/m3					2.5		2.8			0.74 U		
T	Ethyl acetate	ug/m3					1		0.47 J			0.97		
T	Ethylbenzene	ug/m3					3.1		0.65 U			2.9		
T	Heptane	ug/m3					18		0.41 J			8.4		
T	Hexachlorobutadiene	ug/m3					1.6 U		1.6 U			1.6 U		
T	Hexane	ug/m3					21		0.92			7.2		
T	Isooctane	ug/m3					0.7 U		0.7 U			0.7 U		
T	Methyl Tertbutyl Ether	ug/m3					0.54 U		0.54 U			0.54 U		

Table 2

SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Fraction		Parameter	Units	SDG	C1512042		C1512042		C1512042	
				Location	P-003-B9-01		P-003-B9-02		P-003-B9-02	
				Sample Date	12/11/2015		12/11/2015		12/11/2015	
				Sample ID	828076-SS-003B9-01		828076-IA-003B9-02		828076-SS-003B9-02	
				Qc Code	FS		FS		FS	
					Result	Qualifier	Result	Qualifier	Result	Qualifier
T		Methylene chloride	ug/m3		0.52 U		0.52		0.38 J	
T		Propylene	ug/m3		0.26 U		0.26 U		0.26 U	
T		Styrene	ug/m3		0.64 U		0.64 U		1.2	
T		Tetrachloroethene	ug/m3		4.2		1 U		3.3	
T		Tetrahydrofuran	ug/m3		0.44 U		0.44 U		0.44 U	
T		Toluene	ug/m3		15		1.7		14	
T		trans-1,2-Dichloroethene	ug/m3		0.59 U		0.59 U		0.59 U	
T		trans-1,3-Dichloropropene	ug/m3		0.68 U		0.68 U		0.68 U	
T		Trichloroethene	ug/m3		3.5		0.21 U		0.86	
T		Trichlorofluoromethane	ug/m3		1.9		1.6		2.2	
T		Vinyl acetate	ug/m3		0.53 U		0.53 U		0.53 U	
T		Vinyl bromide	ug/m3		0.66 U		0.66 U		0.66 U	
T		Vinyl chloride	ug/m3		0.38 U		0.1 U		0.38 U	
T		Xylene, o	ug/m3		4.1		0.65 U		3.6	
T		Xylenes (m&p)	ug/m3		12		1 J		11	

Table 3
SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Val Reason Code	Units
C1512036	CT-TCE-VC	C1512036-007A	828076-IA-003B10-04	Cyclohexane	1.4		1.4 J		FD	ug/m3
C1512036	CT-TCE-VC	C1512036-007A	828076-IA-003B10-04	Trichloroethene	1.4		1.4 J		FD	ug/m3
C1512036	CT-TCE-VC	C1512036-010A	828076-IA-003B10-04D	Cyclohexane	0.52	U	0.52 UJ		FD	ug/m3
C1512036	CT-TCE-VC	C1512036-010A	828076-IA-003B10-04D	Trichloroethene	0.59		0.59 J		FD	ug/m3
C1512036	TO15	C1512036-014A	828076-SVP15005	2-Propanol	0.37	U	0.37 UJ		FD	ug/m3
C1512036	TO15	C1512036-014A	828076-SVP15005	Acetone	2		2 J		FD	ug/m3
C1512036	TO15	C1512036-015A	828076-SVP15005D	2-Propanol	7.9		7.9 J		FD	ug/m3
C1512036	TO15	C1512036-015A	828076-SVP15005D	Acetone	3.9		3.9 J		FD	ug/m3
C1512040	CT-TCE-VC	C1512040-001A	828076-AA-003-01	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512040	CT-TCE-VC	C1512040-002A	828076-AA-004-01	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512040	CT-TCE-VC	C1512040-003A	828076-AA-005-01	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512040	CT-TCE-VC	C1512040-004A	828076-IA-003B3-01	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512040	CT-TCE-VC	C1512040-005A	828076-IA-003B3-02	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512040	CT-TCE-VC	C1512040-006A	828076-IA-003B4-02	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512040	CT-TCE-VC	C1512040-007A	828076-IA-003B5-01	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512040	CT-TCE-VC	C1512040-008A	828076-IA-003B5-02	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512040	CT-TCE-VC	C1512040-009A	828076-IA-003B8-01	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512040	CT-TCE-VC	C1512040-010A	828076-IA-003B8-02	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512042	CT-TCE-VC	C1512042-001A	828076-AA-006-01	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512042	CT-TCE-VC	C1512042-002A	828076-IA-003B4-01R	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512042	CT-TCE-VC	C1512042-003A	828076-IA-003B6-01	Benzyl chloride	0.86	U	0.86 UJ		LCS-L	ug/m3
C1512042	TO15	C1512042-007A	828076-SS-003B4-01R	2-Propanol	4		4 J		FD	ug/m3
C1512042	TO15	C1512042-007A	828076-SS-003B4-01R	Cyclohexane	0.52	U	0.52 UJ		FD	ug/m3
C1512042	TO15	C1512042-007A	828076-SS-003B4-01R	Heptane	0.61	U	0.61 UJ		FD	ug/m3
C1512042	TO15	C1512042-007A	828076-SS-003B4-01R	Styrene	0.81		0.81 J		FD	ug/m3
C1512042	TO15	C1512042-008A	828076-SS-003B4-01RD	2-Propanol	7.4		7.4 J		FD	ug/m3
C1512042	TO15	C1512042-008A	828076-SS-003B4-01RD	Cyclohexane	0.93		0.93 J		FD	ug/m3
C1512042	TO15	C1512042-008A	828076-SS-003B4-01RD	Heptane	0.74		0.74 J		FD	ug/m3

Table 3
SUMMARY OF QUALIFICATION ACTIONS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 AIR SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Val Reason Code	Units
C1512042	TO15	C1512042-008A	828076-SS-003B4-01RD	Styrene	0.64	U	0.64	UJ	FD	ug/m3

Notes:

J = The reported concentration is considered an estimated value

UJ = The target compound was not detected and the reporting limit is considered to be estimated

U = The target compound was not detected above the reporting limit or was qualified as not detected

FD = Field duplicate relative percent difference (RPD) limit exceeded

LCS-L = Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery low

ug/m3 = microgram per meter cubed

ATTACHMENT A **SUMMARY OF QC LIMITS**

PARAMETER	QC TEST	ANALYTE	Air
			(%R)
Volatiles	Surrogate	All Surrogate Compounds	Lab Limits
	LCS	All Target Compounds	70 - 130

Notes:
 LCS - Laboratory Control Sample
 %R = percent recovery
 QC Limits are based on USEPA Region II Data Validation Guidelines and Project QA/QC Objective

ATTACHMENT B

VOCs in Air

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Scobell Chemical

Method : TO-15

Laboratory and SDG(s): Centek

SDG# C1512036

Date: 12/29/2015

Reviewer: Willie Stone

Review Level ☒ NYSDEC DUSR

USEPA Region II Guideline

Control limits are from EPA Region 2 - SOP# HW-31, October 2006.

1. ☒ **Case Narrative Review and Data Package Completeness** COMMENTS
Were problems noted? *No sample collected for 82 8076-SUP16005*
Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)
2. ☒ **Holding time and Sample Collection**
All samples were analyzed within the 30 day holding time YES NO (circle one)
3. ☒ **QC Blanks** (use 5x rule for calculating action levels)
Are method blanks free of contamination? YES NO (circle one)
Are Trip blanks free of contamination? YES NO NA (circle one)
4. ☒ **Instrument Tuning**
Were all results were within method criteria. YES NO (circle one)
No problems noted
5. ☒ **Instrument Calibration - Data Package Narrative review.**
Did the laboratory narrative identify compounds that were outside of method criteria in the initial calibration and/or continuing calibration standards? YES NO
Results not qualified - Nothing noted in narrative
Did the laboratory qualify results based on initial or continuing calibration exceedances? YES NO NA
6. ☒ **Internal Standards** (Area Limits = +40% to -40%, RT's within 20 seconds of mid point cal Std)
Were all results within criteria? YES NO (circle one)
7. ☒ **Surrogate Recovery**
Were all results were within laboratory limits? YES NO (circle one)
8. ☒ **Field Duplicates/replicates**
Were Field Duplicates submitted/analyzed? YES NO
Were all results were within criteria (Field Dup RPD goal = 50). YES NO NA (circle one)
See attached
9. ☒ **Laboratory Control Sample Results** (limits 70-130%)
No qualification needed
Were all results were within limits? YES NO (circle one)
10. ☒ **Raw Data Review and Calculation Checks**
See attached.
11. ☒ **Electronic Data Review and Edits**
Does the EDD match the Form I's? YES NO (circle one)
12. ☐ **TIC Review and DUSR Table 1** (sample Listing), **Table 2** (results summary), **Table 3** (Reason Codes), **Table 4** (TIC's). Did lab report TICs? YES NO (circle one)

Sample ID	828076-IA-003B10-04		
Compound	Result	Dup	RPD
1,2,4-TMB	0.93	0.74	22.75
1,3,5-TMB	0.93	0.69	29.63
acetone	13	19	-37.50
benzene	0.8	0.73	9.15
carbon tet	0.44	0.44	0.00
chloroform	1.2	1.2	0.00
chloromethane	0.93	0.89	4.40
cyclohexane	1.4		200.00
ethyl acetate	0.79	0.76	3.87
ethyl benzene	0.56	0.52	7.41
freon 11	1.5	1.6	-6.45
freon 12	2.6	2.6	0.00
heptane	0.57	0.45	23.53
hexane	1.2	1.3	-8.00
isopropyl alc	6.4	4.6	32.73
m+p	1.9	1.6	17.14
methyl ethyl ketone	2.3	2.2	4.44
MECL2	0.76	0.87	-13.50
o-xylene	0.61	0.56	8.55
styrene	0.51	0.51	0.00
toluene	3	2.1	35.29
TCE	1.4	0.59	81.41

Sample ID	828076-SVP15005		
Compound	Result	Dup	RPD
1,2,4-TMB	0.59	0.64	-8.13
acetone	2	3.9	-64.41
benzene	1.3	1.3	0.00
bromodichloromethane	1.2	1.2	0.00
carbon disulfide	2	2	0.00
chloroform	27	23	16.00
cis-1,2-dichloroethene	6.5	6.4	1.55
cyclohexane	0.76	0.76	0.00
ethylbenzene	0.91	0.87	4.49
freon 11	1.1	1.1	0.00
freon 12	2.4	2.4	0.00
hexane	0.46	0.53	-14.14
m+p	1.5	1.5	0.00
methyl ethyl ketone	0.62	0.65	-4.72
o-xylene	0.65	0.65	0.00
PCE	81	72	11.76
toluene	120	98	20.18
trans-1,2-dichloroethene	0.91		200.00
TCE	130	110	16.67
IPA	0	7.9	-200.00

Sample ID	828076-SS-003B4-01R		
Compound	Result	Dup	RPD
1,2,4-TMB	1.8	1.8	0.00
1,3,5-TMB	1.3	1.3	0.00
4-ethyltoluene	0.54	0.54	0.00
acetone	19	14	30.30
benzene	0.8	0.77	3.82
carbon disulfide	0	0.44	-200.00 ok, <RL diff
chloroform	5.6	5.7	-1.77
cyclohexane	0	0.93	-200.00
ethyl acetate	0.54	0.65	-18.49
ethylbenzene	0.91	0.91	0.00
freon 11	1.4	1.5	-6.90
freon 12	2.6	2.6	0.00
Heptane	0	0.74	-200.00
IPA	4	7.4	-59.65
m+p	3.3	3	9.52
methyl ethyl ketone	1.5	1.1	30.77
o-xylene	1.1	1.1	0.00
styrene	0.81	0	200.00
PCE	19	19	0.00
toluen	4.2	4.1	2.41
TCE	55	56	-1.80

