

Stone Environmental, Inc. Field Instrument Calibration Record

Project Name: Long Falls Paperboard Fuel oil SE Date: 12/22/20 Sampler (Sig/Date): SYR 12/22/20
 SEI Project Number: 19-015 Task: Soil assessment + well installation
 Project Location: Brattleboro, VT Checked By/Date: _____
 Weather Conditions (AM): low 30s, cloudy + foggy Weather Conditions (PM): 30s, partly cloudy

MULTI-PARAMETER WATER QUALITY METER							
Meter Type:	AM Calibration				Post Calibration Check		
Model NO.:	Start Time	/End Time			Start Time	/End Time	
Unit ID NO.:	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH {4}	SU	4.0	_____	±0.1 pH Units			
pH {7}	SU	7.0	_____	±0.1 pH Units	7.0	_____	±0.3 pH Units
pH {10}	SU	10.0	_____	±0.1 pH Units			
ORP	mV	_____	_____	±10 mV			±10 mV
Specific Conductance	µs/cm	_____	_____	±0.5% of Standard			±5% of Standard
Dissolved Oxygen	%	_____	_____	±2% of Standard			±0.5 mg/L of sat. val.
Temperature	°C	_____	_____				
Baro. Press.	mmHg	_____	_____				

TURBIDITY METER		Meter Type:	Model NO.:	Unit ID NO.:			
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
NTU	_____	_____	±0.3 NTU of stan. Of 1.0 NTU or less. ±5% of standards >5 NTU			±0.3 NTU of stan. Of 1.0 NTU or less. ±5% of standards >5 NTU	
NTU	_____	_____					
NTU	_____	_____					

PHOTONIZATION DETECTOR		Meter Type: <u>Ion Science</u>	Model NO.: <u>Tiger</u>	Unit ID NO.:			
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Background	ppmv	0.0	within 5 ppmv of BG	0.0	0.0	within 5 ppmv of BG	
Span Gas	ppmv	100	±10% of standard	100	117.5	±10% of standard	

O ₂ -LEL 4 GAS METER		Meter Type:	Model NO.:	Unit ID NO.:			
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Methane	%	50	±10% of standard	50	_____	±10% of standard	
O ₂	%	20.9	±10% of standard	20.9	_____	±10% of standard	
H ₂ S	ppmv	25	±10% of standard	25	_____	±10% of standard	
CO	ppmv	50	±10% of standard	50	_____	±10% of standard	

- Equipment calibrated within the Acceptance Criteria specified for each parameter listed above.
 Equipment not calibrated within the Acceptance Criteria specified for each parameter listed above**.

MATERIALS RECORD	Calibration Standard Lot #	Exp. Date
Deionized/Distilled Water Source: _____	pH {4}	_____
Trip Blank Source: _____	pH {7}	_____
Sample Preservative Source: _____	pH {10}	_____
Disposable Filter Type: _____	ORP	_____
DO Calibration Fluids Source: _____	Spec. Conductivity	_____
Other: _____	Turb. Stan. _____	_____
	Turb. Stan. _____	_____
	Turb. Stan. _____	_____
	PID Scan Gas	_____
	O ₂ LEL	_____
	Other	_____

NOTES: Calibrated PID twice at beginning of day, first reading = 117.5, second reading = 101.3. Inaccurate due to fog?



* - Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations. **= If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

Stone Environmental, Inc. Field Instrument Calibration Record

Project Name: Long Falls Paperboard Fuel Oil SE Date: 12/23/20 Sampler (Sig/Date): SYR 12/23/20
 SEI Project Number: 19-015 Task: Soil assessment
 Project Location: Brattleboro, VT Checked By/Date: _____
 Weather Conditions (AM): 20s, sunny + clear Weather Conditions (PM): 20s, cloudy

MULTI-PARAMETER WATER QUALITY METER					Post Calibration Check		
Meter Type:	AM Calibration				Start Time	/End Time	
Model NO.:	Start Time	/End Time		Standard Value	Meter Value	*Acceptance Criteria (AM)	
Unit ID NO.:	Units	Standard Value	Meter Value	Standard Value	Meter Value	*Acceptance Criteria (PM)	
pH (4)	SU	4.0	_____	_____	_____	±0.1 pH Units	
pH (7)	SU	7.0	_____	_____	7.0	_____	±0.1 pH Units
pH (10)	SU	10.0	_____	_____	_____	_____	±0.1 pH Units
ORP	mV	_____	_____	_____	_____	_____	±10 mV
Specific Conductance	µs/cm	_____	_____	_____	_____	_____	±0.5% of Standard
Dissolved Oxygen	%	_____	_____	_____	_____	_____	±5% of Standard
Temperature	°C	_____	_____	_____	_____	_____	±0.5 mg/L of sat. val.
Baro. Press.	mmHg	_____	_____	_____	_____	_____	_____

TURBIDITY METER					Post Calibration Check		
Meter Type:	AM Calibration				Start Time	/End Time	
Model NO.:	Start Time	/End Time		Standard Value	Meter Value	*Acceptance Criteria (AM)	
Unit ID NO.:	Units	Standard Value	Meter Value	Standard Value	Meter Value	*Acceptance Criteria (PM)	
	NTU	_____	_____	_____	_____	±0.3 NTU of stan. Of	
	NTU	_____	_____	_____	_____	1.0 NTU or less. ±5%	
	NTU	_____	_____	_____	_____	of standards >5 NTU	

PHOTIONIZATION DETECTOR					Post Calibration Check		
Meter Type:	AM Calibration				Start Time	/End Time	
Model NO.:	Start Time	/End Time		Standard Value	Meter Value	*Acceptance Criteria (AM)	
Unit ID NO.:	Units	Standard Value	Meter Value	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Background	ppmv	0.0	<u>0.0</u>	0.0	<u>0.0</u>	within 5 ppmv of BG	
Span Gas	ppmv	100	<u>98.3</u>	100	<u>98.0</u>	±10% of standard	

O ₂ -LEL 4 GAS METER					Post Calibration Check		
Meter Type:	AM Calibration				Start Time	/End Time	
Model NO.:	Start Time	/End Time		Standard Value	Meter Value	*Acceptance Criteria (AM)	
Unit ID NO.:	Units	Standard Value	Meter Value	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Methane	%	50	_____	50	_____	±10% of standard	
O ₂	%	20.9	_____	20.9	_____	±10% of standard	
H ₂ S	ppmv	25	_____	25	_____	±10% of standard	
CO	ppmv	50	_____	50	_____	±10% of standard	

Equipment calibrated within the Acceptance Criteria specified for each parameter listed above.
 Equipment not calibrated within the Acceptance Criteria specified for each parameter listed above**.

MATERIALS RECORD		Calibration Standard Lot #	Exp. Date
Deionized/Distilled Water Source:	_____	pH (4)	_____
Trip Blank Source:	_____	pH (7)	_____
Sample Preservative Source:	_____	pH (10)	_____
Disposable Filter Type:	_____	ORP	_____
DO Calibration Fluids Source:	_____	Spec. Conductivity	_____
Other:	_____	Turb. Stan.	_____
		Turb. Stan.	_____
		Turb. Stan.	_____
		PID Scan Gas	_____
		O ₂ Ill	_____
		Other	_____

NOTES:
 PID check at end of day outside of acceptance criteria



* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations. ** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

OBSERVATIONS AND REMARKS

Project Name/Description:

Long Falls Paper



STONE ENVIRONMENTAL

535 Stone Cutters Way / Montpelier / VT / 05602 / USA
802.229.4541 / info@stone-env.com / www.stone-env.com

SEI Project #:

19-015

Client/Sponsor:

LFP

0440 DTC calibrates YSIs before heading to site / loads samples + equipment
630-720 travel to Brattleboro.
720 DTC on-site @ LFP. weather: 29°F, cloudy. Obj. continue GW sampling.

740 S.R. on-site. Begin set up / tutorial on bladder pumps. Cannot get S.R.'s pump started. continue troubleshooting.

855 start IP-015. End @ 1010.
start filling bottles (VOCs, SVOCs, EPH) @ 1015
~1000 contest on-site for sample pick up

1125 DTC sets up S.R. on IP-28. will try to get other bladder pump working.
Take pump apart, thoroughly clean insect connections, change bladder
Test pump in clean water → works OK.

Reset IP-035 w/ new tubing, start @ 1150. 1205 ~300 mL from sample line, then no flow again. No flow after another 5 min. pulled gear, confirmed there is water in bottom part of line but not being significantly drawn up. DTW = 68.04'.
Reset line / pump and changed power supply.

called geotech. They recommended setting discharge / fill time to 30-45s / 30s. This is causing PSI on controller to reach 90+. still no flow after 20 min. pulled system → again there is water ~15' above pump that isn't being raised. lowered and changed controller (5358)

1330 pulled again. water at ~25' not being raised.
cleaned ball valve, checked connections, bladder looks OK. 1335 restarted
1400 still no flow. cannot diagnose figure out issue. turning off to monitor S.R.'s well while production well samples are collected.
1410 S.R.'s well (IP-27?) ready to sample. begin filling bottles
1415-1435 IP-27 (VOCs, EPH, SVOCs) @ 14:20

pull & clean the pump. Replace w/ IP-035. Begin 1447. flow at 1452.

Signed:

Daniel J. [Signature]

Date:

1/6/21

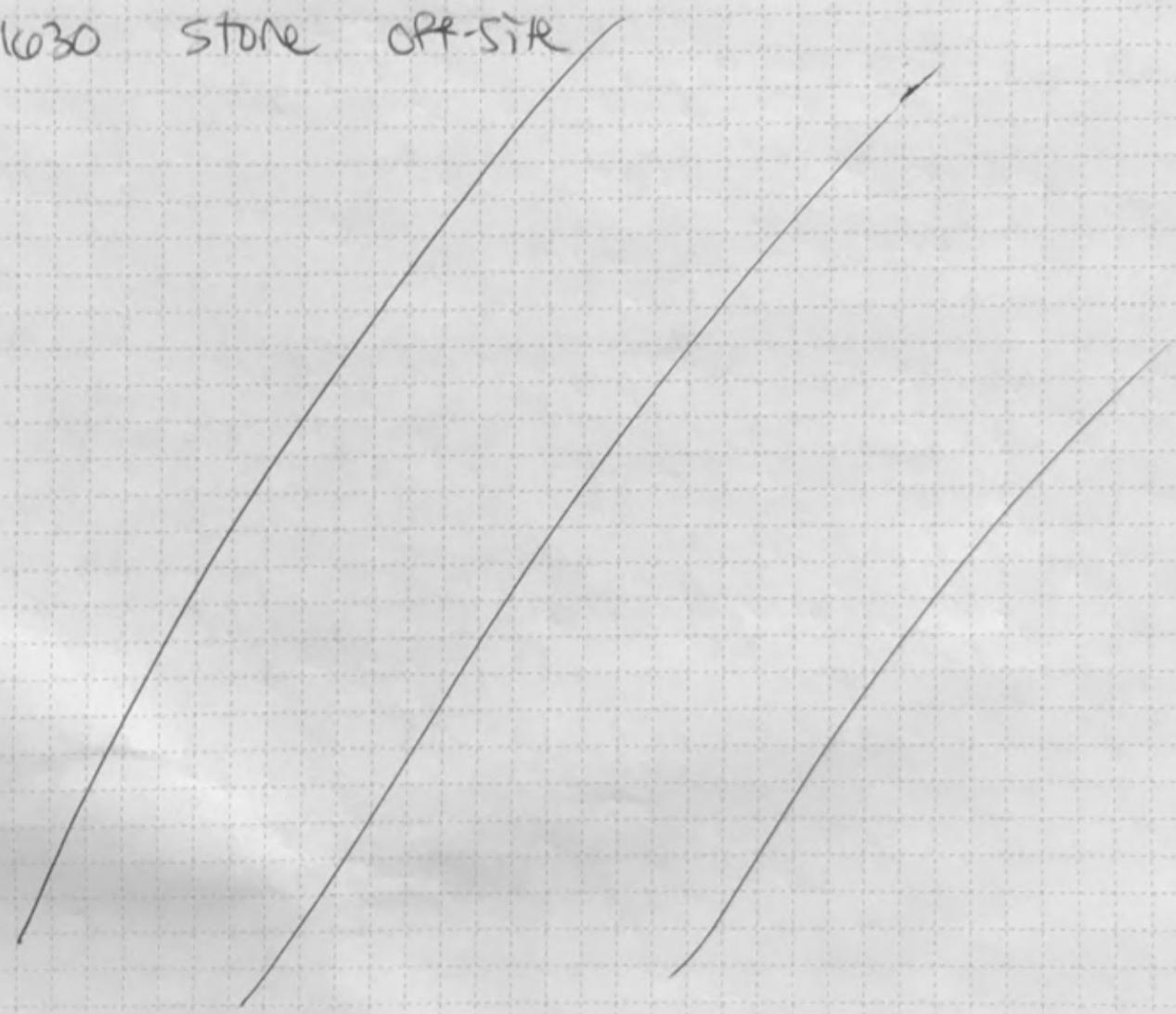
Page:

1 of 2

OBSERVATIONS AND REMARKS

Project Name/Description: LFP	 STONE ENVIRONMENTAL 535 Stone Cutters Way / Montpelier / VT / 05602 / USA 802.229.4541 / info@stone-env.com / www.stone-env.com
SEI Project #: 19-015	Client/Sponsor: LFP

Well stable @ 1540. 1542 begin filling bottles. End 1605
1600 collected JP-035 (VOCs, SVOCs, EPH + 6 8oz
glass jar [for separate lab / analyses])
EOD ✓ on equipment. Pack up. All Purge water in
1x 55 gallon drum in designated storage area.
1630 Stone OFF-SITE



Signed: Daniel J. Cud Date: 1/6/21
Page: 1 of 2

OBSERVATIONS AND REMARKS

Project Name/Description: Long Falls Paper	 STONE ENVIRONMENTAL 535 Stone Cutters Way / Montpelier / VT / 05602 / USA 802.229.4541 / info@stone-env.com / www.stone-env.com
SEI Project #: 19-015	Client/Sponsor: LFP

0850 Stone on-site @ LFP. Weather: 30°F, cloudy.
 Obj.: Sample MWS, set pressure transducers.

Checked in w/ LJR. No bottleware was ordered for process water samples. LJR to contact Contese.

Set PT in river. Begin calibration: set up on IP-3D.

1140 IP-3D stabilized after 1:20. Begin filling bottles (3x 1L, 2x 1L, 2x 1L HCl each) for IP-03D: IP-03D-FD.

Pull tubing, clean pump w/ alconox rinse - clean water rinse. Change bladder, set up on IP-03S.

1255 begin Purging.

1320 pump would not release pressure. unscrewed case to check pressure valves. Before case was opened there was a loud "Pop" noise, and pump will no longer turn on / cycle. went through all trouble shooting guides in manually. Appears the electric timer module failed. called LJR to discuss.

Attempted to deploy transducer [13016] in IP-03D. Could not connect. Found one of the pins on the cable is broken.

1500 launched unit 13012 in IP-03D, positioned ~ at mid point of screen.

Gauged production well that could be opened. DTW = 71.34'. Did not hit a solid ~~inappropriate~~ blockage (ie pump head or bottom) and WLM tape was curling at bottom. Appeared total depth is 131.0 ft bwc based on where WLM losses stiffness / slack in line.

1624 off-site. See LJR notes for IP-01 info.

1830-1900 Perform Post-eat EOD check on equipment off-site.

Signed: Daniel S. CW

Date: 1/5/21

MONITORING WELL SAMPLING FORM

Project Name: LFP Comments: flow is coming in high air driven spurts adding a lot of air/turbulence into flow thru cell.
 SEI Project Number: 19-015
 Client: LFP
 Project Manager: LJR

WELL ID: IP-015 Equipment ID / SN: _____
 Sample Date: 1/6/12 Pump: 4166
 SOP/SSP #'s Followed: SEI SOP 5.49.1 Water Level Indicator: 974
 Sampling Method: Bladder Pump Peri Pump Impeller Pump
 Sampling Personnel: DTC Water Quality Sonde: 6789
 Weather: ~30°F, cloudy Turbidity Meter: 6068
 Other: _____

Calculate Purge Volumes

Time of water level measurement (military): 850 Depth of Pump/Intake: 32 Measuring Point Description: TC Well Screen Length: 10'
 Total Well Depth (btoc): 7500 feet Depth to Water (btoc): 6918 feet Height of Water Column: 582 feet
 One Well Volume: 3.6 liters
 X 0.155 liters/feet (1-inch well)
 X 0.347 liters/feet (1.5-inch well)
 X 0.617 liters/feet (2-inch well)
 Time purging began (military): 855 3 X One Well Volume: 10.8 liters
 Time purging ended (military): 1010 5 X One Well Volume: 18.0 liters

Water Level (ft btoc)	Cumulative Vol. Purged (mL)	Time (Military)	Flow Rate (mL/min)	Temp (°C) (± 3%)	ORP (mV) (± 10 mV)	pH (su) (± 0.1 su)	DO (mg/L) (± 10% or 3 consecutive readings < 0.5 mg/L)	Conductivity (µS) (± 3%)	Turbidity (NTU) (± 10% or 3 consecutive readings < 5 NTU)
69.19	500	905	100	9.9	162.8	7.89	12.34	1158	250
NC	1500	910	200	10.9	154.3	7.77	12.35	903	117
69.14	2100	915	200 120	11.0	151.8	7.78	12.33	954	73
NC	3000	920	180	10.9	147.7	7.79	12.01	1002	40
NC	3800	925	160	10.9	144.5	7.65	11.81	1121	NC
69.18	5000	935	120	10.9	130.1	7.41	11.91	1039	21 22
69.18	6500	945	150	11.1	123.9	7.32	11.87	1024	21
NC	7200	950	140	11.2	119.5	7.17	12.00	1083	10
NC	8000	955	160	11.2	119.9	7.18	12.04	1064	10
69.19	8700	1000	140	11.3	116.4	7.08	11.95	1053	9
69.19	9500	1005	140	11.3	110.8	7.10	11.98	1032	9

Total Vol. Removed: 10 Liters (v) Meters Calibrated (v) Min. 3 Well Vol. Purged (v) Parameters Stable for 3 consecutive measurements

Sample Identification	Time Collected (Military)	Container	Sampled By (Initials)	Preservation	Analysis	Additional Comments
<u>IP-015</u>	<u>1015</u>	<u>See Com.</u>	<u>DTC</u>	<u>See Com.</u>	<u>See Com.</u>	<u>3x 10A w/ HCl (WGS)</u> <u>2x 1L amber (SWCS)</u> <u>2x 1L amber w/ HCl (EPH)</u>

Sampling Personnel Signature: Demir D. [Signature] Date: 1/6/12

(DE) DTC 1/6/12



MONITORING WELL SAMPLING FORM

Project Name: LFP
 SEI Project Number: 19-015
 Client: LFP
 Project Manager: LJR

Comments: took 8 minutes to get water to surface. started readings @ 1035. started filling sample bottles @ 1142. End @ 1240

WELL ID: IP-03D
 Equipment ID / SN: 6726

Sample Date: 1/5/21
 Pump: 6726

SOP/SSP #'s Followed: SEI SOP 5.49.1
 Water Level Indicator: 974

Sampling Method: Bladder Pump Peri Pump Impeller Pump
 Bailer Other
 Water Quality Sonde: 6819

Sampling Personnel: DTC
 Turbidity Meter: 6134

Weather: 30°F, Cloudy
 Other:

Calculate Purge Volumes

Time of water level measurement (military): 1015
 Depth of Pump/Intake: 105.0 feet
 Measuring Point Description: TOC
 Well Screen Length: 10'

Total Well Depth (btoc): 110.00 feet
 Depth to Water (btoc): 67.35 feet
 Height of Water Column: 42.65 feet
 One Well Volume: 26.3 liters

Time purging began (military): 1020
 3 X One Well Volume: 78.9 liters

Time purging ended (military): 1140
 5 X One Well Volume: 131.5 liters

Water Level (ft btoc)	Cumulative Vol. Purged (mL)	Time (Military)	Flow Rate (mL/min)	Temp (°C) (± 3%)	ORP (mV) (± 10 mV)	pH (su) (± 0.1 su)	DO (mg/L) (± 10% or 3 consecutive readings < 0.5 mg/L)	Conductivity (µS) (± 3%)	Turbidity (NTU) (± 10% or 3 consecutive readings < 5 NTU)
67.30	300	1035	/	13.2	-82.8	7.00	8.19	971	NC
67.30	800	1040	100	13.6	-179.7	6.57	7.57	1006	794
67.30	1400	1045	160	13.9	-205.3	6.48	7.03	949	333
67.30	2200	1050	160	13.6	-218.0	6.44	5.90	941	168
67.30	3000	1055	160	13.6	-211.3	6.43	5.04	888	103
67.29	3600	1100	120	13.3	-225.6	6.42	4.35	937	58
67.29	4300	1105	140	13.4	-247.3	6.42	3.78	1001	36
67.29	5000	1110	140	13.6	-278.9	6.43	2.10	1035	36
67.29	5900	1115	180	13.4	-294.4	6.43	1.45	1042	36
67.29	6700	1120	160	13.3	-310.6	6.43	1.25	1046	27
67.29	7500	1125	160	13.2	-325.1	6.43	1.11	1050	26
67.29	8200	1130	140	13.2	-337.7	6.44	1.13	1050	20
67.30	9000	1135	160	13.3	-345.3	6.44	1.12	1050	19
67.30	9800	1140	160	13.3	-347.6	6.44	1.11	1053	19

Total Vol. Removed: 10.5 Liters (v) Meters Calibrated (v) Min. 3 Well Vol. Purged (v) Parameters Stable for 3 consecutive measurements

Sample Identification	Time Collected (Military)	Container	Sampled By (Initials)	Preservation	Analysis	Additional Comments
IP-03D	1150	See COC	DTC	HCl	See COC	VOCS, SVOCs, EPH
IP-03D-FD	1150	See COC	DTC	HCl	See COC	3x WA (HCl) 2x IL 2x IL (HCl)

Sampling Personnel Signature: Daniel T. Cuo Date: 1/5/21

Stone Environmental, Inc. Field Instrument Calibration Record

Project Name: LFD Date: 1/6/21 Sampler (Sig/Date): DTL
 SEI Project Number: 19-015 Task: GW
 Project Location: Brattleboro, VT Checked By/Date: _____
 Weather Conditions (AM): 30, cloudy Weather Conditions (PM): _____

MULTI-PARAMETER WATER QUALITY METER							
AM Calibration				Post Calibration Check			
Meter Type:	Model NO.:	Unit ID NO.:	Start Time	End Time	Start Time	End Time	
YSI	PRO+	6789	0455	525	1610	1625	
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
pH (4)	SU	4.0	±0.1 pH Units				
pH (7)	SU	7.0	±0.1 pH Units	7.0	7.07	±0.3 pH Units	
pH (10)	SU	10.0	±0.1 pH Units				
ORP	mV	220	±10 mV	220	233	±10 mV	
Specific Conductance	µs/cm	1200	±0.5% of Standard	1413	1404	±5% of Standard	
Dissolved Oxygen	%	100	±2% of Standard	100	98.5%	±0.5 mg/L of sat. val.	
Temperature	°C	16.1					
Baro. Press.	mmHg						

TURBIDITY METER							
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
NTU			±0.3 NTU of stan. Of 1.0 NTU or less. ±5% of standards >5 NTU	20.1	0.02	±0.3 NTU of stan. Of 1.0 NTU or less. ±5% of standards >5 NTU	
NTU				20	20.8		
NTU				100	102		

PHOTONIZATION DETECTOR							
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Background	ppmv	0.0	within 5 ppmv of BG	0.0		within 5 ppmv of BG	
Span Gas	ppmv	100	±10% of standard	100		±10% of standard	

O ₂ -LEL 4 GAS METER							
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Methane	%	50	±10% of standard	50		±10% of standard	
O ₂	%	20.9	±10% of standard	20.9		±10% of standard	
H ₂ S	ppmv	25	±10% of standard	25		±10% of standard	
CO	ppmv	50	±10% of standard	50		±10% of standard	

Equipment calibrated within the Acceptance Criteria specified for each parameter listed above.
 Equipment not calibrated within the Acceptance Criteria specified for each parameter listed above**.

MATERIALS RECORD

Deionized/Distilled Water Source: MA
 Trip Blank Source: Lab
 Sample Preservative Source: Lab
 Disposable Filter Type: MA
 DO Calibration Fluids Source: tap
 Other: _____

	Calibration Standard Lot #	Exp. Date
pH (4)	<u>geotech 06A042</u>	<u>1/22</u>
pH (7)	<u>9G4321</u>	<u>8/21</u>
pH (10)	<u>06A1107</u>	<u>1/22</u>
ORP	<u>06J1826</u>	<u>7/21</u>
Spec. Conductivity	<u>060312</u>	<u>4/21</u>
Turb. Stan.		
Turb. Stan.		
Turb. Stan.		
PID Scan Gas		
O ₂ LEL		
Other		

NOTES: ⊗ Parameter was calibrated to standard value
⊖ cannot be calibrated
⊕ calibrated turbidity per manufacturer instructions (all standards)



* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations. ** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

Stone Environmental, Inc. Field Instrument Calibration Record

Project Name: LFP Date: 1/6/21 Sampler (Sig/Date):
 SEI Project Number: 14-015 Task: GW
 Project Location: Brattleboro, VT Checked By/Date:
 Weather Conditions (AM): 30, cloudy Weather Conditions (PM):

MULTI-PARAMETER WATER QUALITY METER				Post Calibration Check		
Meter Type: <u>YSI</u>	AM Calibration			Start Time <u>1610</u> / End Time <u>1625</u>		
Model NO.: <u>P10+</u>	Start Time <u>0455</u>	End Time <u>525</u>		Start Time <u>1610</u>	End Time <u>1625</u>	
Unit ID NO.: <u>6819</u>	*Acceptance Criteria (AM)			*Acceptance Criteria (PM)		
	Units	Standard Value	Meter Value	Standard Value	Meter Value	Criteria (PM)
pH (4)	SU	4.0	<u>3.99</u>			±0.1 pH Units
pH (7)	SU	7.0	<u>7.10</u> *	7.0	<u>7.01</u>	±0.3 pH Units
pH (10)	SU	10.0	<u>10.07</u> *			±0.1 pH Units
ORP	mV	<u>220</u>	<u>217</u>	<u>220</u>	<u>234.8</u>	±10 mV
Specific Conductance	µs/cm	<u>1200</u>	<u>1139</u>	<u>1413</u>	<u>978</u>	±5% of Standard
Dissolved Oxygen	%	<u>100</u>	<u>98.2</u>	<u>100</u>	<u>98.2</u>	±0.5 mg/L of sat. val.
Temperature	°C		<u>16.2</u>			
Baro. Press.	mmHg		<u>735.2</u>			

TURBIDITY METER				Unit ID NO.: <u>6134</u>		
Meter Type: <u>Geotech</u>	Model NO.: <u>Turbidity</u>			*Acceptance Criteria (PM)		
	Units	Standard Value	Meter Value	Standard Value	Meter Value	Criteria (PM)
	NTU			<u>20.1</u>	<u>1.0</u>	±0.3 NTU of stan. Of
	NTU			<u>200</u>	<u>21</u>	1.0 NTU or less. ±5%
	NTU			<u>100</u>	<u>102</u>	of standards >5 NTU

PHOTONIZATION DETECTOR				Unit ID NO.:		
	Units	Standard Value	Meter Value	Standard Value	Meter Value	*Acceptance Criteria (PM)
Background	ppmv	0.0		0.0		within 5 ppmv of BG
Span Gas	ppmv	100		100		±10% of standard

O ₂ -LEL 4 GAS METER				Unit ID NO.:		
	Units	Standard Value	Meter Value	Standard Value	Meter Value	*Acceptance Criteria (PM)
Methane	%	50		50		±10% of standard
O ₂	%	20.9		20.9		±10% of standard
H ₂ S	ppmv	25		25		±10% of standard
CO	ppmv	50		50		±10% of standard

Equipment calibrated within the Acceptance Criteria specified for each parameter listed above.
 Equipment not calibrated within the Acceptance Criteria specified for each parameter listed above**.

MATERIALS RECORD		Calibration Standard Lot #		Exp. Date
Deionized/Distilled Water Source:		pH (4)	<u>geotech 06A042</u>	<u>1/12</u>
Trip Blank Source:		pH (7)	<u>954321</u>	<u>8/21</u>
Sample Preservative Source:		pH (10)	<u>06A1107</u>	<u>1/22</u>
Disposable Filter Type:		ORP	<u>06G1026</u>	<u>7/21</u>
DO Calibration Fluids Source:		Spec. Conductivity	<u>06D312</u>	<u>4/21</u>
Other:		Turb. Stan.		
		Turb. Stan.		
		Turb. Stan.		
		PID Scan Gas		
		O ₂ LEL		
		Other		

NOTES: * Parameter was calibrated to standard value. Do not calibrate, states values cannot be accepted in range.
 ② Reattempted several times & recalibrated successfully



* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations. ** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

① calibrated all standards per manufacturer instructions



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Company Name: Stone Environmental Inc
 Address: 525 Stone Cutters Way, Montpelier
 Phone: VT 05602 802-309-1688
 Project Name: Lamb Falls Paper board
 Project Location: Recharboro VT
 Project Number: 19-015
 Project Manager: Lee Rosbery
 Con-Test Quote Name/Number:

Invoice Recipient:
 Sampled By:

http://www.contestlabs.com

39 Spruce Street
 East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Requested Turnaround Time: 7-Day 10-Day PFAS 10-Day (std) Rush Approval Required: 1-Day 2-Day 3-Day 4-Day Dissolved Metals Samples: Field Filtered Lab to Filter Orthophosphate Samples: Field Filtered Lab to Filter Data Delivery: PDF EXCEL

Format: Excel
 Other: Edis EDD 6-7-19-19
 CLP Like Data Pkg Required:
 Email To: rosberg@stone-env.com
 Fax To #:

Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
IP-DID	11/05/17	11/30	G	GW	U	3	4			
IP-03D	11/05/17	11/30	G	SW	U	3	4			
IP-03D-7D	11/05/17	11/30	G	SW	U	3	4			
TB-010021	11/01/11	1000	G	GW	G	2				

Client Comments:

Relinquished by: (signature)	Date/Time:
<u>Donna J. Shaw</u>	10/21 1000
<u>[Signature]</u>	11/02/18
Relinquished by: (signature)	
Received by: (signature)	
Relinquished by: (signature)	
Received by: (signature)	
Relinquished by: (signature)	
Received by: (signature)	

Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

Special Requirements:
 MA MCP Required
 MCP Certification Form Required
 CT BCP Required
 BCP Certification Form Required
 MA State DW Required

Detection Limit Requirements:
 MA
 CT
 Other:

Project Entity:
 Government
 Federal
 City

Municipality: 21 J
 Brownfield

MWRA
 School
 MBTA

WRTA

Other: Chromatogram
 AIMA-LAP, LLC

NECAC and AIMA-LAP, LLC Accredited

Disclaimers: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

MONITORING WELL SAMPLING FORM

Project Name:	Long Falls Paperboard	Comments: Continued to low flow during pH check pH 2 cal solution; read 7.02
SEI Project Number:	19-015	
Client:	Town of Brattleboro	
Project Manager:	Lee Rosberg	

WELL ID	IP-01D	Equipment ID / SN
Sample Date	January 5, 2021	Pump
SOP/SSP #'s Followed	SEI SOP 5.09.3	Water Level Indicator:
Sampling Method	Bladder Pump <input checked="" type="checkbox"/> Per Pump <input type="checkbox"/> In-parallel Pump <input type="checkbox"/> Bailer <input type="checkbox"/> Other <input type="checkbox"/>	Water Quality Sonde:
Sampling Personnel	LBR	Turbidity Meter:
Weather	35	Other:

Calculate Purge Volumes

Time of water level measurement (military): 1140 Depth of Pump/Intake: 105 feet Measuring Point Description: TOC Well Screen Length: 10

Total Well Depth (btoc): 110 feet Depth to Water (btoc): 69.60 feet Height of Water Column: 40.4 feet

One Well Volume = _____ liters

X 0.155 liters/feet (1-inch well)
X 0.367 liters/feet (1.5-inch well)
X 0.617 liters/feet (2-inch well)

Time purging began (military): 1210 3X One Well Volume liters

Time purging ended (military): _____ 5X One Well Volume liters

Water Level (ft btoc)	Cumulative Vol. Purged (mL)	Time (Military)	Flow Rate (mL/min)	Temp (°C) (± 3%)	ORP (mV) (± 10 mV)	pH (su) (± 0.1 su)	DO (mg/L) (± 10% or 3 consecutive readings < 0.5 mg/L)	Conductivity (µS) (± 3%)	Turbidity (NTU) (± 10% or 3 consecutive readings < 5 NTU)
68.65	2000	1225	200	10.6	-211.3	11.95	6.12	1094	113
68.65	6000	1245	200	10.8	-218.4	11.45	4.80	961	N.R.
68.63	7000	1250	200	10.7	-230.4	11.57	4.43	955	43.9
68.65	3000	1255	200	10.8	-236.7	11.51	3.82	914	36.0
N.R.	9000	1300	200	10.8	-240.5	11.43	3.24	872	32.8
68.65	10000	1305	200	10.9	-243.1	11.31	2.98	839	31.3
68.63	11000	1310	200	10.8	-246.5	11.10	2.48	807	32.0
N.R.	12000	1315	200	10.8	-249.5	10.81	2.10	795	28.0
N.R.	13000	1320	200	10.7	-250.2	10.70	2.11	797	23.5
N.R.	14000	1325	200	10.7	-251.5	10.40	1.76	806	21.7
N.R.	15000	1330	200	10.6	-251.3	10.32	1.67	800	20.2
N.R.	16000	1335	200	10.5	-252.7	10.16	1.60	815	16.3
N.R.	17000	1340	200	10.5	-251.4	10.09	1.50	823	16.4
68.63	18000	1345	200	10.5	-250.2	9.94	1.50	831	15.4

Total Vol. Removed: _____ Liters (V) Meters Calibrated (V) _____ Min. 3 Well Vol. Purged (V) _____ Parameters Stable for 3 consecutive measurements

Sample Identification	Time Collected (Military)	Container	Sampled By (Initials)	Preservation	Analysis	Additional Comments
IP-01D	1430	HCl	LBR	3x40mL	VOCs	See reverse side.
		-	LBR	2x1L	SVOCs	
		HCl	LBR	2x1L	EPH	