N/A

Calculation Checks for NYSDEC DUSR

Site:SDG C1512036

SDG =

CENTEK LAB

Initial Calibration Check

Line acquired on = 12/12/2015

Instrument ID = MSD #1

Compound Name = Ethylbenzene

Internal standard Name = Chlorobenzene-d5

Level	Concentration (ppbv)	Compound Area	Std Conc (ppbv)	Internal Std Area	RF
1	0.15	49620	1	150414	2.1992634
2	0.3	93808	1	154326	2.026187
3	0.5	148607	1	153607	1.9348988
4	0.75	216908	1	154650	1.8700981
5	1	290419	1	154084	1.8848096
6	1.25	355274	1	155096	1.8325373
7	1.5	442402	1	157698	1.8702499
8	2	581471	1	160203	1.8147944
				Avg =	1.9291048
				%RSD =	6.61%

Compound Name = TCE

Internal standard Name = 1,4-difluorobenzene

Level	Concentration (ppbv)	Compound Area	Std Conc (ppbv)	Internal Std Area	RF
1	0.04	5194	1	177660	0.7308905
2	0.1	8981	1	172807	0.5197127
3	0.15	13217	1	176445	0.4993813
4	0.3	24120	1	173231	0.4641202
5	0.5	38401	1	178474	0.430326
6	0.75	56873	1	175183	0.4328654
7	1	75019	1	175976	0.4263025
8	1.25	92150	1	176703	0.4171972
9	1.5	112783	1	177964	0.4224937
10	2	146021	1	179086	0.407684
				Avg =	0.4750973
				%RSD =	20.45%

CCV

Continuing Calibration Check

Compound Name = cis-1,2-DCE

Date =

Time =

Concentration (ppbv)	Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
1	23443	1	17085	1.3721393
				% D = -28.87%

CCV

Continuing Calibration Check

Compound Name = TCE

Date =

Time =

Concentration (ug/L)	Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
1	31391	1	79516	0.3947759
				% D = -16.91%

LCS

LCS= ALCS1UG-121315

Compound Name = TCE

Date = 12/13/2015

Time = 14:55

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
95678	1	214010	0.475097347
			Concentration = 0.94

Calculation Checks for NYSDEC DUSR

Site:SDG C1512036

Target= 1
%Recovery = 94.10%

LCS

LCS= ALCS1UG-121315

Compound Name = **TCE**

Date = 12/14/2015

Time = 4:45

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
85468	1	188883	0.475097347
Concentration =			0.95

Target= 1
%Recovery = 95.24%

Sample Calculation Check

Field Sample ID = 828076-IA-003B2-03

Lab Sample ID = C1512036-001A

Date = 12/13/2015

Time = 17:55

Compound Name = **TCE**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
4816	1	218013	0.475097347
Concentration =			0.05
Dilution Factor =			1
Final Concentration (ppbv) =			0.05

conversion factor = 5.33
Final Concentration (ug/m3) = 0.25

Field Sample ID = 828076-IA-003B2-03

Lab Sample ID = C1512036-001A

Date = 12/13/2015

Time = 17:55

Compound Name = **Ethylbenzene**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
61479	1	197336	1.92910479
Concentration =			0.16
Dilution Factor =			1
Final Concentration (ppbv) =			0.16

conversion factor = 4.35
Final Concentration (ug/m3) = 0.70

Field Sample ID = 828076-IA-003B10-04D

Lab Sample ID = C1512036-001A

Date = 12/13/2015

Time = 23:39

Compound Name = **TCE**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
10172	1	196801	0.475097347
Concentration =			0.11
Dilution Factor =			1
Final Concentration (ppbv) =			0.108791871

conversion factor = 5.33
Final Concentration (ug/m3) = 0.5798607

Field Sample ID = 828076-IA-003B10-04D

Lab Sample ID = C1512036-001A

Date = 12/13/2015

Time = 23:39

Compound Name = **Ethylbenzene**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
41917	1	174244	1.92910479
Concentration =			0.12
Dilution Factor =			1
Final Concentration (ppbv) =			0.124702896

conversion factor = 4.35
Final Concentration (ug/m3) = 0.5424576

VOCs in Air

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Scobell Chemical

Method : TO-15

Laboratory and SDG(s): Centek

SDG# C1512040

Date: 12/29/2015

Reviewer: Willie Stone

Review Level ☒ NYSDEC DUSR

USEPA Region II Guideline

Control limits are from EPA Region 2 - SOP# HW-31, October 2006.

1. ☒ **Case Narrative Review and Data Package Completeness** COMMENTS
Were problems noted?
Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)
2. ☒ **Holding time and Sample Collection**
All samples were analyzed within the 30 day holding time. YES NO (circle one)
3. ☒ **QC Blanks** (use 5x rule for calculating action levels)
Are method blanks free of contamination? YES NO (circle one)
Are Trip blanks free of contamination? YES NO NA (circle one)
4. ☒ **Instrument Tuning**
Were all results were within method criteria. YES NO (circle one)
5. ☒ **Instrument Calibration - Data Package Narrative review.**
Nothing mentioned in narrative
Did the laboratory narrative identify compounds that were outside of method criteria in the initial calibration and/or continuing calibration standards? YES NO
Nothing noted in narrative
Did the laboratory qualify results based on initial or continuing calibration exceedances? YES NO NA
Was 12-31-15
6. ☒ **Internal Standards** (Area Limits = +40% to -40%, RT's within 20 seconds of mid point cal Std)
Were all results within criteria? YES NO (circle one)
7. ☒ **Surrogate Recovery** *Nothing noted in Narr*
Were all results were within laboratory limits? YES NO (circle one)
8. ☒ **Field Duplicates/replicates**
Were Field Duplicates submitted/analyzed? YES NO (circle one)
Were all results were within criteria (Field Dup RPD goal = 50). YES NO NA (circle one)
9. ☒ **Laboratory Control Sample Results** (limits 70-130%)
Benzyl chloride low - See attached
Were all results were within limits? YES NO (circle one)
10. ☒ **Raw Data Review and Calculation Checks**
See attached
11. ☒ **Electronic Data Review and Edits**
Does the EDD match the Form I's? YES NO (circle one)
12. ☐ **TIC Review and DUSR Table 1** (sample Listing), **Table 2** (results summary), **Table 3** (Reason Codes), **Table 4** (TIC's). Did lab report TICs? YES NO (circle one)

Date: 28-Dec-15

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: AMEC Environment & Infrastructure, Inc.

Work Order: C1512040

Project: Scobell Chemical

TestCode: 0.15CT-TCE-VC

Sample ID	ALCS1UGD-121415	Sample Type	LCSD	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10479				
Client ID:	ZZZZZ	Batch ID:	R10479	TestNo: TO-15		Analysis Date: 12/14/2015	SeqNo: 123507				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9900	0.15	1	0	99.0	70	130	0.91	8.42	30	
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130	0.91	4.30	30	
1,1,2-Trichloroethane	1.010	0.15	1	0	101	70	130	0.92	9.33	30	
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130	0.95	8.06	30	
1,1-Dichloroethene	1.050	0.15	1	0	105	70	130	0.97	7.92	30	
1,2,4-Trichlorobenzene	0.9700	0.15	1	0	97.0	70	130	1.19	20.4	30	
1,2,4-Trimethylbenzene	0.9100	0.15	1	0	91.0	70	130	0.91	0	30	
1,2-Dibromoethane	0.9500	0.15	1	0	95.0	70	130	0.9	5.41	30	
1,2-Dichlorobenzene	0.9700	0.15	1	0	97.0	70	130	0.95	2.08	30	
1,2-Dichloroethane	1.080	0.15	1	0	108	70	130	1.01	6.70	30	
1,2-Dichloropropane	0.9800	0.15	1	0	98.0	70	130	0.91	7.41	30	
1,3,5-Trimethylbenzene	0.9600	0.15	1	0	96.0	70	130	0.94	2.11	30	
1,3-butadiene	0.9000	0.15	1	0	90.0	70	130	0.97	7.49	30	
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130	0.96	4.08	30	
1,4-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130	0.98	1.02	30	
1,4-Dioxane	0.7800	0.30	1	0	78.0	70	130	1.23	44.8	30	R
2,2,4-trimethylpentane	0.9300	0.15	1	0	93.0	70	130	0.87	6.67	30	
4-ethyltoluene	0.9200	0.15	1	0	92.0	70	130	0.91	1.09	30	
Acetone	0.9400	0.30	1	0	94.0	70	130	1.09	14.8	30	
Allyl chloride	0.9500	0.15	1	0	95.0	70	130	0.77	20.9	30	
Benzene	0.9900	0.15	1	0	99.0	70	130	0.92	7.33	30	
Benzyl chloride	0.6500	0.15	1	0	65.0	70	130	0.76	15.6	30	
Bromodichloromethane	0.9300	0.15	1	0	93.0	70	130	0.87	6.67	30	
Bromoform	0.7700	0.15	1	0	77.0	70	130	0.76	1.31	30	
Bromomethane	1.020	0.15	1	0	102	70	130	0.96	6.06	30	

5

5

Qualifiers: Results reported are not blank corrected
 f Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Calculation Checks for NYSDEC DUSR

Site:SDG C1512040

CENTEK LAB

SDG =

Initial Calibration Check

Line acquired on = 12/12/2015

Instrument ID = MSD #1

Compound Name = **Ethylbenzene**

Internal standard Name = Chlorobenzene-d5

Level	Concentration (ppbv)	Compound Area	Std Conc (ppbv)	Internal Std Area	RF
1	0.15	49620	1	150414	2.1992634
2	0.3	93808	1	154326	2.026187
3	0.5	148607	1	153607	1.9348988
4	0.75	216908	1	154650	1.8700981
5	1	290419	1	154084	1.8848096
6	1.25	355274	1	155096	1.8325373
7	1.5	442402	1	157698	1.8702499
8	2	581471	1	160203	1.8147944
Avg =					1.9291048
%RSD =					6.61%

Compound Name = **TCE**

Internal standard Name = 1,4-difluorobenzene

Level	Concentration (ppbv)	Compound Area	Std Conc (ppbv)	Internal Std Area	RF
1	0.04	5194	1	177660	0.7308905
2	0.1	8981	1	172807	0.5197127
3	0.15	13217	1	176445	0.4993813
4	0.3	24120	1	173231	0.4641202
5	0.5	38401	1	178474	0.430326
6	0.75	56873	1	175183	0.4328654
7	1	75019	1	175976	0.4263025
8	1.25	92150	1	176703	0.4171972
9	1.5	112783	1	177964	0.4224937
10	2	146021	1	179086	0.407684
Avg =					0.4750973
%RSD =					20.45%

Sample Calculation Check

Field Sample ID = 828076-IA-003B3-01

Lab Sample ID = C1512036-001A

Date = 12/15/2015

Time = 0:00

Compound Name = **TCE**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
3006	1	92326	0.475097347
Concentration =			0.07
Dilution Factor =			1
Final Concentration (ppbv) =			0.07

conversion factor = 5.33

Final Concentration (ug/m3) = 0.37

Field Sample ID = 828076-IA-003B3-01

Lab Sample ID = C1512036-001A

Date = 12/15/2015

Time = 0:00

Compound Name = **Ethylbenzene**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
20268	1	87348	1.92910479
Concentration =			0.12
Dilution Factor =			1
Final Concentration (ppbv) =			0.12

conversion factor = 4.35

Final Concentration (ug/m3) = 0.52

Field Sample ID = 828076-SS-003B3-01

Lab Sample ID = C1512036-001A

Date = 12/16/2015

Calculation Checks for NYSDEC DUSR

Site:SDG C1512040

Time = 6:53

Compound Name = **TCE**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
19427	1	166948	0.475097347
Concentration =			0.24
Dilution Factor =			1
Final Concentration (ppbv) =			0.244929961

conversion factor = 5.33

Final Concentration (ug/m3) = 1.3054767

Field Sample ID = 828076-SS-003B3-01

Lab Sample ID = C1512036-001A

Date = 12/16/2015

Time = 6:53

Compound Name = **Ethylbenzene**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
275907	1	155231	1.92910479
Concentration =			0.92
Dilution Factor =			1
Final Concentration (ppbv) =			0.921358071

conversion factor = 4.35

Final Concentration (ug/m3) = 4.0079076

VOCs in Air

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Scobell Chemical

Method: TO-15

Laboratory and SDG(s): Centek

SDG# C1512042

Date: 12/29/2015

Reviewer: Willie Stone

Review Level ☒ NYSDEC DUSR

USEPA Region II Guideline

Control limits are from EPA Region 2 - SOP# HW-31, October 2006.