Sampling Personnel Signature: L. Rosberg Date: 01/05/21

WL	Vol.	Time	Flow Rate	Temp.	ORP	pH	DO	Cond.	Turb.
N.R.	19000	1350	300	10.5	-249.8	9.91	1.53	840	12.1
N.R.	20000	1355	300	10.5	-249.9	9.87	1.47	844	11.3
N.R.	21000	1400	300	10.5	-250.2	9.85	1.41	850	14.0
N.R.	22000	1405	300	10.5	-250.3	9.84	1.42	856	12.1 12.1
N.R.	23000	1410	300	10.5	-248.5	9.77	1.33	862	10.2
N.R.	24000	1415	300	10.3	-248.7	9.78	1.36	867	10.0
N.R.	25000	1420	200	10.3	-248.2	9.77	1.37	870	9.76

MONITORING WELL SAMPLING FORM

Project Name:	Long Falls Paperboard	Comments:
SEI Project Number:	19-015	
Client:	Town of Brattleboro	
Project Manager:	Lee Rosberg	

WELL ID	IP-28 ^{SIC 1/6/21}	Equipment ID / SN	
Sample Date	1/6/21	Pump:	4166
SOP/SSP's Followed	SEI SOP 5.49.1	Water Level Ind. Color:	474
Sampling Method	Bladder Pump <input checked="" type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Impeller Pump <input type="checkbox"/> Bole <input type="checkbox"/> Other <input type="checkbox"/>	Water Quality Scale:	6819
Sampling Personnel	SJR + DTC	Turbidity Meter	6134
Weather	35° F, partly cloudy	Other	

Calculate Purge Volumes

Time of water level measurement (military):	1300	Depth of Pump/Intake:	112 feet	Measuring Point Description:	TU	Well Screen Length:	5
Total Well Depth (btoc)	115 feet	Depth to Water (btoc)	68.70 feet	Height of Water Column		One Well Volume	
				<input type="checkbox"/> 0.105 liters/feet (1 inch well) <input type="checkbox"/> 0.367 liters/feet (1.5-inch well) <input checked="" type="checkbox"/> 0.617 liters/feet (2-inch well)			
Time purging began (military):	1325			3 X One Well Volume			
Time purging ended (military):	1410			5 X One Well Volume			

Water Level (ft btoc)	Cumulative Vol. Purged (mL)	Time (Military)	Flow Rate (mL/min)	Temp (°C) (± 0.3%)	ORP (mV) (± 10 mV)	pH (su) (± 0.1 su)	DO (mg/L) (± 0.05 or 3 consecutive readings < 0.5 mg/L)	Conductivity (µS) (± 3%)	Turbidity (NTU) (± 10% or 3 consecutive readings < 5 NTU)
68.10		13:30		11.6	-282.6	6.92	7.06	411.4	317
68.05		13:35		11.4	-337.4	6.98	3.85	421.1	200
68.09		13:40		11.4	-368.6	6.99	1.78	422.6	NC
NC		13:50		11.2	-374.4	7.05	1.77	422.3	62
68.06		13:55		11.3	-375.3	7.01	1.77	423.6	50
68.07		14:00		11.3	-385.8	7.00	1.77	424.2	35
68.07		14:05		11.3	-380.0	7.00	1.15	423.8	36
68.07		14:10		11.3	-379.6	7.01	1.17	422.6	35

Total Vol. Removed: ~8 Liters Meters Calibrated Min. 3 Well Vol. Purged Parameters Stable for 3 consecutive measurements

Sample Identification	Time Collected (Military)	Container(s)	Sampled By (Initials)	Preservation	Analysis	Additional Comments
IP-28	1420	3x40 mL	DTC	HCL	VOCs	
		2x 1 L		-	SVOCs	
		2x 1 L		HCL	EPH	

Sampling Personnel Signature [Signature] Date 1/6/21

2021 11/11

Stone Environmental, Inc. Field Instrument Calibration Record

Project Name: Long Falls Paperboard Date: 01/05/21 Sampler (Sig/Date):
 SEI Project Number: 19-015 Task: GW Monitoring
 Project Location: Brattleboro Checked By/Date:
 Weather Conditions (AM): 35 Weather Conditions (PM):

MULTI-PARAMETER WATER QUALITY METER					Post Calibration Check		
Meter Type:	AM Calibration				Start Time	/End Time	
Model NO.:	<u>Pro Plus</u>	Start Time	<u>9:50</u>	/End Time	<u>10:20</u>		
Unit ID NO.:	<u>6819</u>						
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
pH (4)	SU 4.0	<u>3.59</u>	±0.1 pH Units				
pH (7)	SU 7.0	<u>6.92</u>	±0.1 pH Units	7.0		±0.3 pH Units	
pH (10)	SU 10.0	<u>10.04</u>	±0.1 pH Units				
ORP	mV 250 <u>220</u>	<u>219.2</u>	±10 mV	250		±10 mV	
Specific Conductance	µs/cm <u>1413</u>	<u>1413</u>	±0.5% of Standard			±5% of Standard	
Dissolved Oxygen	% <u>106</u>	<u>101.2</u>	±2% of Standard			±0.5 mg/L of sat. val.	
Temperature	°C <u>10.9</u>						
Baro. Press.	mmHg						

TURBIDITY METER							
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
NTU	<u>300</u>	<u>304</u>	±0.3 NTU of stan. Of			±0.3 NTU of stan. Of	
NTU	<u>100</u>	<u>95.4</u>	1.0 NTU or less. ±5%			1.0 NTU or less. ±5%	
NTU	<u>20</u>	<u>19.8</u>	of standards >5 NTU			of standards >5 NTU	

PHOTIONIZATION DETECTOR							
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Background	ppmv 0.0	<u>N/A</u>	within 5 ppmv of BG	0.0		within 5 ppmv of BG	
Span Gas	ppmv 100	<u>01/05/21</u>	±10% of standard	100		±10% of standard	

O ₂ -LEL & GAS METER							
Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Methane	% 50		±10% of standard	50		±10% of standard	
O ₂	% 20.9		±10% of standard	20.9		±10% of standard	
H ₂ S	ppmv 25		±10% of standard	25		±10% of standard	
CO	ppmv 50		±10% of standard	50		±10% of standard	

- Equipment calibrated within the Acceptance Criteria specified for each parameter listed above.
 Equipment not calibrated within the Acceptance Criteria specified for each parameter listed above**.

MATERIALS RECORD			Calibration Standard Lot #		Exp. Date
Deionized/Distilled Water Source:			pH (4)	<u>06A042</u>	<u>01/22</u>
Trip Blank Source:			pH (7)	<u>96H321</u>	<u>08/21</u>
Sample Preservative Source:			pH (10)	<u>06A1107</u>	<u>01/22</u>
Disposable Filter Type:			ORP	<u>0631026</u>	<u>07/21</u>
DO Calibration Fluids Source:			Spec. Conductivity	<u>06A0312</u>	<u>04/21</u>
Other:			Turb. Stan. <u>600</u>	<u>L13D</u>	<u>03/22</u>
			Turb. Stan. <u>100</u>	<u>L13D</u>	<u>03/22</u>
			Turb. Stan. <u>20</u>	<u>L13D</u>	<u>03/22</u>
			PID Scan Gas		
			O ₂ LEL		
			Other		



* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations. **= If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

Stone Environmental, Inc. Field Instrument Calibration Record

Project Name: Long Falls Paperboard Date: 01/05/21 Sampler (Sig/Date):
 SEI Project Number: 19-015 Task: GW Monitoring
 Project Location: Battleboro Checked By/Date:
 Weather Conditions (AM): 35' Weather Conditions (PM):

MULTI-PARAMETER WATER QUALITY METER					Post Calibration Check		
Meter Type:	AM Calibration						
Model NO.:	Start Time	/End Time			Start Time	/End Time	
Unit ID NO.:	*Acceptance Criteria (AM)				*Acceptance Criteria (PM)		
Units	Standard Value	Meter Value		Standard Value	Meter Value		
pH (4)	SU	4.0	3.99	±0.1 pH Units			
pH (7)	SU	7.0	6.95	±0.1 pH Units	7.0		±0.3 pH Units
pH (10)	SU	10.0	10.01	±0.1 pH Units			
ORP	mV	250 214	220	±10 mV	250		±10 mV
Specific Conductance	µs/cm	1413	1412	±0.5% of Standard			±5% of Standard
Dissolved Oxygen	%	100	100.1	±2% of Standard			±0.5 mg/L of sat. val.
Temperature	°C	13.6					
Baro. Press.	mmHg						

TURBIDITY METER					Post Calibration Check		
Meter Type:	AM Calibration						
Model NO.:	Start Time	/End Time			Start Time	/End Time	
Unit ID NO.:	*Acceptance Criteria (AM)				*Acceptance Criteria (PM)		
Units	Standard Value	Meter Value		Standard Value	Meter Value		
NTU	300	264		±0.3 NTU of stan. Of			±0.3 NTU of stan. Of
NTU	100	101		1.0 NTU or less. ±5%			1.0 NTU or less. ±5%
NTU	20	20.1		of standards >5 NTU			of standards >5 NTU

PHOTIONIZATION DETECTOR					Post Calibration Check		
Meter Type:	AM Calibration						
Model NO.:	Start Time	/End Time			Start Time	/End Time	
Unit ID NO.:	*Acceptance Criteria (AM)				*Acceptance Criteria (PM)		
Units	Standard Value	Meter Value		Standard Value	Meter Value		
Background	ppmv	0.0		within 5 ppmv of BG	0.0		within 5 ppmv of BG
Span Gas	ppmv	100	N/A	±10% of standard	100		±10% of standard

O ₂ -LEL 4 GAS METER					Post Calibration Check		
Meter Type:	AM Calibration						
Model NO.:	Start Time	/End Time			Start Time	/End Time	
Unit ID NO.:	*Acceptance Criteria (AM)				*Acceptance Criteria (PM)		
Units	Standard Value	Meter Value		Standard Value	Meter Value		
Methane	%	50		±10% of standard	50		±10% of standard
O ₂	%	20.9		±10% of standard	20.9		±10% of standard
H ₂ S	ppmv	25		±10% of standard	25		±10% of standard
CO	ppmv	50		±10% of standard	50		±10% of standard

- Equipment calibrated within the Acceptance Criteria specified for each parameter listed above.
- Equipment not calibrated within the Acceptance Criteria specified for each parameter listed above**.

MATERIALS RECORD		Calibration Standard Lot #		Exp. Date
Deionized/Distilled Water Source:		pH (4)	06A042	01/22
Trip Blank Source:		pH (7)	96H321	08/21
Sample Preservative Source:		pH (10)	06A1107	01/22
Disposable Filter Type:		ORP	09J1026	07/21
DO Calibration Fluids Source:		Spec. Conductivity	06D312	04/21
Other:		Turb. Stan. 500	L4 3430	09/21
		Turb. Stan. 100	L4 3430	09/21
		Turb. Stan. 20	L4 3430	09/21
		PID Scan Gas		
		O ₂ LEL		
		Other		



* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations. ** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

OBSERVATIONS AND REMARKS

Project Name/Description:

Long Falls Paperboard



STONE ENVIRONMENTAL

535 Stone Cutters Way / Montpelier / VT / 05602 / USA
802.229.4541 / info@stone-env.com / www.stone-env.com

SLI Project #: 19-015

Client/Sponsor:

Town of Brattleboro

- 1330 LBR on-site to develop MWs: IP-28, IP-1D.
Set up at IP-28 w/ Waterloo pump.
DTW @ start = 68.52'
- 1345 Begin purging. Purged 15 gallons. DTW @ end = 68.55'
End purging @ 1417.
- 1440 Set up @ IP-01D. DTW @ start = 68.98. Begin purging at
1442 end at 1459. Purged 7-gallons.
- 1510 LBR off-site

Signed: L. RaynakDate: 12/31/2020

OBSERVATIONS AND REMARKS

Project Name/Description: Long Falls Paperboard	STONE ENVIRONMENTAL <small>535 Stone Cutters Way / Montpelier / VT / 05602 / USA 802.229.4541 / info@stone-env.com / www.stone-env.com</small>
SFI Project #: 19-015	Client/Sponsor: Town of Brattleboro

0900 Prep for pressure transducer installation for river gauge. Equipment used:

- 100 ft. vented cable; rugged SN: 6528
- transducer; In-Situ Level Troll 700 SN: 564434
- cable connect SN: 741315

Followed SOP for set-up. Entered 1.66 ft for reference height (ground to WL). Transducer ~ 4" off bottom.

0929 Start logging.

0945 Calibrate VSI / turbidimeter

1030 Had issues getting plunger pump building pressure. Troubleshooting in air line, reconnected, took cover off pump to check check valve; reset. Solution connected pump to car battery.

1430 Set up on IP-WIS. Was not drawing water through well. There was some water in tubing but could not get it to low flow. Tried troubleshooting in DTC. Did not start low flow.

1545 Issues connecting to transducer; no connection established warning. Tried troubleshooting until computer died. Battery drained because of cold quickly.

1625 LBR / DTC off-site

Signed: L. Roynak Date: 01/05/21

Page: 1 of 1
84

OBSERVATIONS AND REMARKS

Project Name/Description: LFP Fuel Oil SI GW monitoring	 STONE ENVIRONMENTAL <small>535 Stone Cutters Way / Montpelier / VT / 05602 / USA 802.229.4541 / info@stone-env.com / www.stone-env.com</small>
SEI Project #: 19-015	Client/Sponsor: Town of Brattleboro

• on-site @ 7:30 DTC on-site
 • 7:30-11:30: Attempted to sample IP-35 with bladder pump into with DTC. trouble-shooted issues, no water quality parameters collected + no sample collected
 • 11:30-12:00: Attempted to sample IP-28. Bladder pump functions when tested in bucket of tap water but does not function in well (no water pumped). No sample collected.
 • 12:15: Spoke to Gabby + was shown interior locations where deep + shallow supply well samples formerly connected. Supply wells are currently off. Gabby to inquire regarding turning wells on and hose for sample collection.
 • 1:30: began successfully purging IP-28 after discussion with Geotech + low flow sampling
 • 14:00: collected water supply well samples
 • off-site @ 16:30

Signed:  Date: 1/6/21

OBSERVATIONS AND REMARKS

Project Name/Description: Long Falls Paper board	 STONE ENVIRONMENTAL 535 Stone Cutters Way / Montpelier / VT / 05602 / USA 802.229.4541 / info@stone-env.com / www.stone-env.com
SEI Project #: 19-015	Client/Sponsor: Town of Braintree

0945 LBR on-site to install remaining pressure transducers:

- IP-035
- IP-015
- IP-01D
- IP-28
- Production Well

1000 Carrier arrived to pickup groundwater samples

IP-035

Level Troll SN - 443656

Cable SN - 7029

DTW - 68.13

Transducer Height (approx) - 4'

Start Logging 1048. Made a few cable adjustments after start logging.

IP-015

Level Troll SN - 564392

Cable SN - 585033

DTW - 69.27

Transd. Height - ~5'

Start Time - 1117

IP-01D

Level Troll SN - 564177

Cable SN - 778305

DTW - 68.76

Transd. Height - ~4'

Start - 1136

IP-28

Level Troll - 564273

Cable - 13014

DTW - 68.12

Transd. - ~4'

Start - 1154

Signed: _____

L. Raynor

Date: _____

01/11/21

OBSERVATIONS AND REMARKS

Project Name/Description: LFP.	 STONE ENVIRONMENTAL 535 Stone Cutters Way / Montpelier / VT / 05602 / USA 802.229.4541 / info@stone-env.com / www.stone-env.com
SLI Project #: 19-015	Client/Sponsor: Town of Brattleboro

Production Well

Level Trall - 564442
Cable - 778361
DTW - 71.33
Pump Depth - 105'. Could not determine true depth and/or if it was well bottom or pump.
Transducer - 275'
Start Time - 1400

Transducer kept getting caught on things on the way down the well.

1405 LBR off-site

Signed: L. Raynor

Date: 01/11/24

Page: 2 of 2
87

OBSERVATIONS AND REMARKS

Project Name/Description:

LFP



STONE ENVIRONMENTAL

535 Stone Cutters Way / Montpelier / VT / 05602 / USA
802.229.4541 / info@stone-env.com / www.stone-env.com

SEI Project #:

19-015

Client/Sponsor:

LFP

1000 Stone on-site to pull pressure transducers. weather ~15°F, clear.

DTW IP-28 = 68.04'. stop log at 10:14. PT water level indicates 68.085'

DTW IP-15 = 69.33'. Log started at 1039. PT WL indicates: 69.20

DTW IP-10 = 68.82'. Log stopped at 1046. PT WL indicates: 68.784'

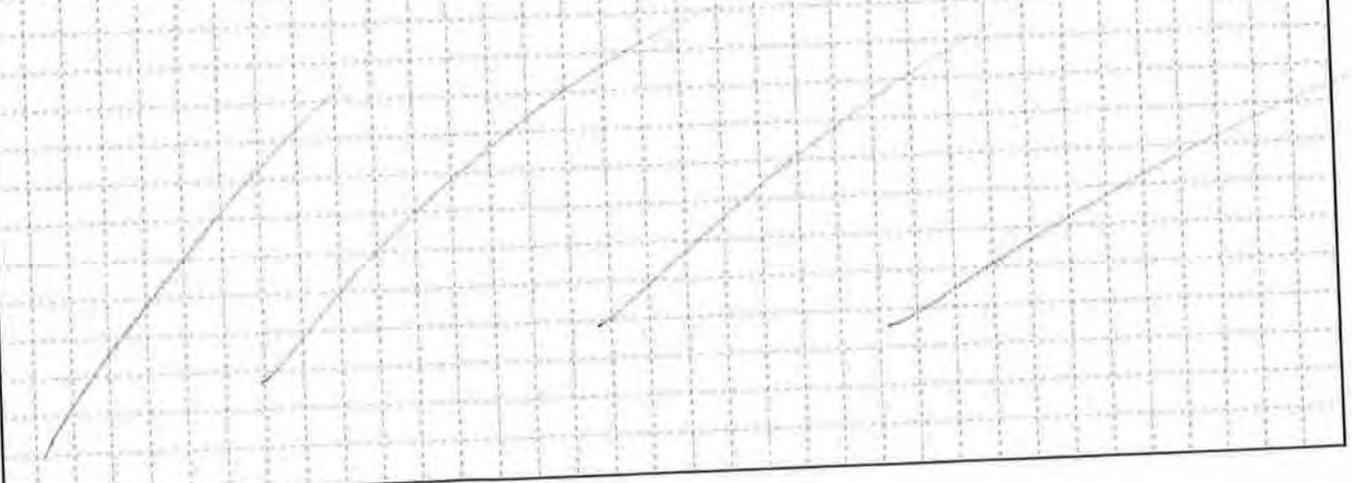
DTW IP-30 = 67.55'. Log stopped at 1055. PT WL indicates: 69.339

DTW IP-35 = 68.18'. Log stopped at 1103. PT WL indicates: 69.396

DTW PRODUCTION well = 75.15'. Log stopped at 1115. PT WL = 74.649

River Gauge 1.649: ~~for~~ transducer reading; Log stopped @ 1134. ~0.5' of ice build up at ^{transducer} well location. Transducer frozen inside stilling well at surface. PVC + fence post removed from river. 22 3/4" - 17.5" from river bottom to air surface. 39" TOC to surface water (ice build up)

1210 Stone off-site



Signed: Daniel J. [Signature]

Date: 1/25/21

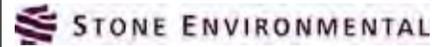
Page: 1 of 1

Soil Boring Log
BORING NO. IP-1D
Brattleboro, VT

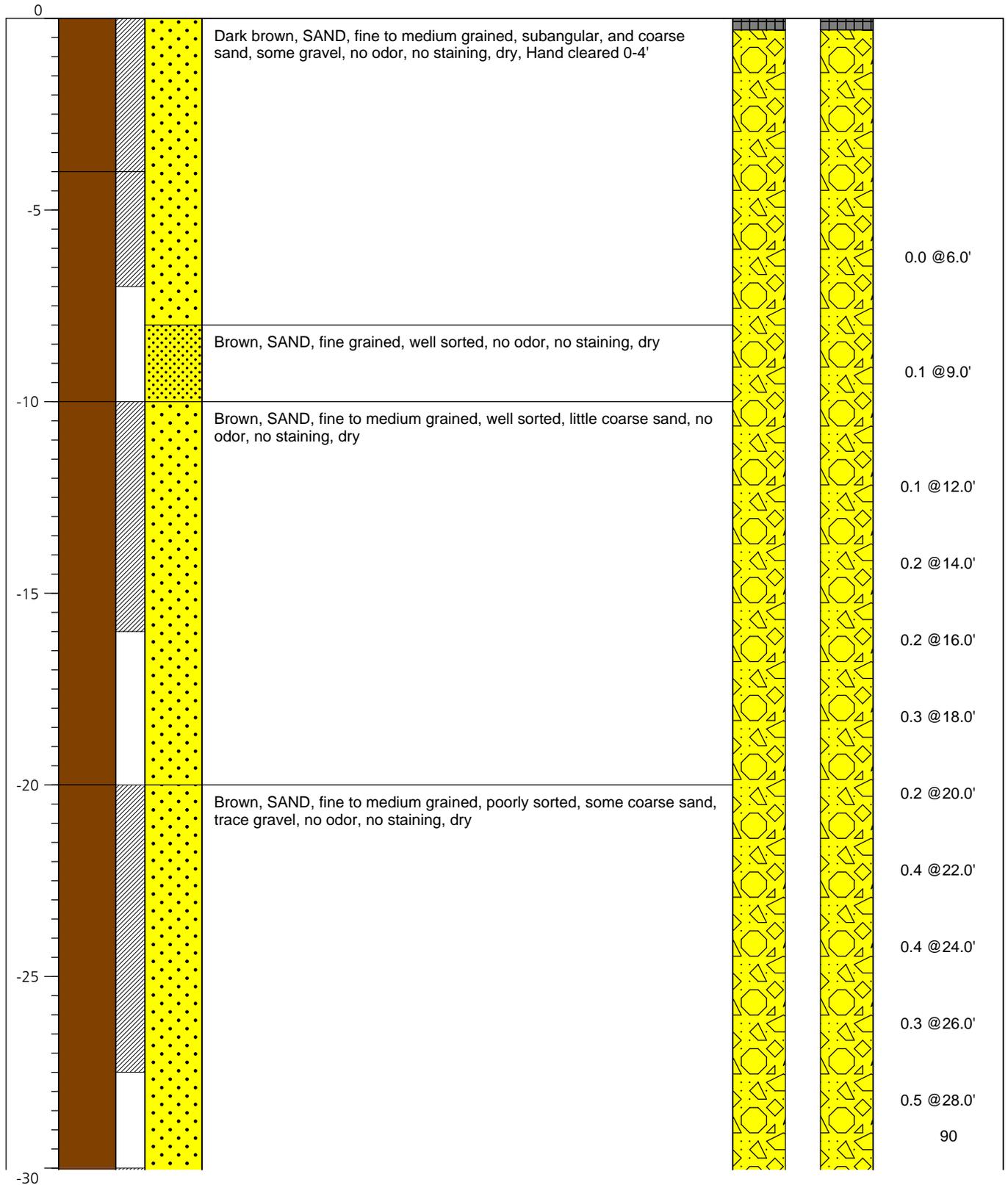
DATE DRILLED: 12/16/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 103-110' Bentonite: 100-103' Backfill: 0-100'
 Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
--------------	-----------------	----------	------------------------------	-------------------	---------------