1. ☒ **Case Narrative Review and Data Package Completeness** COMMENTS
Were problems noted? *Yes. One CC failure*
Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)
2. ☒ **Holding time and Sample Collection**
All samples were analyzed within the 30 day holding time. YES NO (circle one)
3. ☒ **QC Blanks** (use 5x rule for calculating action levels)
Are method blanks free of contamination? YES NO (circle one)
Are Trip blanks free of contamination? YES NO NA (circle one)
4. ☒ **Instrument Tuning**
Were all results were within method criteria. YES NO (circle one)
5. ☒ **Instrument Calibration - Data Package Narrative review.**
Did the laboratory narrative identify compounds that were outside of method criteria in the initial calibration and/or continuing calibration standards? YES NO
MKB high in an CC - not detected. No action taken.
Did the laboratory qualify results based on initial or continuing calibration exceedances? YES NO NA
6. ☒ **Internal Standards** (Area Limits = +40% to -40%, RT's within 20 seconds of mid point cal Std)
Were all results within criteria? YES NO (circle one)
NO issue noted
7. ☒ **Surrogate Recovery**
NO issues noted
Were all results were within laboratory limits? YES NO (circle one)
8. ☒ **Field Duplicates/replicates**
Were Field Duplicates submitted/analyzed? YES ~~NO~~
was 1-13-16
Were all results were within criteria (Field Dup RPD goal = 50). YES NO NA (circle one)
9. ☒ **Laboratory Control Sample Results** (limits 70-130%)
Benzaldehyde low see SOB C1512042 for LUS pay c
Were all results were within limits? YES NO (circle one)
10. ☒ **Raw Data Review and Calculation Checks**
see attached
11. ☒ **Electronic Data Review and Edits**
Does the EDD match the Form I's? YES NO (circle one)
12. ☐ **TIC Review and DUSR Table 1** (sample Listing), **Table 2** (results summary), **Table 3** (Reason Codes), **Table 4** (TIC's). Did lab report TICs? YES NO (circle one)

Sample ID	828076-IA-003B10-04		
Compund	Result	Dup	RPD
1,2,4-TMB	0.93	0.74	22.75
1,3,5-TMB	0.93	0.69	29.63
acetone	13	19	-37.50
benzene	0.8	0.73	9.15
carbon tet	0.44	0.44	0.00
chloroform	1.2	1.2	0.00
chloromethane	0.93	0.89	4.40
cyclohexane	1.4		200.00
ethyl acetate	0.79	0.76	3.87
ethyl benzene	0.56	0.52	7.41
freon 11	1.5	1.6	-6.45
freon 12	2.6	2.6	0.00
heptane	0.57	0.45	23.53
hexane	1.2	1.3	-8.00
isopropyl alc	6.4	4.6	32.73
m+p	1.9	1.6	17.14
methyl ethyl ketone	2.3	2.2	4.44
MECL2	0.76	0.87	-13.50
o-xylene	0.61	0.56	8.55
styrene	0.51	0.51	0.00
toluene	3	2.1	35.29
TCE	1.4	0.59	81.41

Sample ID	828076-SVP15005		
Compund	Result	Dup	RPD
1,2,4-TMB	0.59	0.64	-8.13
acetone	2	3.9	-64.41
benzene	1.3	1.3	0.00
bromodichloromethane	1.2	1.2	0.00
carbon disulfide	2	2	0.00
chloroform	27	23	16.00
cis-1,2-dichloroethene	6.5	6.4	1.55
cyclohexane	0.76	0.76	0.00
ethylbenzene	0.91	0.87	4.49
freon 11	1.1	1.1	0.00
freon 12	2.4	2.4	0.00
hexane	0.46	0.53	-14.14
m+p	1.5	1.5	0.00
methyl ethyl ketone	0.62	0.65	-4.72
o-xylene	0.65	0.65	0.00
PCE	81	72	11.76
toluene	120	98	20.18
trans-1,2-dichloroethene	0.91		200.00
TCE	130	110	16.67
IPA	0	7.9	-200.00

Sample ID	828076-SS-003B4-01R		
Compund	Result	Dup	RPD
1,2,4-TMB	1.8	1.8	0.00
1,3,5-TMB	1.3	1.3	0.00
4-ethyltoluene	0.54	0.54	0.00
acetone	19	14	30.30
benzene	0.8	0.77	3.82
carbon disulfide	0	0.44	-200.00 ok, <RL diff
chloroform	5.6	5.7	-1.77
cyclohexane	0	0.93	-200.00
ethyl acetate	0.54	0.65	-18.49
ethylbenzene	0.91	0.91	0.00
freon 11	1.4	1.5	-6.90
freon 12	2.6	2.6	0.00
Heptane	0	0.74	-200.00
IPA	4	7.4	-59.65
m+p	3.3	3	9.52
methyl ethyl ketone	1.5	1.1	30.77
o-xylene	1.1	1.1	0.00
styrene	0.81	0	200.00
PCE	19	19	0.00
toluen	4.2	4.1	2.41
TCE	55	56	-1.80

N/A

Calculation Checks for NYSDEC DUSR

Site:SDG C1512042

SDG =

CENTEK LAB

Initial Calibration Check

Line acquired on = 12/12/2015

Instrument ID = MSD #1

Compound Name = **Ethylbenzene**

Internal standard Name = Chlorobenzene-d5

Level	Concentration (ppbv)	Compound Area	Std Conc (ppbv)	Internal Std Area	RF
1	0.15	49620	1	150414	2.1992634
2	0.3	93808	1	154326	2.026187
3	0.5	148607	1	153607	1.9348988
4	0.75	216908	1	154650	1.8700981
5	1	290419	1	154084	1.8848096
6	1.25	355274	1	155096	1.8325373
7	1.5	442402	1	157698	1.8702499
8	2	581471	1	160203	1.8147944
				Avg =	1.9291048
				%RSD =	6.61%

Compound Name = **TCE**

Internal standard Name = 1,4-difluorobenzene

Level	Concentration (ppbv)	Compound Area	Std Conc (ppbv)	Internal Std Area	RF
1	0.04	5194	1	177660	0.7308905
2	0.1	8981	1	172807	0.5197127
3	0.15	13217	1	176445	0.4993813
4	0.3	24120	1	173231	0.4641202
5	0.5	38401	1	178474	0.430326
6	0.75	56873	1	175183	0.4328654
7	1	75019	1	175976	0.4263025
8	1.25	92150	1	176703	0.4171972
9	1.5	112783	1	177964	0.4224937
10	2	146021	1	179086	0.407684
				Avg =	0.4750973
				%RSD =	20.45%

Sample Calculation Check

Field Sample ID = 828076-IA-003B6-01

Lab Sample ID = C1512042-003A

Date = 12/15/2015

Time = 5:47

Compound Name = **TCE**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
9651	1	94420	0.475097347
Concentration =			0.22
Dilution Factor =			1
Final Concentration (ppbv) =			0.22

conversion factor = 5.33

Final Concentration (ug/m3) = 1.15

Field Sample ID = 828076-IA-003B6-01

Lab Sample ID = C1512042-003A

Date = 12/15/2015

Time = 5:47

Compound Name = **Ethylbenzene**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
25415	1	88569	1.92910479
Concentration =			0.15
Dilution Factor =			1
Final Concentration (ppbv) =			0.15

conversion factor = 4.35

Final Concentration (ug/m3) = 0.65

Field Sample ID = 828076-SS-003B4-01R

Lab Sample ID = C1512042-007A

Date = 12/16/2015

Calculation Checks for NYSDEC DUSR

Site:SDG C1512042

Time = 15:04

Compound Name = **TCE**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
684328	1	137282	0.475097347
Concentration =			10.49
Dilution Factor =			1
Final Concentration (ppbv) =			10.49223736

conversion factor = 5.33

Final Concentration (ug/m3) = 55.923625

Field Sample ID = 828076-SS-003B4-01R

Lab Sample ID = C1512042-007A

Date = 12/16/2015

Time = 15:04

Compound Name = **Ethylbenzene**

Compound Area	Internal Std Conc (ppbv)	Internal Std Area	RF
52281	1	128629	1.92910479
Concentration =			0.21
Dilution Factor =			1
Final Concentration (ppbv) =			0.210692547

conversion factor = 4.35

Final Concentration (ug/m3) = 0.9165126

**DATA USABILITY SUMMARY REPORT
DECEMBER 2015 GROUNDWATER SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK**

1.0 INTRODUCTION

Groundwater samples were collected at the Scobell Chemical site in December 2015 and submitted to ALS Laboratory located in Rochester, New York, for analysis. Samples were analyzed by the following method:

- Volatile organic compounds (VOCs) by USEPA Method 8260C

Results were reported in the following sample delivery group (SDG):

- R1510767

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010). Sample event information included in this DUSR is presented in the following tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results

Laboratory deliverables included:

- Category B deliverable as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the following evaluations. A table of project control limits is presented in Attachment A. DUSR review checklists and applicable laboratory QC summary forms are included in Attachment B to document DUSR checks and QC outliers associated with qualification actions.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Samples (LCS)
- Surrogate Spikes (if applicable)
- Field Duplicates
- Target Analyte Identification and Quantitation
- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

Data qualification actions are applied when necessary based on general procedures in USEPA validation guidelines (USEPA, 2014) and the judgment of the project chemist. The following laboratory or data review qualifiers are used in the final data presentation:

J = concentration is estimated

U = target analyte is not detected above the reported detection limit

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 POTENTIAL DATA LIMITATIONS

Based on the DUSR review the data meet the data quality objectives and no potential limitations were identified.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Additional observations and quality control exceedances not specifically addressed above (Section 2.0) are summarized below. Sample results are interpreted to be usable as reported by the laboratory.

Instrument Continuing Calibration

The laboratory narrative noted the continuing calibration %D for bromomethane was outside the control limit of 20. No laboratory qualifiers associated with calibration were reported with sample data and sample results were reported unqualified. Bromomethane is not a primary site contaminant and the calibration outlier is not interpreted to be a significant data limitation.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

U.S. Environmental Protection Agency (USEPA), 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Methods 8260B and 8260C"; USEPA Region II; HW-24; Revision 4; September 2014.

Data Validator: Julie Ricardi



January 21, 2016

Reviewed by: Chris Ricardi, NRCC-EAC

A handwritten signature in black ink that reads "Chris Ricardi". The signature is written in a cursive style with a large, looping initial "C".