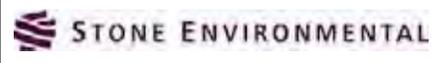


Soil Boring Log
BORING NO. IP-1D
 Brattleboro, VT

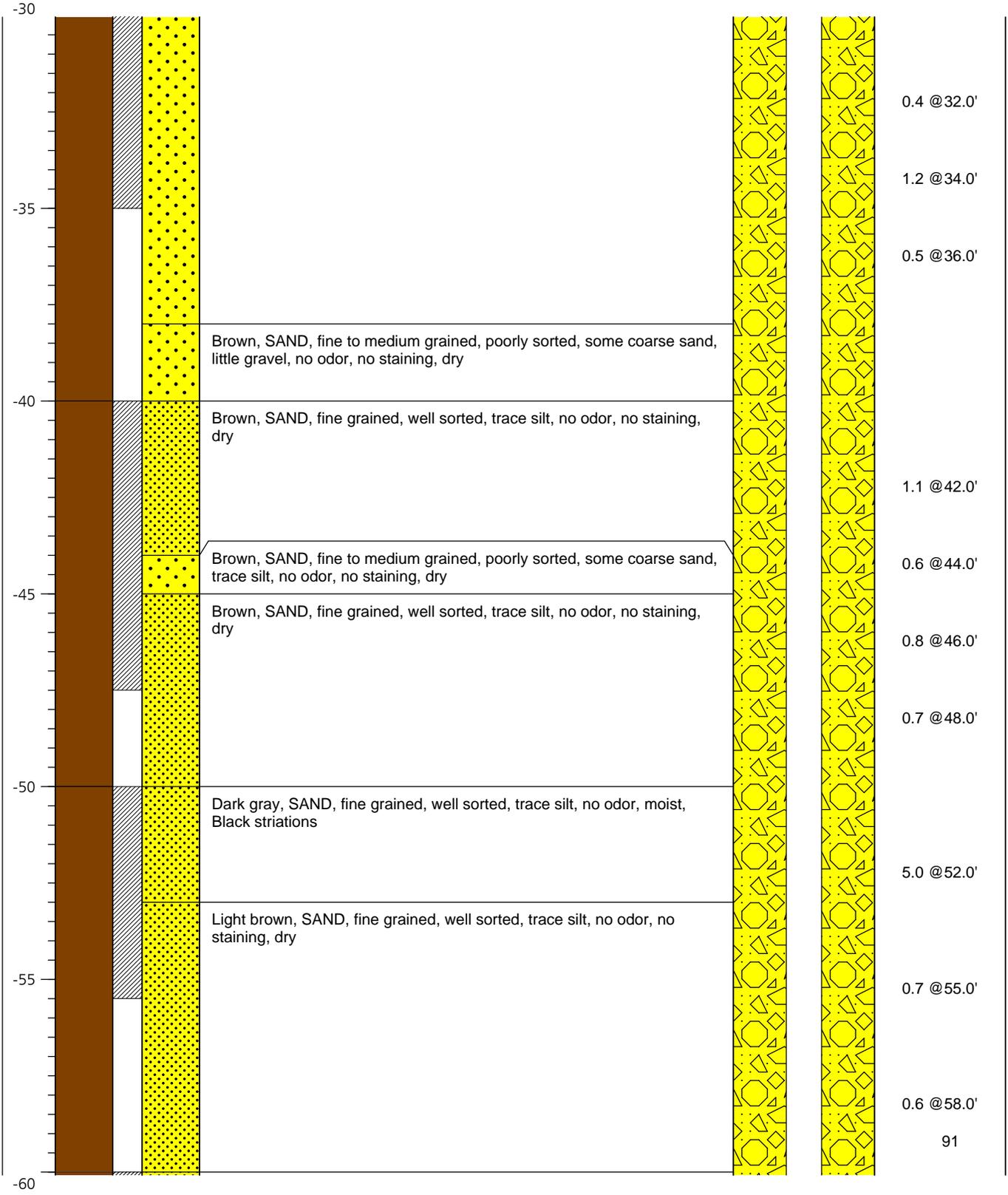
DATE DRILLED: 12/16/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 103-110' Bentonite: 100-103' Backfill: 0-100'
 Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
--------------	-----------------	----------	------------------------------	-------------------	---------------

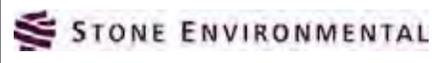


Soil Boring Log
BORING NO. IP-1D
Brattleboro, VT

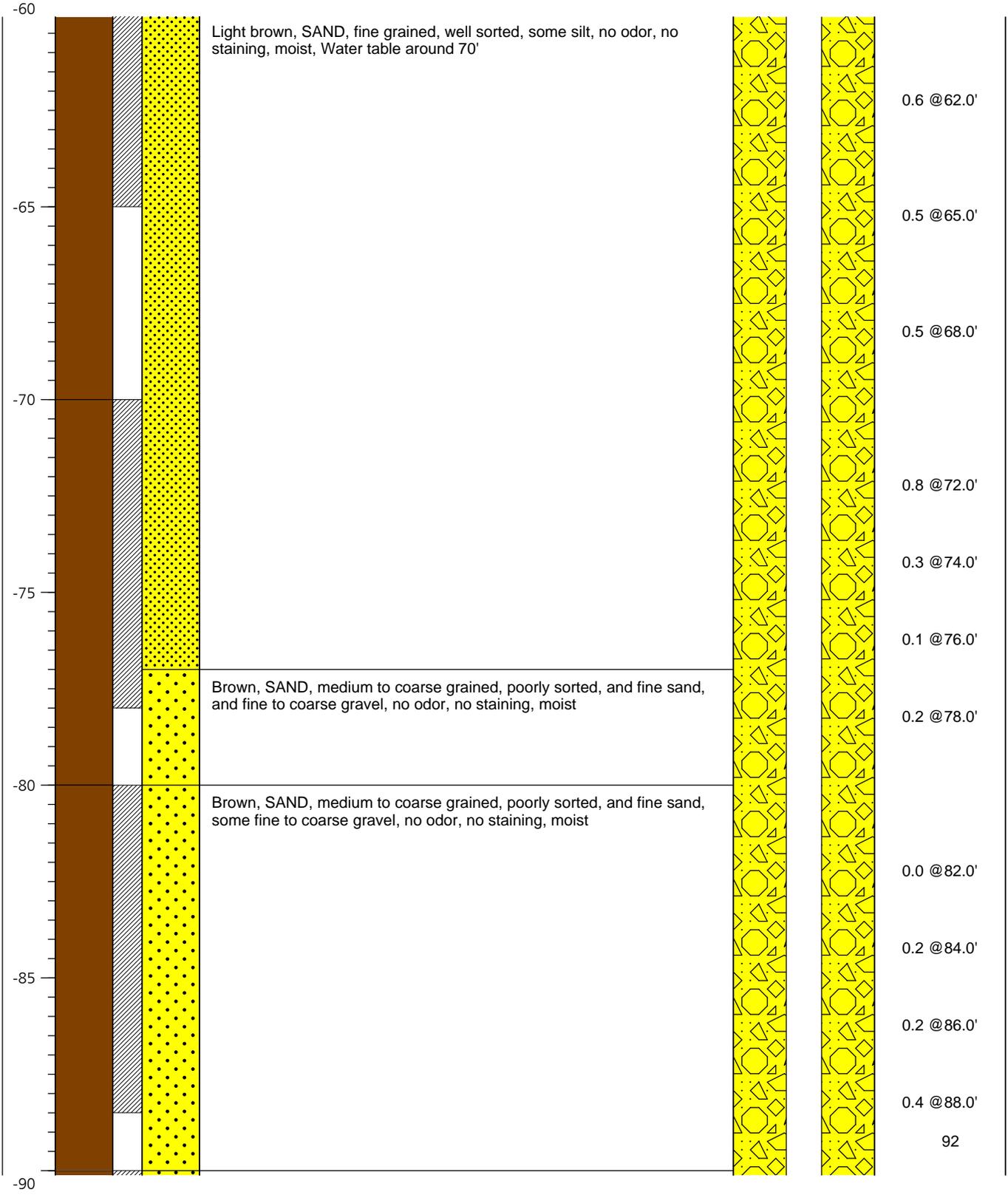
DATE DRILLED: 12/16/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 103-110' Bentonite: 100-103' Backfill: 0-100'
 Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
--------------	-----------------	----------	------------------------------	-------------------	---------------

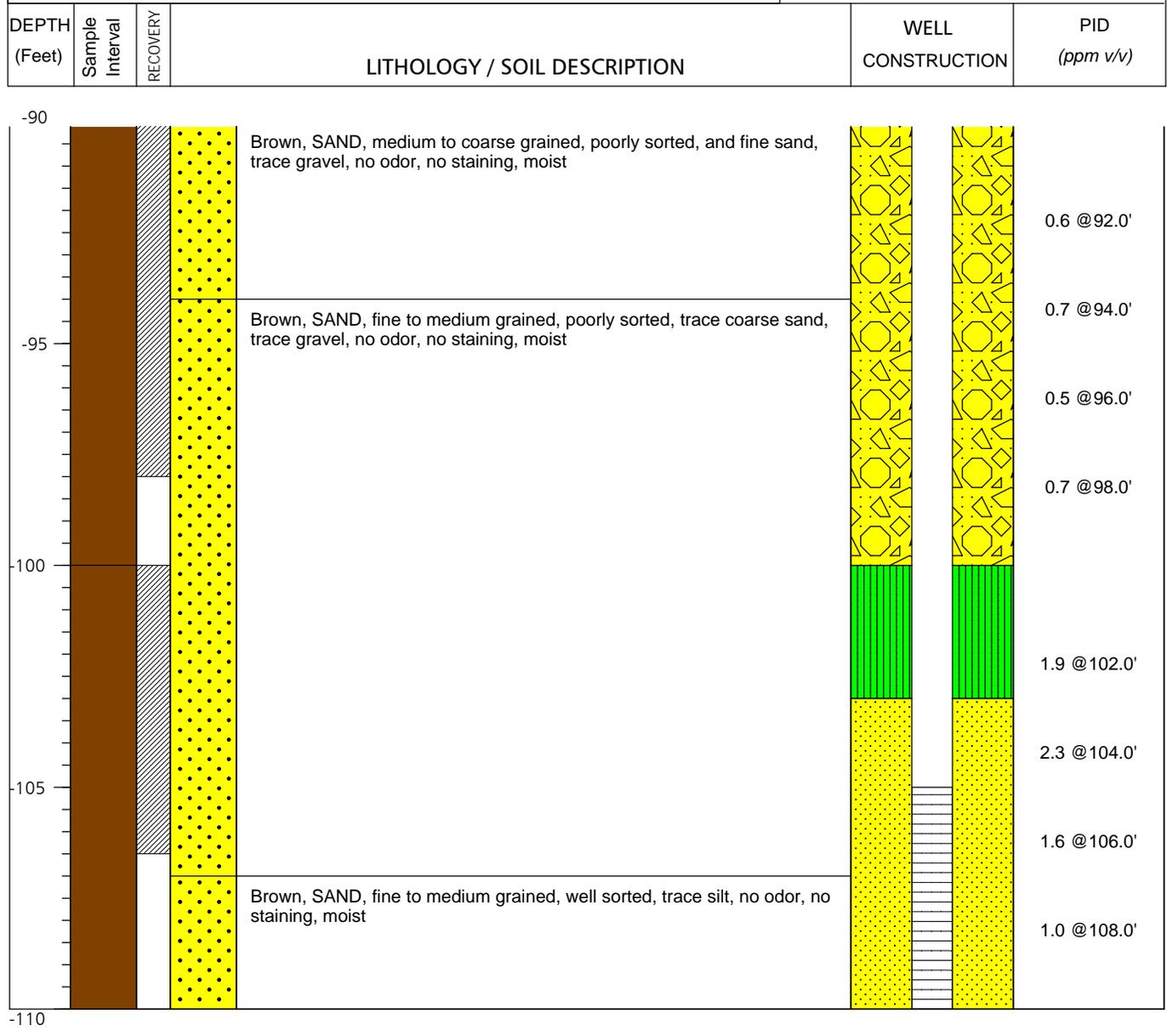
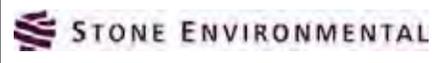


Soil Boring Log
BORING NO. IP-1D
 Brattleboro, VT

DATE DRILLED: 12/16/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 103-110' Bentonite: 100-103' Backfill: 0-100'
 Completed with road box.

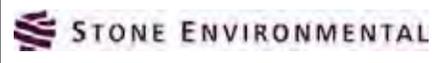


Soil Boring Log
BORING NO. IP-3D
Brattleboro, VT

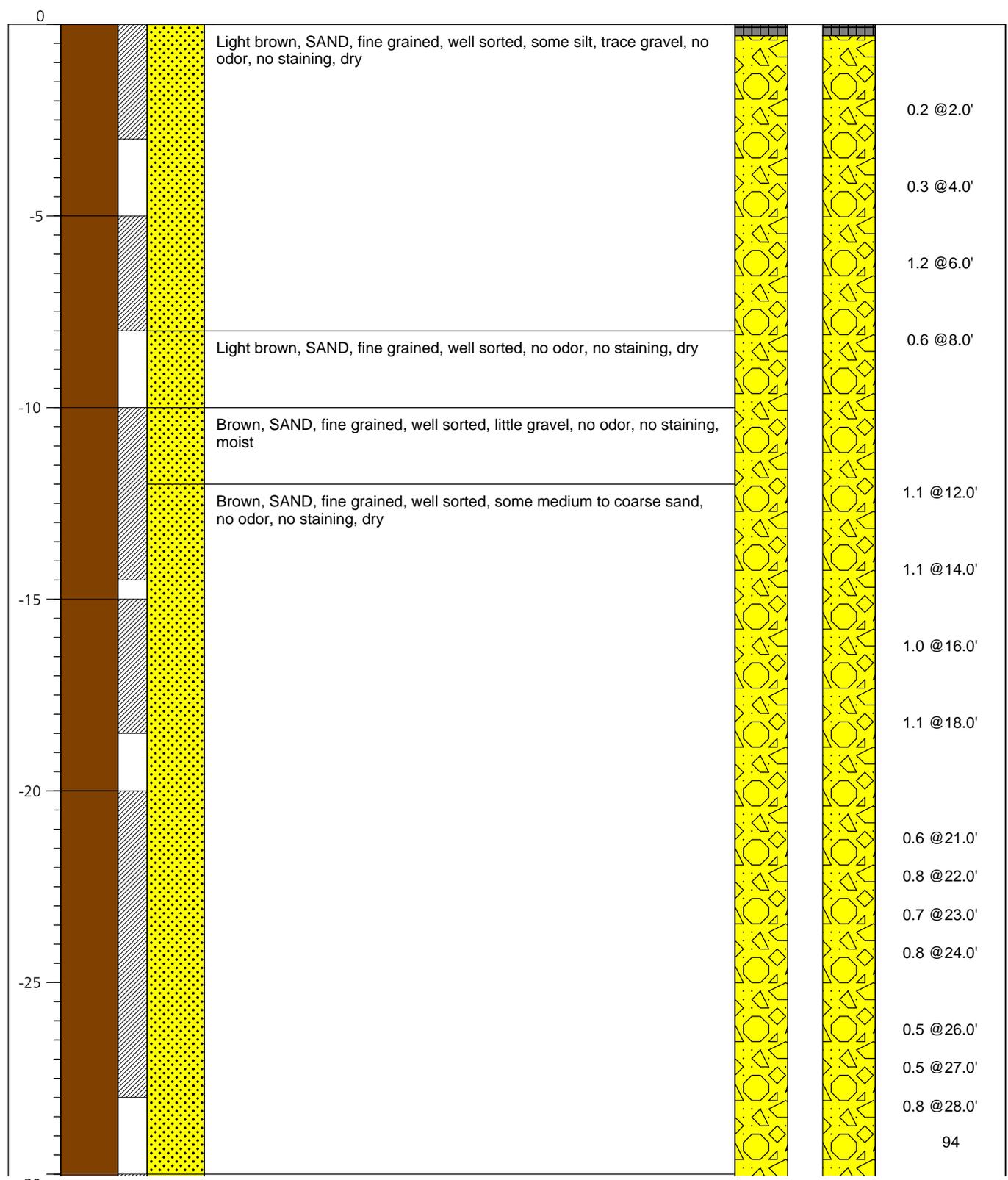
DATE DRILLED: 12/14/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Backfilled 110-170'. Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
--------------	-----------------	----------	------------------------------	-------------------	---------------

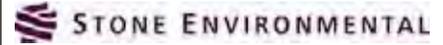


Soil Boring Log
BORING NO. IP-3D
Brattleboro, VT

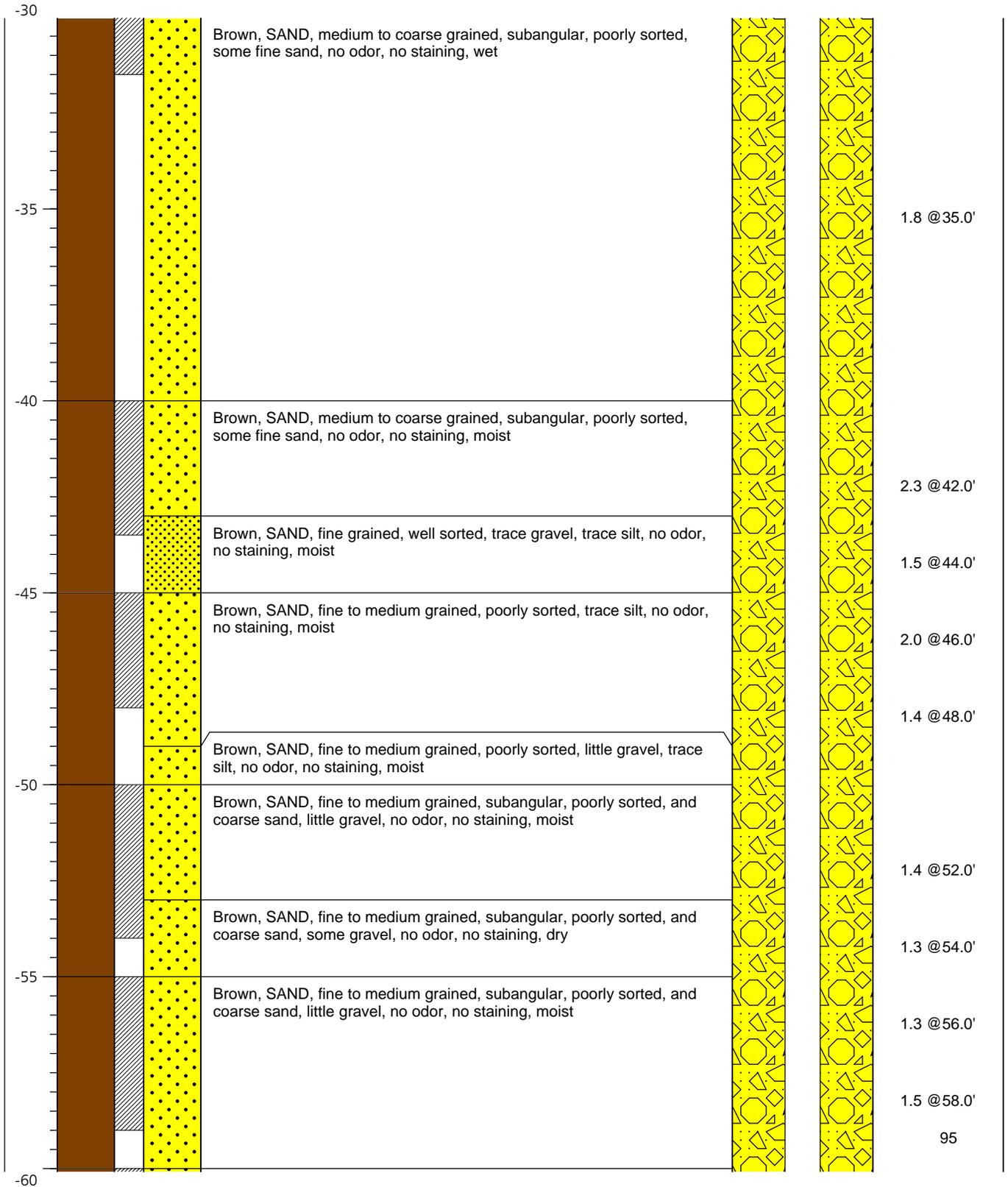
DATE DRILLED: 12/14/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Backfilled 110-170'. Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
-----------------	--------------------	----------	------------------------------	----------------------	------------------