January 26, 2016

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
 DATA USABILITY SUMMARY REPORT
 DECEMBER 2015 GROUNDWATER SAMPLING
 SCOBELL CHEMICAL SITE
 BRIGHTON, NEW YORK

SDG	Location	Field Sample ID	Sample Date	Media	Lab Sample ID	Parameter	
						Method	VOCs
R1510767	MW-30S	828076-MW30S015	12/10/15	GW	R1510767-009	FS	SW8260C
R1510767	MW-31S	828076-MW31S014	12/09/15	GW	R1510767-001	FS	Param_Count
R1510767	MW-32D	828076-MW32D024	12/09/15	GW	R1510767-002	FS	52
R1510767	MW-32S	828076-MW32S016	12/09/15	GW	R1510767-003	FS	52
R1510767	MW-33S	828076-MW33S014	12/09/15	GW	R1510767-004	FS	52
R1510767	MW-33S	828076-MW33S014D	12/09/15	GW	R1510767-005	FD	52
R1510767	MW-34S	828076-MW34S014	12/10/15	GW	R1510767-006	FS	52
R1510767	MW-35S	828076-MW35S014	12/10/15	GW	R1510767-008	FS	52
R1510767	MW-36S	828076-MW36S014	12/10/15	GW	R1510767-007	FS	52
R1510767	QC	TRIP BLANK	12/09/15	BW	R1510767-010	TB	52

GW = groundwater, BW = blank water

FS = field sample, FD = field duplicate, TB = trip blank

Param_Count = number refers to number of target analytes reported

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 GROUNDWATER SAMPLING
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Lab Sample Delivery Group				Units	
Location		Sample Date		Sample ID	
Sample ID		Qc Code			
Method Class	Parameter	Result	Qualifier	Result	Qualifier
VOC	1,1,1-Trichloroethane	1 U		1 U	
VOC	1,1,2,2-Tetrachloroethane	1 U		1 U	
VOC	1,1,2-Trichloro-1,2,2-Trifluoroethane	1 U		1 U	
VOC	1,1,2-Trichloroethane	1 U		1 U	
VOC	1,1-Dichloroethane	1 U		1 U	
VOC	1,1-Dichloroethene	1 U		1 U	
VOC	1,2,3-Trichlorobenzene	1 U		1 U	
VOC	1,2,4-Trichlorobenzene	1 U		1 U	
VOC	1,2-Dibromo-3-chloropropane	2 U		2 U	
VOC	1,2-Dibromoethane	1 U		1 U	
VOC	1,2-Dichlorobenzene	1 U		1 U	
VOC	1,2-Dichloroethane	1 U		1 U	
VOC	1,2-Dichloropropane	1 U		1 U	
VOC	1,3-Dichlorobenzene	1 U		1 U	
VOC	1,4-Dichlorobenzene	1 U		1 U	
VOC	1,4-Dioxane	40 U		40 U	
VOC	2-Butanone	5 U		5 U	
VOC	2-Hexanone	5 U		5 U	
VOC	4-Methyl-2-pentanone	5 U		5 U	
VOC	Acetic acid, methyl ester	2 U		2 U	
VOC	Acetone	5 U		5 U	
VOC	Benzene	1 U		1 U	
VOC	Bromochloromethane	1 U		1 U	
VOC	Bromodichloromethane	1 U		1 U	
VOC	Bromoform	1 U		1 U	
VOC	Bromomethane	1 U		1 U	
VOC	Carbon disulfide	1 U		1 U	
VOC	Carbon tetrachloride	1 U		1 U	
VOC	Chlorobenzene	1 U		1 U	
VOC	Chloroethane	1 U		1 U	
VOC	Chloroform	1 U		1 U	
VOC	Chloromethane	1 U		1 U	
				R1510767	R1510767
				MW-32D	MW-32S
				12/09/15	12/09/15
				828076-MW32D024	828076-MW32S016
				FS	FS
				Result	Result
				1 U	2 U
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TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 GROUNDWATER SAMPLING
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Method Class	Parameter	Units	Lab Sample Delivery Group		R1510767		R1510767		R1510767		R1510767	
			Location	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
			Sample ID	Qc Code								
VOC	Cis-1,2-Dichloroethene	UG/L			1 U		1 U		130		210	
VOC	Cis-1,3-Dichloropropene	UG/L			1 U		1 U		1 U		2 U	
VOC	Cyclohexane	UG/L			1 U		1 U		1 U		2 U	
VOC	Dibromochloromethane	UG/L			1 U		1 U		1 U		2 U	
VOC	Dichlorodifluoromethane	UG/L			1 U		1 U		1 U		2 U	
VOC	Ethylbenzene	UG/L			1 U		1 U		1 U		2 U	
VOC	Isopropylbenzene	UG/L			1 U		1 U		1 U		2 U	
VOC	Methyl cyclohexane	UG/L			1 U		1 U		1 U		2 U	
VOC	Methyl Tertbutyl Ether	UG/L			1 U		1 U		1 U		2 U	
VOC	Methylene chloride	UG/L			1 U		1 U		1 U		2 U	
VOC	Styrene	UG/L			1 U		1 U		1 U		2 U	
VOC	Tetrachloroethene	UG/L			1 U		1 U		1 U		2 U	
VOC	Toluene	UG/L			1 U		1 U		1 U		2 U	
VOC	trans-1,2-Dichloroethene	UG/L			1 U		1 U		5		11	
VOC	trans-1,3-Dichloropropene	UG/L			1 U		1 U		1 U		2 U	
VOC	Trichloroethene	UG/L			1 U		1 U		2.4		3.8	
VOC	Trichlorofluoromethane	UG/L			1 U		1 U		1 U		2 U	
VOC	Vinyl chloride	UG/L			1 U		1 U		19		32	
VOC	Xylene, o	UG/L			1 U		1 U		1 U		2 U	
VOC	Xylenes (m&p)	UG/L			2 U		2 U		2 U		4 U	

NOTES:

UG/L = microgram per liter

mg/l = milligram per liter

U = not detected at the reported quantitation limit

J = estimated value

FS = field sample, FD = field duplicate,

TB = trip blank

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 GROUNDWATER SAMPLING
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Method Class	Parameter	Units	Lab Sample Delivery Group		R1510767		R1510767		R1510767		R1510767		R1510767	
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOC	1,1,1-Trichloroethane	UG/L			828076-MW33S014		2 U							
VOC	1,1,2,2-Tetrachloroethane	UG/L			828076-MW33S014		2 U							
VOC	1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/L			828076-MW33S014		2 U							
VOC	1,1,2-Trichloroethane	UG/L			828076-MW33S014		2 U							
VOC	1,1-Dichloroethane	UG/L			828076-MW33S014		2 U							
VOC	1,1-Dichloroethene	UG/L			828076-MW33S014		2 U							
VOC	1,2,3-Trichlorobenzene	UG/L			828076-MW33S014		2 U							
VOC	1,2,4-Trichlorobenzene	UG/L			828076-MW33S014		2 U							
VOC	1,2-Dibromo-3-chloropropane	UG/L			828076-MW33S014		4 U							
VOC	1,2-Dibromoethane	UG/L			828076-MW33S014		2 U							
VOC	1,2-Dichlorobenzene	UG/L			828076-MW33S014		2 U							
VOC	1,2-Dichloroethane	UG/L			828076-MW33S014		2 U							
VOC	1,2-Dichloropropane	UG/L			828076-MW33S014		2 U							
VOC	1,3-Dichlorobenzene	UG/L			828076-MW33S014		2 U							
VOC	1,4-Dichlorobenzene	UG/L			828076-MW33S014		2 U							
VOC	1,4-Dioxane	UG/L			828076-MW33S014		80 U							
VOC	2-Butanone	UG/L			828076-MW33S014		10 U							
VOC	2-Hexanone	UG/L			828076-MW33S014		10 U							
VOC	4-Methyl-2-pentanone	UG/L			828076-MW33S014		10 U							
VOC	Acetic acid, methyl ester	UG/L			828076-MW33S014		4 U							
VOC	Acetone	UG/L			828076-MW33S014		10 U							
VOC	Benzene	UG/L			828076-MW33S014		2 U							
VOC	Bromochloromethane	UG/L			828076-MW33S014		2 U							
VOC	Bromodichloromethane	UG/L			828076-MW33S014		2 U							
VOC	Bromoform	UG/L			828076-MW33S014		2 U							
VOC	Bromomethane	UG/L			828076-MW33S014		2 U							
VOC	Carbon disulfide	UG/L			828076-MW33S014		2 U							
VOC	Carbon tetrachloride	UG/L			828076-MW33S014		2 U							
VOC	Chlorobenzene	UG/L			828076-MW33S014		2 U							
VOC	Chloroethane	UG/L			828076-MW33S014		2 U							
VOC	Chloroform	UG/L			828076-MW33S014		1 J							
VOC	Chloromethane	UG/L			828076-MW33S014		2 U							

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 GROUNDWATER SAMPLING
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Method Class	Parameter	Units	Lab Sample Delivery Group				R1510767				R1510767				R1510767				R1510767			
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOC	Cis-1,2-Dichloroethene	UG/L					240															
VOC	Cis-1,3-Dichloropropene	UG/L					2 U															
VOC	Cyclohexane	UG/L					2 U															
VOC	Dibromochloromethane	UG/L					2 U															
VOC	Dichlorodifluoromethane	UG/L					2 U															
VOC	Ethylbenzene	UG/L					2 U															
VOC	Isopropylbenzene	UG/L					2 U															
VOC	Methyl cyclohexane	UG/L					2 U															
VOC	Methyl Tertbutyl Ether	UG/L					2 U															
VOC	Methylene chloride	UG/L					2 U															
VOC	Styrene	UG/L					2 U															
VOC	Tetrachloroethene	UG/L					2 U															
VOC	Toluene	UG/L					2 U															
VOC	trans-1,2-Dichloroethene	UG/L					3.3															
VOC	trans-1,3-Dichloropropene	UG/L					2 U															
VOC	Trichloroethene	UG/L					47															
VOC	Trichlorofluoromethane	UG/L					2 U															
VOC	Vinyl chloride	UG/L					2.9															
VOC	Xylene, o	UG/L					2 U															
VOC	Xylenes (m&p)	UG/L					4 U															

NOTES:

UG/L = microgram per liter
mg/l = milligram per liter
U = not detected at the reported quantitation limit
J = estimated value
FS = field sample, FD = field duplicate,
TB = trip blank

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 GROUNDWATER SAMPLING
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Method Class		Parameter	Lab Sample Delivery Group		R1510767		R1510767	
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier
							Result	Qualifier
VOC		1,1,1-Trichloroethane					1 U	1 U
VOC		1,1,2,2-Tetrachloroethane					1 U	1 U
VOC		1,1,2-Trichloro-1,2,2-Trifluoroethane					1 U	1 U
VOC		1,1,2-Trichloroethane					1 U	1 U
VOC		1,1-Dichloroethane					1 U	1 U
VOC		1,1-Dichloroethene					1 U	1 U
VOC		1,2,3-Trichlorobenzene					1 U	1 U
VOC		1,2,4-Trichlorobenzene					1 U	1 U
VOC		1,2-Dibromo-3-chloropropane					2 U	2 U
VOC		1,2-Dibromoethane					1 U	1 U
VOC		1,2-Dichlorobenzene					1 U	1 U
VOC		1,2-Dichloroethane					1 U	1 U
VOC		1,2-Dichloropropane					1 U	1 U
VOC		1,3-Dichlorobenzene					1 U	1 U
VOC		1,4-Dichlorobenzene					1 U	1 U
VOC		1,4-Dioxane					40 U	40 U
VOC		2-Butanone					5 U	5 U
VOC		2-Hexanone					5 U	5 U
VOC		4-Methyl-2-pentanone					5 U	5 U
VOC		Acetic acid, methyl ester					2 U	2 U
VOC		Acetone					5 U	5 U
VOC		Benzene					1 U	1 U
VOC		Bromochloromethane					1 U	1 U
VOC		Bromodichloromethane					1 U	1 U
VOC		Bromoform					1 U	1 U
VOC		Bromomethane					1 U	1 U
VOC		Carbon disulfide					1 U	1 U
VOC		Carbon tetrachloride					1 U	1 U
VOC		Chlorobenzene					1 U	1 U
VOC		Chloroethane					1 U	1 U
VOC		Chloroform					1 U	1 U
VOC		Chloromethane					1 U	1 U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
DECEMBER 2015 GROUNDWATER SAMPLING
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

Method Class		Parameter	Lab Sample Delivery Group		R1510767		R1510767	
			Location	Sample Date	Sample ID	Qc Code	Result	Qualifier
VOC		Cis-1,2-Dichloroethene					1 U	1 U
VOC		Cis-1,3-Dichloropropene					1 U	1 U
VOC		Cyclohexane					1 U	1 U
VOC		Dibromochloromethane					1 U	1 U
VOC		Dichlorodifluoromethane					1 U	1 U
VOC		Ethylbenzene					1 U	1 U
VOC		Isopropylbenzene					1 U	1 U
VOC		Methyl cyclohexane					1 U	1 U
VOC		Methyl Tertbutyl Ether					1 U	1 U
VOC		Methylene chloride					1 U	1 U
VOC		Styrene					1 U	1 U
VOC		Tetrachloroethene					1 U	1 U
VOC		Toluene					1 U	1 U
VOC		trans-1,2-Dichloroethene					1 U	1 U
VOC		trans-1,3-Dichloropropene					1 U	1 U
VOC		Trichloroethene					1 U	1 U
VOC		Trichlorofluoromethane					1 U	1 U
VOC		Vinyl chloride					1 U	1 U
VOC		Xylene, o					1 U	1 U
VOC		Xylenes (m&p)					2 U	2 U

NOTES:

UG/L = microgram per liter
mg/l = milligram per liter
U = not detected at the reported quantitation limit
J = estimated value
FS = field sample, FD = field duplicate,
TB = trip blank

ATTACHMENT A
SUMMARY OF VALIDATION QC LIMITS FOR SURROGATES, SPIKES, AND DUPLICATES
BASED ON THE REGION 2 VALIDATION GUIDELINES

PARAMETER	QC TEST	ANALYTE	Soil	Soil	WATER	Water
			(%R)	(RPD)	(%R)	(RPD)
Volatiles	Surrogate	All Surrogate Compounds	70 - 130		80 - 120	
	LCS	All Target Compounds	70 - 130		70 - 130	
	MS/MSD	All Target Compounds	70 - 130	35	70 - 130	20
	Field Duplicate	All Target Compounds		100		50

Notes:
 LCS - Laboratory Control Sample
 MS/MSD - Matrix spike/ Matrix Spike Duplicate
 RPD = Relative percent difference
 %R = percent recovery
 QC Limits are based on USEPA Region II Data Validation Guidelines and Project QA/QC Objectives
 1. See additional duplicate criteria in USEPA Region II guideline.

ATTACHMENT B

VOCs

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Scobell Chemical

Method : SW-846 8260C

Laboratory and SDG(s): ALS Environmental SDG# R1510767

Date: 1/20/16

Reviewer: Julie Ricardi

Review Level ☒ NYSDEC DUSR

USEPA Region II Guideline

1. ☒ **Case Narrative Review and COC/Data Package Completeness** COMMENTS
Were problems noted? QC problems noted as summarized below and attached
Are Field Sample IDs and Locations assigned correctly? YES NO (circle one) No; sample 828076-MW30S015 was incorrectly logged into the lab and reported as 828076-MS30S015. The sample ID was corrected in the AmecFW database during the DUSR review
Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one) Yes
2. ☒ **Holding time and Sample Collection**
All samples were analyzed within the 14 day holding time. YES NO (circle one) Yes
3. ☒ **QC Blanks**
Are method blanks free of contamination? YES NO (circle one) No; 1,2,3-Trichlorobenzene (0.88 J ug/L) and 1,2,4-trichlorobenzene (0.51 J ug/L) reported; however, no detections of 1,2,3- or 1,2,4-trichlorobenzene in associated samples and results were reported unqualified
Are Trip blanks free of contamination? YES NO (circle one) Yes; ND
Are Rinse blanks free of contamination? YES NO NA (circle one) NA
4. ☒ **Instrument Tuning**
Were all results were within method criteria. YES NO (circle one) NA
No problems were noted in the narrative and no laboratory qualifiers were present; sample results were reported unqualified
5. ☒ **Instrument Calibration** Were all results within criteria? YES NO (circle one) NA
Initial Calibration %RSD = 20% (30% for 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, VC)
Initial Avg RRF and Continuing RRF should be ≥ 0.05 and 0.10 for Chloromethane, 1,1-Dichloroethane, Bromoform and 0.30 for Chlorobenzene and 1,1,2,2-Tetrachloroethane
No problems were noted in the narrative and no laboratory qualifiers were present; sample results were reported unqualified
Continuing Calibration %D = 20%
Continuing calibration %Ds were noted in the narrative for bromomethane (narrative attached); no laboratory qualifiers were present and sample results were ND and were reported unqualified
6. ☒ **Internal Standards** (Area Limits = -50% to +100%, RT's within 30 seconds of mid point cal Std)
Were all results within criteria? YES NO (circle one) NA
No problems were noted in the narrative and no laboratory qualifiers were present; sample results were reported unqualified
7. ☒ **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)
Were all results were within Region II limits? YES NO (circle one) Yes, all OK
8. ☒ **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)
Were MS/MSDs submitted/analyzed? YES NO NA
Were all results were within the Region II limits? YES NO NA (circle one) NA
9. ☒ **Duplicates/replicates** - Region II Limits (water RPD 50, soil RPD 100)
Were Field Duplicates submitted/analyzed? YES NO Yes

828076MW33S014 / 828076MW33S014D: All OK

Were all results within Region II Limits? YES NO NA (circle one) Yes

10. ☒ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)

Were all results within Region II control limits? YES NO (circle one) Yes; all OK

11. ☒ **Raw Data Review and Calculation Checks**

OK; see attached

12. ☒ **Electronic Data Review and Edits**

Does the EDD match the Form Is? YES NO (circle one) Yes

13. ☒ **Table Review**

Table 1 (Samples and Analytical Methods)

Table 2 (Analytical Results)

Table 3 (Qualification Actions)

Were all tables produced and reviewed? YES NO (circle one) Yes

Table 4 (TICs) Did lab report TICs? YES NO (circle one) No

ALS Environmental

Client: AMEC Foster Wheeler
Service Request No.: R1510767
Project: Scobell Chemical
Date Received: 12/11/2015
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS), Matrix Spikes, and Duplicates.

Sample Receipt

Water samples were received for analysis at ALS Environmental on 12/11/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

Water samples were analyzed for a site specific list of Volatiles by methods 5030C/8260C from SW-846.

All initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% Difference except Bromomethane on the 12/20/15 CCV. All positive detections of analytes for samples associated with this CCV should be considered as estimated.

All Tuning criteria were within QC limits.

All Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) recoveries were within limits.

Site specific QC was not requested on these samples.

All Internal Standard Areas were within limits.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination except for low level detections for 1,2,4-Trichlorobenzene and 1,2,3-Trichlorobenzene on the 12/20/15 blank.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

no lab
qual;
not primary
site
contaminant;
no action
taken -
not in use.

ju
1/21/16



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

32572

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name Scobell Chemical		Project Number 3617147325-05		ANALYSIS REQUESTED (Include Method Number and Container Preservative)									
Project Manager Chris Samples		Report CC		PRESERVATIVE		NUMBER OF CONTAINERS		METALS, TOTAL (List in comments below)		METALS, DISSOLVED (List in comments below)		PRESERVATIVE KEY	
Company/Address AMBC PN												0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO ₄ 8. Other	
Phone # 207-828-3571		Email chris.samples@amcfn.com		Sampler's Printed Name Jerry Rawcliffe									
Sampler's Signature <i>Jerry Rawcliffe</i>		FOR OFFICE USE ONLY LAB ID		DATE		SAMPLING TIME		MATRIX					
828076-MW315014				12/9/15		1250		GW					
828076-MW320024				12/9/15		1405							
828076-MW325016				12/9/15		1500							
828076-MW335014				12/9/15		1630							
828076-MW335014D				12/9/15		1630							
828076-MW345014				12/9/15		1225							
828076-MW365014				12/9/15		1350							
828076-MW355014				12/9/15		1500							
828076-MW335015				12/9/15		1545							
TRIP BLANK				12/14/15		1030		↓					

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY: Signature *Jerry Rawcliffe* Printed Name **Jerry Rawcliffe** Firm **ALS** Date/Time **12/11/15 1105**

RECEIVED BY: Signature *Patricia* Printed Name **Patricia** Firm **ALS** Date/Time **12/11/15 1105**

RELINQUISHED BY: Signature *Patricia* Printed Name **Patricia** Firm **ALS** Date/Time **12/11/15 1105**

RECEIVED BY: Signature *Patricia* Printed Name **Patricia** Firm **ALS** Date/Time **12/11/15 1105**

SPECIAL INSTRUCTIONS/COMMENTS
Metals

logged in and reported as
828076-MW305015; corrected in
TED during data review.
12/11/15

TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day		REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data		INVOICE INFORMATION PO # BILL TO: AMEC	
REQUESTED REPORT DATE		Edata Yes No		RECEIVED BY	
RELINQUISHED BY: Signature Printed Name Firm Date/Time		RELINQUISHED BY: Signature Printed Name Firm Date/Time		RECEIVED BY: Signature Printed Name Firm Date/Time	

AMEC Foster Wheeler Environment & Infrastructure
Scobell Chemical Site

R1510767 5

Page 7 of 340

Sample Calc

Data Path : I:\ACQUDATA\msvoa12\Data\122015\
 Data File : MM8922.D
 Acq On : 20 Dec 2015 7:28 pm
 Operator : K.Ruest
 Sample : R1510767-004|2.0
 Misc : AMEC 8043 T4
 ALS Vial : 19 Sample Multiplier: 1

MW335014

Inst : MSVOA-12

Quant Time: Dec 22 16:17:32 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815A.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Wed Nov 25 09:49:52 2015
 Response via : Initial Calibration

$$\text{Conc TCE} = \frac{159369}{1217655} \times \frac{50}{.2796} \times 2.0 = 46.8 \frac{\mu\text{g}}{\text{L}} \quad (\text{DF})$$

OK

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	738524	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1217655	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1123015	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	553097	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.590	113	338509	53.47	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	106.94%
48) surr1,1,2-dichloroetha...	6.096	65	380512	54.42	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	108.84%
65) SURR3,Toluene-d8	8.529	98	1519048	57.02	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	114.04%
70) SURR2,BFB	11.047	95	571362	56.81	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	113.62%
Target Compounds						
4) Vinyl Chloride	1.433	62	16656	1.44	ppb	93
13) 1,1-Dicethene	2.426	96	2449	0.40	ppb	88
15) Acetone	2.487	43	1128	0.72	ppb	79
26) trans-1,2-Dichloroethene	3.249	96	11129	1.67	ppb	73
34) cis-1,2-Dichloroethene	4.712	96	877406	119.16	ppb	95
40) Chloroform	5.328	83	5859	0.51	ppb	88
54) Trichloroethene	7.078	130	159369	23.41	ppb	95
72) Tetrachloroethene	9.181	164	947m	0.20	ppb	

12/22/15

(#) = qualifier out of range (m) = manual integration (+) = signals summed

$$\text{Conc Cis-1,2-DCE} = \frac{877406}{238524} \times \frac{50}{.4985} \times 2 = 238.3 \frac{\mu\text{g}}{\text{L}}$$

OK

12/22/16

Sample Calc
(FD)

Data Path : I:\ACQUDATA\msvoa12\Data\122015\
 Data File : MM8923.D
 Acq On : 20 Dec 2015 7:58 pm
 Operator : K.Ruest
 Sample : R1510767-005|2.0
 Misc : AMEC 8043 T4
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

MW 3350141

Quant Time: Dec 22 16:20:05 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815A.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Wed Nov 25 09:49:52 2015

Response via : Initial Calibration

$$\text{Conc TCE} = \frac{161435}{1225947} \times \frac{50}{1.2796} \times 2.0 = 47.1 \frac{\mu\text{g}}{\text{L}}$$

OK

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	741383	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1225947	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1122159	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	545743	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibromomethane	5.590	113	352218	55.26	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	110.52%
48) surr1,1,2-dichloroetha...	6.096	65	382002	54.26	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	108.52%
65) SURR3,Toluene-d8	8.529	98	1526482	56.91	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	113.82%
70) SURR2,BFB	11.047	95	564103	55.71	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	111.42%
Target Compounds						
4) Vinyl Chloride	1.433	62	16590	1.43	ppb	95
13) 1,1-Dichloroethene	2.433	96	3040	0.49	ppb	# 68
26) trans-1,2-Dichloroethene	3.249	96	12399	1.86	ppb	94
34) cis-1,2-Dichloroethene	4.713	96	902861	122.15	ppb	✓ 95
40) Chloroform	5.328	83	6133m	0.53	ppb	
54) Trichloroethene	7.078	130	161435	23.55	ppb	✓ 94

(#)= qualifier out of range (m) = manual integration (+) = signals summed

$$\text{Conc} = \frac{902861}{741383} \times \frac{50}{1.4985} \times 2.0 = 244.3 \frac{\mu\text{g}}{\text{L}}$$

Cis-1,2-DCE

OK

Jr
12/22/16

IRAL Calc

$$RRF_{TCE} = 0.27959 \quad S_{RSD} = \frac{0.022598}{0.27959} = 8.08\%$$

Initial Calibration - Detailed Report

27959

OK

Calibration ID:	RC1500127	Instrument ID:	R-MS-12
		Signal ID:	1

Analyte	Curve Fit	Weighting									
Tetrahydrofuran (THF)	Average RF		RSD = 6.9		Average RF = 0.09390						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
03 2.000 0.1024	04 5.000 0.09978	05 20.000 0.08783	06 50.000 0.08504	07 100.000 0.09461	08 150.000 0.08996	09 200.000 0.09771					
Toluene	Average RF		RSD = 10.5		Average RF = 1.140						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.311	02 1.000 1.147	03 2.000 1.202	04 5.000 1.225	05 20.000 1.229	06 50.000 1.161	07 100.000 1.036	08 150.000 0.9823	09 200.000 0.9641			
Toluene-d8	Average RF		RSD = 12.3		Average RF = 1.094						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
06 50.000 1.272	03 60.000 1.201	04 70.000 1.142	05 100.000 1.040	07 125.000 0.9945	08 150.000 0.9158						
Trichloroethene (TCE)	Average RF		RSD = 8.1 ✓		Average RF = 0.2796 ✓						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.3231	02 1.000 0.3027	03 2.000 0.2684	04 5.000 0.2854	05 20.000 0.2859 ✓	06 50.000 0.2765	07 100.000 0.2556	08 150.000 0.2541	09 200.000 0.2646			
Trichlorofluoromethane (CFC 11)	Average RF		RSD = 5.3		Average RF = 0.6103						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.5999	02 1.000 0.6241	03 2.000 0.6351	04 5.000 0.5983	05 20.000 0.6727	06 50.000 0.6272	07 100.000 0.5890	08 150.000 0.5727	09 200.000 0.5732			
Vinyl Acetate	Average RF		RSD = 13.7		Average RF = 0.08343						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.08232	03 2.000 0.09504	04 5.000 0.1044	05 20.000 0.07963	06 50.000 0.07988	07 100.000 0.07962	08 150.000 0.08008	09 200.000 0.06651				
Vinyl Chloride	Average RF		RSD = 6.9		Average RF = 0.7834						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.8677	02 1.000 0.8044	03 2.000 0.7629	04 5.000 0.7438	05 20.000 0.8615	06 50.000 0.8048	07 100.000 0.7399	08 150.000 0.7296	09 200.000 0.7358			
cis-1,2-Dichloroethene	Average RF		RSD = 10.0 ✓		Average RF = 0.4985 ✓						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.5914	02 1.000 0.5359	03 2.000 0.5321	04 5.000 0.5156	05 20.000 0.4947 ✓	06 50.000 0.4772	07 100.000 0.4456	08 150.000 0.4446	09 200.000 0.4495			
cis-1,3-Dichloropropene	Average RF		RSD = 6.3		Average RF = 0.4481						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.4777	02 1.000 0.4720	03 2.000 0.4602	04 5.000 0.4643	05 20.000 0.4728	06 50.000 0.4477	07 100.000 0.4221	08 150.000 0.4062	09 200.000 0.4099			
m,p-Xylenes	Average RF		RSD = 9.4		Average RF = 0.5171						
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 1.000 0.5958	02 2.000 0.5253	03 4.000 0.5526	04 10.000 0.5395	05 40.000 0.5471	06 100.000 0.5129	07 200.000 0.4694	08 300.000 0.4604	09 400.000 0.4511			

$$RRF_{cis-1,2-DCE} = 0.49851 \quad S_{RSD} = \frac{0.05003}{0.49851} = 10.03\% \quad OK$$

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\111815\
 Data File : MM8189.D
 Acq On : 18 Nov 2015 6:42 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Nov 19 10:51:14 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815.MCIS 712-DLC

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Thu Nov 19 09:32:04 2015

Response via : Initial Calibration

$$R2F = \frac{147787}{746894} \times \frac{50}{20} = 0.49467$$

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	746894	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1235612	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1138984	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	553172	50.00	ppb	0.00

System Monitoring Compounds

45) surr4, Dibrflmethane.	5.597	113	625642	102.90	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	205.80%#
48) surr1, 1,2-dichloroetha...	6.096	65	682863	100.35	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	200.70%#
65) SURR3, Toluene-d8	8.529	98	2568861	101.89	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	203.78%#
70) SURR2, BFB	11.047	95	952681	97.85	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	195.70%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.219	85	235839	22.29	ppb	97
3) Chloromethane	1.347	50	271342	21.60	ppb	97
4) Vinyl Chloride	1.433	62	257391	22.00	ppb	98
5) Bromomethane	1.689	94	108855	18.79	ppb	94
6) Chloroethane	1.768	64	133130	20.35	ppb	99
7) Freon 21	1.927	67	248468	19.71	ppb	97
8) Trichlorofluoromethane	1.975	101	200987	22.02	ppb	96
9) Diethyl Ether	2.231	59	119049	20.82	ppb	97
10) Freon 123a	2.237	67	156125	18.91	ppb	97
11) Freon 123	2.298	83	175618	18.37	ppb	93
12) Acrolein	2.341	56	23880	37.52	ppb	98
13) 1,1-Dichloroethene	2.433	96	128509	20.09	ppb	96
14) Freon 113	2.445	101	117743	20.71	ppb	91
15) Acetone	2.487	43	30654m	19.36	ppb	
16) 2-Propanol	2.646	45	110266	364.95	ppb	95
17) Iodomethane	2.573	142	145090	20.69	ppb	98
18) Carbon Disulfide	2.634	76	409570	19.63	ppb	99
19) Acetonitrile	2.756	40	21431	97.04	ppb	88
20) Allyl Chloride	2.798	76	73906	21.25	ppb	98
21) Methyl Acetate	2.829	43	65421	17.63	ppb	94
22) Methylene Chloride	2.926	84	141816	19.66	ppb	94
23) TBA	3.091	59	190356	388.20	ppb	100
24) Acrylonitrile	3.207	53	177703	97.88	ppb	98
25) Methyl-t-Butyl Ether	3.262	73	353828	20.36	ppb	99
26) trans-1,2-Dichloroethene	3.249	96	140413	20.99	ppb	89
28) 1,1-Dichloroethane	3.792	63	249997	20.89	ppb	93
29) Vinyl Acetate	3.902	86	23791	18.43	ppb	# 93
30) DIPE	3.944	45	456019	19.55	ppb	100
31) 2-Chloro-1,3-Butadiene	3.926	53	229273	19.10	ppb	97
32) ETBE	4.524	59	420713	19.19	ppb	97
33) 2,2-Dichloropropane	4.707	77	201674	21.07	ppb	96
34) cis-1,2-Dichloroethene	4.719	96	147787	19.84	ppb	93
35) 2-Butanone	4.780	43	38879	17.62	ppb	88
36) Propionitrile	4.865	54	63104	94.74	ppb	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\111815\
 Data File : MM8189.D
 Acq On : 18 Nov 2015 6:42 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Nov 19 10:51:14 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Thu Nov 19 09:32:04 2015

Response via : Initial Calibration

$$RRF_{TLC} = \frac{141316}{1235612} \times \frac{50}{20} = 0.28592$$

OK

Jr
1/22/16

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.139	130	75893	19.61	ppb	98
38) Methacrylonitrile	5.158	67	41997	18.49	ppb	87
39) Tetrahydrofuran	5.243	42	26241	18.02	ppb	95
40) Chloroform	5.328	83	228784	19.67	ppb	99
41) 1,1,1-Trichloroethane	5.603	97	188877	20.68	ppb	96
42) TAME	6.407	73	354005	19.01	ppb	97
44) Cyclohexane	5.676	41	128800	19.16	ppb	92
46) Carbontetrachloride	5.859	121	48489	20.34	ppb	99
47) 1,1-Dichloropropene	5.871	75	180256	20.60	ppb	98
49) Benzene	6.176	78	569231	20.93	ppb	97
50) 1,2-Dichloroethane	6.212	62	147678	21.18	ppb	98
51) Iso-Butyl Alcohol	6.200	43	87699	384.74	ppb	86
52) n-Heptane	6.645	43	156368	20.90	ppb	95
53) 1-Butanol	7.115	56	130164	913.20	ppb	98
54) Trichloroethene	7.084	130	141316	20.45	ppb	95
55) Methylcyclohexane	7.310	55	157368	19.18	ppb	92
56) 1,2-Dichloropropane	7.358	63	141654	21.02	ppb	97
57) Dibromomethane	7.486	93	64616	19.48	ppb	97
58) 1,4-Dioxane	7.560	88	19220m	383.50	ppb	
59) Methyl Methacrylate	7.578	69	76126	19.52	ppb	93
60) Bromodichloromethane	7.712	83	168733	20.42	ppb	98
61) 2-Nitropropane	7.986	41	47739	38.93	ppb	92
62) 2-Chloroethylvinyl Ether	8.108	63	68173	18.34	ppb	98
63) cis-1,3-Dichloropropene	8.242	75	233657	21.10	ppb	98
64) 4-Methyl-2-pentanone	8.444	43	97024	19.69	ppb	98
66) Toluene	8.602	91	607465	21.57	ppb	98
67) trans-1,3-Dichloropropene	8.864	75	184608	20.99	ppb	97
68) Ethyl Methacrylate	8.998	69	160688	20.63	ppb	99
69) 1,1,2-Trichloroethane	9.047	97	100108	21.02	ppb	99
72) Tetrachloroethene	9.181	164	99831	21.13	ppb	91
73) 2-Hexanone	9.328	43	63376	18.18	ppb	98
74) 1,3-Dichloropropane	9.212	76	179404	20.72	ppb	97
75) Dibromochloromethane	9.437	129	108632	20.16	ppb	97
76) N-Butyl Acetate	9.480	43	164957	19.91	ppb	98
77) 1,2-Dibromoethane	9.529	107	95116	20.61	ppb	98
78) Chlorobenzene	10.016	112	354056	21.02	ppb	98
79) 3-CBTF	10.029	180	166251	19.92	ppb	99
80) 4-CBTF	10.084	180	153182	19.70	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.102	131	119487	20.52	ppb	94
82) Ethylbenzene	10.132	106	201581	21.12	ppb	96
83) (m+p)Xylene	10.242	106	498501	42.32	ppb	96
84) o-Xylene	10.596	106	254290	21.08	ppb	94
85) Styrene	10.608	104	413167	21.02	ppb	98
87) Bromoform	10.760	173	61267	19.50	ppb	94
88) 2-CBTF	10.839	180	168048	20.04	ppb	94
89) Isopropylbenzene	10.925	105	620263	21.56	ppb	98
90) Cyclohexanone	10.986	55	157226	376.99	ppb	99
91) trans-1,4-Dichloro-2-B...	11.230	53	33092	18.32	ppb	93
92) 1,1,2,2-Tetrachloroethane	11.181	83	116208	19.99	ppb	92
93) Bromobenzene	11.175	156	139093	21.37	ppb	# 85
94) 1,2,3-Trichloropropane	11.211	110	30318	17.71	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\122015\
 Data File : MM8905.D
 Acq On : 20 Dec 2015 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Dec 20 11:07:19 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815A.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Wed Nov 25 09:49:52 2015
 Response via : Initial Calibration

SoD = .4985 - .4870
 Cis-1,2-Dce = .4985

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

= 2.3%

Compound	AvgRF	CCRF	%Dev Area	% Dev(min)
1 I Pentafluorobenzene	1.0000	1.0000	0.0	102 -0.01
2 P Dichlorodifluoromethane	0.7043	0.7666	-8.8	100 0.00
3 P Chloromethane	0.8409	0.8453	-0.5	102 0.00
4 P Vinyl Chloride	0.7834	0.7818	0.2	99 0.00
5 P Bromomethane	0.3826	0.2976	22.2#	82 0.00 (X)
6 P Chloroethane	0.4308	0.4335	-0.6	103 0.00
7 Freon 21	0.8341	0.8381	-0.5	101 0.00
8 P Trichlorofluoromethane	0.6103	0.6225	-2.0	101 0.00
9 Diethyl Ether	0.3829	0.3721	2.8	101 0.00
10 Freon 123a	0.5453	0.5228	4.1	100 0.00
11 Freon 123	0.6287	0.5961	5.2	100 0.00
12 Acrolein TV= 250	0.0426	0.0872	14.2	104.7# 226# 0.00
13 P 1,1-Dichloroethene	0.4182	0.4065	2.8	100 0.00
14 P Freon 113	0.3806	0.3851	-1.2	105 0.00
15 P Acetone	0.1066	0.0949	11.0	97 0.00
16 2-Propanol	0.0202	0.0194	4.0	108 0.00
17 Iodomethane	0.4751	0.4809	-1.2	92 0.00
18 P Carbon Disulfide	1.3968	1.3166	5.7	95 0.00
19 Acetonitrile	0.0148	0.0143	3.4	114 0.01
20 Allyl Chloride	0.2328	0.2295	1.4	101 0.00
21 P Methyl Acetate	0.2484	0.2283	8.1	103 0.00
22 P Methylene Chloride	0.4829	0.4560	5.6	102 0.00
23 TBA	0.0328	0.0296	9.8	98 0.00
24 Acrylonitrile	0.1207	0.1151	4.6	102 0.00
25 P Methyl-t-Butyl Ether	1.1634	1.0320	11.3	96 -0.01
26 P trans-1,2-Dichloroethene	0.4503	0.4465	0.8	102 0.00
27 Halothane	0.0000	0.0000	0.0	0# -4.13#
28 P 1,1-Dichloroethane	0.8010	0.8357	-4.3	107 0.00
29 Vinyl Acetate	0.0834	0.0727	12.8	93 0.00
30 DIPE	1.5615	0.0041	99.7#	0# -0.05
31 2-Chloro-1,3-Butadiene	0.8055	0.8410	-4.4	107 0.00
32 ETBE	1.4674	0.0003	100.0#	0# 0.00
33 2,2-Dichloropropane	0.6407	0.6582	-2.7	106 0.00
34 P cis-1,2-Dichloroethene	0.4985	0.4870	2.3	104 -0.01
35 P 2-Butanone	0.1460	0.1371	6.1	100 0.00
36 Propionitrile	0.0446	0.0420	5.8	104 -0.01
37 Bromochloromethane	0.2575	0.2398	6.9	97 -0.02
38 Methacrylonitrile	0.1413	0.1267	10.3	97 -0.02
39 Tetrahydrofuran	0.0939	0.0885	5.8	106 -0.01
40 P Chloroform	0.7785	0.7458	4.2	104 0.00
41 P 1,1,1-Trichloroethane	0.6115	0.5955	2.6	100 0.00
42 TAME	1.2466	0.0000	100.0#	0# -6.41#
43 I 1,4-Difluorobenzene	1.0000	1.0000	0.0	103 0.00
44 P Cyclohexane	0.2733	0.2759	-1.0	106 -0.01
45 s surr4,Dibromomethane	0.2600	0.2809	-8.0	100 0.00
46 P Carbontetrachloride	0.0957	0.0894	6.6	96 -0.01

OK

8-11/11/16

CCAL cell

Data Path : I:\ACQUDATA\msvoa12\Data\122015\
Data File : MM8905.D
Acq On : 20 Dec 2015 10:49 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Dec 20 11:07:19 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815A.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Wed Nov 25 09:49:52 2015
Response via : Initial Calibration

$S.D = \frac{2796 - 12658}{12796}$
TCE
= 4.94% OK

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

20
11/22/16

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	1,1-Dichloropropene	0.3528	0.3538	-0.3	103	-0.01
48 s	surrl,1,2-dichloroethane-d4	0.2871	0.3023	-5.3	99	-0.01
49 P	Benzene	1.1004	1.1081	-0.7	102	0.00
50 P	1,2-Dichloroethane	0.2821	0.2745	2.7	102	0.00
51	Iso-Butyl Alcohol	0.0092	0.0088	4.3	109	0.00
52	n-Heptane	0.3028	0.3540	-16.9	123	0.00
53	1-Butanol	0.0058	0.0000	100.0#	0#	7.13#
54 P	Trichloroethene	0.2796	0.2658	4.9	99	0.00
55 P	Methylcyclohexane	0.3371	0.3390	-0.6	108	0.00
56 P	1,2-Dichloropropane	0.2727	0.2787	-2.2	105	0.00
57	Dibromomethane	0.1343	0.1197	10.9	99	0.00
58	1,4-Dioxane	0.0020	0.0020	0.0	117	0.00
59	Methyl Methacrylate	0.1578	0.1390	11.9	94	0.00
60 P	Bromodichloromethane	0.3343	0.3129	6.4	97	0.00
61	2-Nitropropane	0.0492	0.0355	27.8#	81	0.00
62	2-Chloroethylvinyl Ether	0.1504	0.1250	16.9	91	0.00
63 P	cis-1,3-Dichloropropene	0.4481	0.4329	3.4	100	0.00
64 P	4-Methyl-2-pentanone	0.1994	0.1775	11.0	93	0.00
65 s	SURR3,Toluene-d8	1.0940	1.2554	-14.8	102	0.00
66 P	Toluene	1.1396	1.1489	-0.8	102	0.00
67 P	trans-1,3-Dichloropropene	0.3560	0.3428	3.7	96	0.00
68	Ethyl Methacrylate	0.3152	0.2892	8.2	94	0.00
69 P	1,1,2-Trichloroethane	0.1927	0.1820	5.6	97	0.00
70 s	SURR2,BFB	0.4130	0.4584	-11.0	100	0.00
71 I	d5-Chlorobenzene	1.0000	1.0000	0.0	101	0.00
72 P	Tetrachloroethene	0.2074	0.2133	-2.8	104	0.00
73 P	2-Hexanone	0.1531	0.1324	13.5	93	0.00
74	1,3-Dichloropropane	0.3801	0.3527	7.2	99	0.00
75 P	Dibromochloromethane	0.2365	0.2145	9.3	92	0.00
76	N-Butyl Acetate	0.3657	0.3329	9.0	94	0.00
77 P	1,2-Dibromoethane	0.2026	0.1842	9.1	95	0.00
78 P	Chlorobenzene	0.7396	0.7218	2.4	101	0.00
79	3-CBTF	0.3664	0.0000	100.0#	0#	10.03#
80	4-CBTF	0.3410	0.0000	100.0#	0#	10.09#
81	1,1,1,2-Tetrachloroethane	0.2556	0.2369	7.3	97	0.00
82 P	Ethylbenzene	0.4189	0.4164	0.6	102	0.00
83 P	(m+p)Xylene	0.5171	0.5123	0.9	101	0.00
84 P	o-Xylene	0.5296	0.5304	-0.2	100	0.00
85 P	Styrene	0.8627	0.8460	1.9	99	0.00
86 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	100	0.00
87 P	Bromoform	0.2840	0.2359	16.9	86	0.00
88	2-CBTF	0.7501	0.0000	100.0#	0#	10.84#
89 P	Isopropylbenzene	2.6001	2.6604	-2.3	101	0.00
90	Cyclohexanone	0.0377	0.0498	32.1#	139	0.00
91	trans-1,4-Dichloro-2-Butene	0.1645	0.1376	16.4	90	0.00

10.7

Data Path : I:\ACQUDATA\msvoa12\Data\122015\
 Data File : MM8905.D
 Acq On : 20 Dec 2015 10:49 am
 Operator : K.Ruest
 Sample : CCV *PQ1515089-02*
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

$$RRF = \frac{364954}{749353} \times \frac{50}{50} = 0.4870$$

Quant Time: Dec 20 11:07:19 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815A.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

Qlast Update : Wed Nov 25 09:49:52 2015

Response via : Initial Calibration

OK

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.731	168	749353	50.00	ppb	-0.01
43) 1,4-Difluorobenzene	6.767	114	1258129	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1166875	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	553163	50.00	ppb	0.00

System Monitoring Compounds

45) surr4, Dibrflmethane	5.590	113	353464	54.04	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	= 108.08%		
48) surr1, 1,2-dichloroetha...	6.090	65	380305	52.64	ppb	-0.01
Spiked Amount	50.000	Range 73 - 125	Recovery	= 105.28%		
65) SURR3, Toluene-d8	8.529	98	1579499	57.38	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	= 114.76%		
70) SURR2, BFB	11.047	95	576693	55.50	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	= 111.00%		

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.213	85	574422	54.42	ppb	97
3) Chloromethane	1.347	50	633406	50.26	ppb	99
4) Vinyl Chloride	1.433	62	585842	49.90	ppb	98
5) Bromomethane	1.689	94	222973	38.89	ppb	97
6) Chloroethane	1.768	64	324851	50.31	ppb	97
7) Freon 21	1.927	67	628036	50.24	ppb	99
8) Trichlorofluoromethane	1.975	101	466503	51.01	ppb	100
9) Diethyl Ether	2.231	59	278813	48.59	ppb	96
10) Freon 123a	2.237	67	391779	47.94	ppb	95
11) Freon 123	2.292	83	446708	47.41	ppb	98
12) Acrolein	2.335	56	130617	204.56	ppb	98
13) 1,1-Dicethene	2.433	96	304639	48.61	ppb	95
14) Freon 113	2.439	101	288586	50.60	ppb	98
15) Acetone	2.487	43	71106	44.51	ppb	92
16) 2-Propanol	2.658	45	290949	959.79	ppb	95
17) Iodomethane	2.573	142	360387	50.62	ppb	98
18) Carbon Disulfide	2.634	76	986579	47.13	ppb	99
19) Acetonitrile	2.774	40	53426m	241.13	ppb	
20) Allyl Chloride	2.792	76	171974	49.28	ppb	# 81
21) Methyl Acetate	2.829	43	171081	45.96	ppb	94
22) Methylene Chloride	2.926	84	341708	47.22	ppb	93
23) TBA	3.097	59	443436	901.35	ppb	100
24) Acrylonitrile	3.207	53	431130	238.43	ppb	98
25) Methyl-t-Butyl Ether	3.256	73	773342	44.36	ppb	98
26) trans-1,2-Dichloroethene	3.243	96	334577	49.57	ppb	89
28) 1,1-Dicethane	3.786	63	626269	52.17	ppb	100
29) Vinyl Acetate	3.902	86	54495	43.58	ppb	# 78
31) 2-Chloro-1,3-Butadiene	3.920	53	630180	52.20	ppb	91
33) 2,2-Dichloropropane	4.700	77	493260	51.37	ppb	95
34) cis-1,2-Dichloroethene	4.707	96	364954	48.85	ppb	99
35) 2-Butanone	4.774	43	102707	46.93	ppb	93
36) Propionitrile	4.859	54	157177	235.21	ppb	96
37) Bromochloromethane	5.133	130	179703	46.56	ppb	95
38) Methacrylonitrile	5.145	67	94958	44.84	ppb	100

Data Path : I:\ACQUDATA\msvoa12\Data\122015\
 Data File : MM8905.D
 Acq On : 20 Dec 2015 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Dec 20 11:07:19 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815A.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Wed Nov 25 09:49:52 2015
 Response via : Initial Calibration

$$RRF = \frac{334356}{1258129} \times \frac{50}{50} = 0.2658$$

OK

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Tetrahydrofuran	5.231	42	66298	47.11	ppb	87
40) Chloroform	5.328	83	558882	47.90	ppb	95
41) 1,1,1-Trichloroethane	5.597	97	446212	48.69	ppb	97
44) Cyclohexane	5.670	41	347133	50.48	ppb	97
46) Carbontetrachloride	5.853	121	112515	46.71	ppb	93
47) 1,1-Dichloropropene	5.865	75	445161	50.15	ppb	99
49) Benzene	6.170	78	1394122	50.35	ppb	98
50) 1,2-Dichloroethane	6.206	62	345368	48.65	ppb	98
51) Iso-Butyl Alcohol	6.206	43	221621	954.86	ppb	88
52) n-Heptane	6.639	43	445419	58.46	ppb	98
54) Trichloroethene	7.078	130	334356	47.52	ppb	96
55) Methylcyclohexane	7.310	55	426500	50.28	ppb	93
56) 1,2-Dichloropropane	7.352	63	350581	51.10	ppb	97
57) Dibromomethane	7.486	93	150557	44.57	ppb	88
58) 1,4-Dioxane	7.566	88	50632m	1006.34	ppb	
59) Methyl Methacrylate	7.572	69	174912	44.06	ppb	97
60) Bromodichloromethane	7.706	83	393711	46.80	ppb	99
61) 2-Nitropropane	7.980	41	89255	72.04	ppb	93
62) 2-Chloroethylvinyl Ether	8.102	63	157239	41.54	ppb	90
63) cis-1,3-Dichloropropene	8.236	75	544585	48.30	ppb	98
64) 4-Methyl-2-pentanone	8.438	43	223295	44.50	ppb	96
66) Toluene	8.602	91	1445403	50.40	ppb	99
67) trans-1,3-Dichloropropene	8.858	75	431286	48.15	ppb	98
68) Ethyl Methacrylate	8.998	69	363912	45.89	ppb	96
69) 1,1,2-Trichloroethane	9.047	97	228980	47.22	ppb	97
72) Tetrachloroethene	9.181	164	248889	51.42	ppb	95
73) 2-Hexanone	9.328	43	154492	43.25	ppb	98
74) 1,3-Dichloropropane	9.212	76	411567	46.39	ppb	99
75) Dibromochloromethane	9.431	129	250263	45.34	ppb	98
76) N-Butyl Acetate	9.480	43	388438	45.51	ppb	97
77) 1,2-Dibromoethane	9.529	107	214940	45.47	ppb	99
78) Chlorobenzene	10.010	112	842253	48.80	ppb	96
81) 1,1,1,2-Tetrachloroethane	10.096	131	276387	46.33	ppb	98
82) Ethylbenzene	10.132	106	485932	49.70	ppb	99
83) (m+p)Xylene	10.242	106	1195607	99.07	ppb	100
84) o-Xylene	10.596	106	618855	50.07	ppb	97
85) Styrene	10.608	104	987148	49.03	ppb	100
87) Bromoform	10.754	173	130499	41.53	ppb	97
89) Isopropylbenzene	10.925	105	1471619	51.16	ppb	99
90) Cyclohexanone	10.986	55	550460	1319.90	ppb	99
91) trans-1,4-Dichloro-2-B...	11.224	53	76139	44.65	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.181	83	268005	46.11	ppb	99
93) Bromobenzene	11.169	156	335362	51.52	ppb	94
94) 1,2,3-Trichloropropane	11.211	110	71596	46.30	ppb	95
95) n-Propylbenzene	11.278	91	1763406	53.19	ppb	99
96) 2-Chlorotoluene	11.339	91	997600	51.33	ppb	97
98) 4-Chlorotoluene	11.431	91	1155432	52.70	ppb	95
99) 1,3,5-Trimethylbenzene	11.425	105	1156931	53.15	ppb	96
100) tert-Butylbenzene	11.699	119	1011697	52.09	ppb	97
101) 1,2,4-Trimethylbenzene	11.736	105	1209416	51.78	ppb	100
103) sec-Butylbenzene	11.882	105	1457211	53.62	ppb	100

20
11/21/16

LCS calc

Data Path : I:\ACQUDATA\msvoa12\Data\122015\
 Data File : MM8906.D
 Acq On : 20 Dec 2015 11:19 am
 Operator : K.Ruest
 Sample : LCS *LD1515689-03*
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Dec 20 11:37:49 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815A.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Wed Nov 25 09:49:52 2015

Response via : Initial Calibration

$$\text{Conc} = \frac{143562}{755337} \times \frac{50}{1.4985} = 19.06 \frac{\mu\text{g}}{\text{L}}$$

OK

$$\Sigma_{\text{of}} = \frac{19.06}{20}$$

$$= 95.3$$

OK

gr
 11/22/16

KR
 12/20/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	755337	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1244612	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1160708	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	539656	50.00	ppb	0.00

System Monitoring Compounds

45) surr4, Dibrflmethane	5.590	113	362748	56.06	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	= 112.12%	
48) surr1, 1,2-dichloroetha...	6.096	65	384718	53.83	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	= 107.66%	
65) SURR3, Toluene-d8	8.529	98	1591375	58.44	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	= 116.88%	
70) SURR2, BFB	11.046	95	574883	55.92	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	= 111.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.213	85	190372	17.89	ppb	98
3) Chloromethane	1.347	50	238667	18.79	ppb	94
4) Vinyl Chloride	1.432	62	216950	18.33	ppb	100
5) Bromomethane	1.689	94	91007	15.75	ppb	87
6) Chloroethane	1.768	64	121753	18.71	ppb	96
7) Freon 21	1.926	67	279347	22.17	ppb	97
8) Trichlorofluoromethane	1.975	101	171166	18.57	ppb	97
9) Diethyl Ether	2.231	59	118004	20.40	ppb	94
10) Freon 123a	2.237	67	173036	21.01	ppb	95
11) Freon 123	2.292	83	178743	18.82	ppb	97
12) Acrolein	2.341	56	27179	42.23	ppb	89
13) 1,1-Dicethene	2.432	96	114919	18.19	ppb	89
14) Freon 113	2.438	101	101691	17.69	ppb	95
15) Acetone	2.493	43	26816	16.65	ppb	93
16) 2-Propanol	2.664	45	121694	398.27	ppb	97
17) Iodomethane	2.572	142	122327	17.05	ppb	97
18) Carbon Disulfide	2.633	76	462107	21.90	ppb	99
19) Acetonitrile	2.768	40	27404	122.70	ppb	91
20) Allyl Chloride	2.792	76	72027	20.48	ppb	# 87
21) Methyl Acetate	2.829	43	69024	18.40	ppb	97
22) Methylene Chloride	2.926	84	140646	19.28	ppb	89
23) TBA	3.097	59	197993	399.26	ppb	99
24) Acrylonitrile	3.207	53	189621	104.04	ppb	99
25) Methyl-t-Butyl Ether	3.261	73	342990	19.52	ppb	98
26) trans-1,2-Dichloroethene	3.243	96	127364	18.72	ppb	89
28) 1,1-Dicethane	3.792	63	243322	20.11	ppb	100
29) Vinyl Acetate	3.908	86	26064	20.68	ppb	# 62
31) 2-Chloro-1,3-Butadiene	3.926	53	254570	20.92	ppb	96
33) 2,2-Dichloropropane	4.706	77	177695	18.36	ppb	97
34) cis-1,2-Dichloroethene	4.712	96	143562	19.06	ppb	✓ 98
35) 2-Butanone	4.779	43	45351	20.56	ppb	95
36) Propionitrile	4.871	54	67654	100.44	ppb	93
37) Bromochloromethane	5.139	130	71873	18.48	ppb	96
38) Methacrylonitrile	5.157	67	43546	20.40	ppb	94

LCS Calc

QUANTIFICATION REPORT (NOT REVIEWED)

Data Path : I:\ACQUDATA\msvoa12\Data\122015\
 Data File : MM8906.D
 Acq On : 20 Dec 2015 11:19 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Dec 20 11:37:49 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W111815A.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Wed Nov 25 09:49:52 2015
 Response via : Initial Calibration

$$\text{Conc TCE} = \frac{121187}{1244612} \times \frac{50}{1.2796} = 17.412 \frac{\mu\text{g}}{\text{L}}$$

OK

$$\text{Surcc} = \frac{17.412}{20}$$

$$= 87.1$$

OK

gn
1122116

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Tetrahydrofuran	5.249	42	29940	21.11	ppb	94
40) Chloroform	5.328	83	218954	18.62	ppb	99
41) 1,1,1-Trichloroethane	5.590	97	165913	17.96	ppb	96
44) Cyclohexane	5.669	41	133421	19.61	ppb	93
46) Carbontetrachloride	5.852	121	41171	17.28	ppb	99
47) 1,1-Dichloropropene	5.871	75	175503	19.99	ppb	94
49) Benzene	6.169	78	549566	20.06	ppb	100
50) 1,2-Dichloroethane	6.206	62	147695	21.03	ppb	96
51) Iso-Butyl Alcohol	6.200	43	95097	414.18	ppb	93
52) n-Heptane	6.639	43	149319	19.81	ppb	96
54) Trichloroethene	7.078	130	121187	17.41	ppb	97
55) Methylcyclohexane	7.309	55	167673	19.98	ppb	90
56) 1,2-Dichloropropane	7.352	63	147360	21.71	ppb	97
57) Dibromomethane	7.486	93	63126	18.89	ppb	88
58) 1,4-Dioxane	7.565	88	21237m	426.68	ppb	
59) Methyl Methacrylate	7.572	69	76311	19.43	ppb	93
60) Bromodichloromethane	7.706	83	161189	19.37	ppb	96
61) 2-Nitropropane	7.986	41	37657	30.72	ppb	89
62) 2-Chloroethylvinyl Ether	8.102	63	72222	19.29	ppb	84
63) cis-1,3-Dichloropropene	8.236	75	216419	19.40	ppb	99
64) 4-Methyl-2-pentanone	8.437	43	100239	20.19	ppb	98
66) Toluene	8.602	91	552328	19.47	ppb	97
67) trans-1,3-Dichloropropene	8.864	75	182554	20.60	ppb	97
68) Ethyl Methacrylate	8.998	69	154127	19.65	ppb	100
69) 1,1,2-Trichloroethane	9.047	97	94637	19.73	ppb	98
72) Tetrachloroethene	9.175	164	90297	18.76	ppb	96
73) 2-Hexanone	9.327	43	66143	18.62	ppb	96
74) 1,3-Dichloropropane	9.211	76	180621	20.47	ppb	100
75) Dibromochloromethane	9.431	129	100444	18.29	ppb	99
76) N-Butyl Acetate	9.480	43	162344	19.12	ppb	95
77) 1,2-Dibromoethane	9.528	107	89015	18.93	ppb	99
78) Chlorobenzene	10.016	112	330983	19.28	ppb	99
81) 1,1,1,2-Tetrachloroethane	10.095	131	108908	18.35	ppb	91
82) Ethylbenzene	10.132	106	175476	18.04	ppb	# 90
83) (m+p)Xylene	10.242	106	438028	36.49	ppb	88
84) o-Xylene	10.595	106	224365	18.25	ppb	98
85) Styrene	10.608	104	380999	19.02	ppb	99
87) Bromoform	10.760	173	52261	17.05	ppb	91
89) Isopropylbenzene	10.925	105	529972	18.88	ppb	98
90) Cyclohexanone	10.986	55	211463	519.74	ppb	100
91) trans-1,4-Dichloro-2-B...	11.229	53	27769	16.58	ppb	95
92) 1,1,2,2-Tetrachloroethane	11.181	83	117090	20.65	ppb	96
93) Bromobenzene	11.168	156	133271	20.99	ppb	91
94) 1,2,3-Trichloropropane	11.211	110	30033	19.75	ppb	93
95) n-Propylbenzene	11.278	91	619209	19.14	ppb	94
96) 2-Chlorotoluene	11.339	91	372148	19.63	ppb	97
98) 4-Chlorotoluene	11.431	91	439738	20.56	ppb	94
99) 1,3,5-Trimethylbenzene	11.431	105	426654	20.09	ppb	96
100) tert-Butylbenzene	11.699	119	355973	18.79	ppb	99
101) 1,2,4-Trimethylbenzene	11.735	105	449599	19.73	ppb	94
103) sec-Butylbenzene	11.882	105	507482	19.14	ppb	99



Checked for
Completeness of
parameters requested.

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

Dr 11/19/16

January 12, 2016

Analytical Report for Service Request No: R1510767

Mr. Chuck Staples
AMEC Environmental & Infrastructure
511 Congress Street, Suite 200
Portland, ME 041101

Laboratory Results for: Scobell Chemical Site/3617147328.05

Dear Mr. Staples:

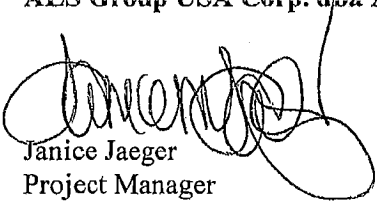
Enclosed are the results of the sample(s) submitted to our laboratory on December 11, 2015. For your reference, these analyses have been assigned our service request number **R1510767**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental


Janice Jaeger
Project Manager

CC: Julie Ricardi

Page 1 of 30