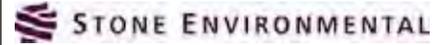


Soil Boring Log
BORING NO. IP-3D
Brattleboro, VT

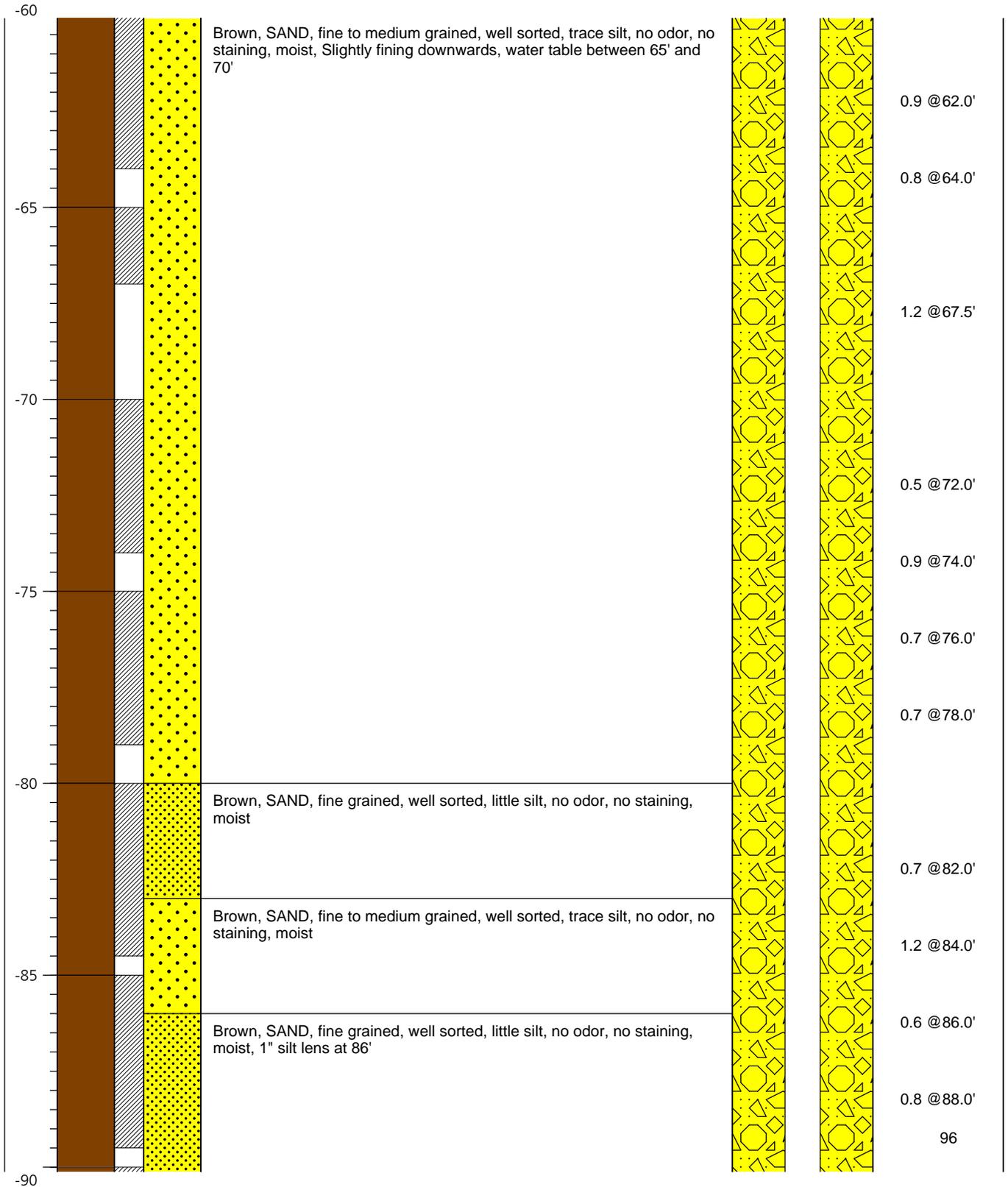
DATE DRILLED: 12/14/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Backfilled 110-170'. Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
-----------------	--------------------	----------	------------------------------	----------------------	------------------

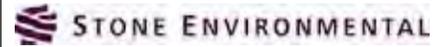


Soil Boring Log
BORING NO. IP-3D
 Brattleboro, VT

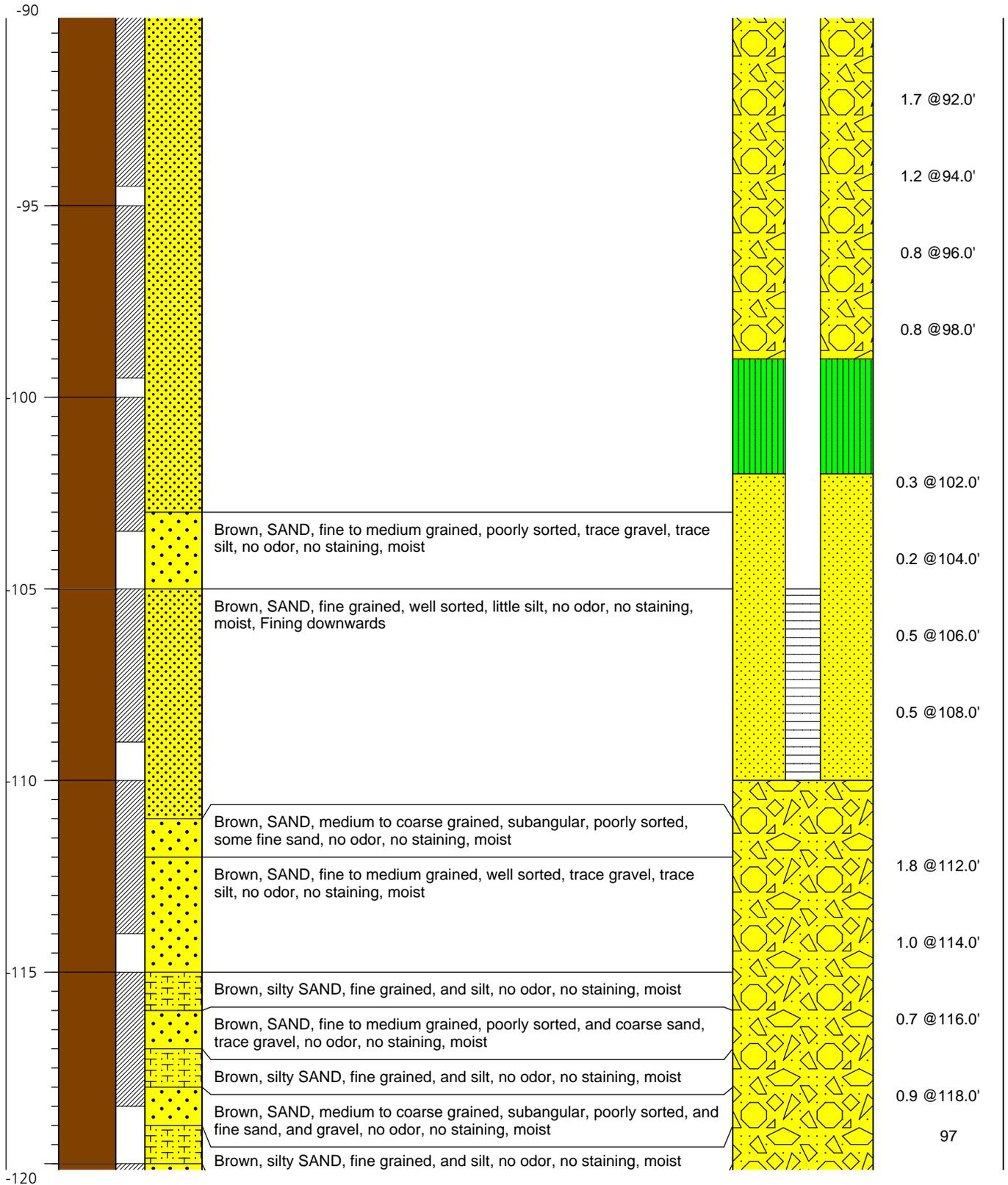
DATE DRILLED: 12/14/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Backfilled 110-170'. Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
--------------	-----------------	----------	------------------------------	-------------------	---------------

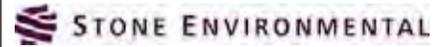


Soil Boring Log
BORING NO. IP-3D
Brattleboro, VT

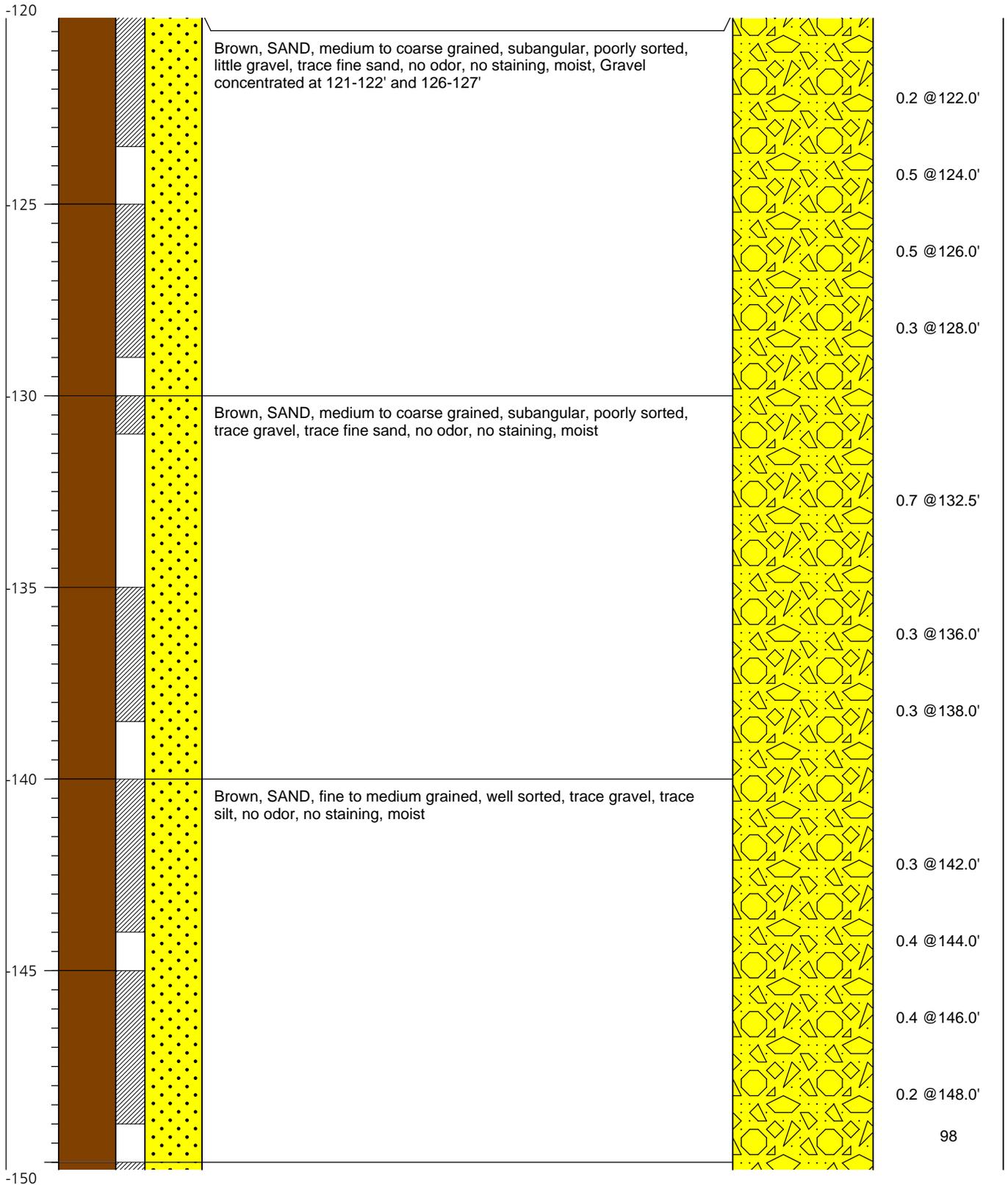
DATE DRILLED: 12/14/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Backfilled 110-170'. Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
-----------------	--------------------	----------	------------------------------	----------------------	------------------

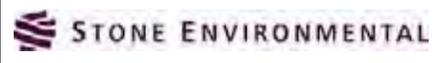


Soil Boring Log
BORING NO. IP-3D
Brattleboro, VT

DATE DRILLED: 12/14/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Backfilled 110-170'. Completed with road box.



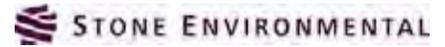
DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
-150			Brown, SAND, fine to medium grained, well sorted, trace silt, no odor, no staining, moist		
					0.7 @ 152.0'
					0.6 @ 154.0'
-155					0.4 @ 156.0'
			Brown, SAND, fine grained, well sorted, trace silt, no odor, no staining, moist		
					0.6 @ 158.0'
-160			Brown, SAND, fine to medium grained, well sorted, trace silt, no odor, no staining, moist, Slightly fining downwards		
					0.4 @ 162.5'
-165					0.4 @ 166.0'
					0.3 @ 168.0'
-170					

Soil Boring Log
BORING ID: IP-25
Brattleboro, VT

DATE DRILLED: 12/22/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21

COMMENT: End of boring, target depth reached.



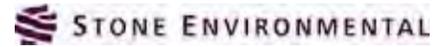
DEPTH (feet)	SAMPLE INTERVAL	Recovery	SOIL DESCRIPTION / LITHOLOGY	PID (ppm v/v)
0			Brown, SAND, fine grained, well sorted, little silt, no odor, no staining, dry, homogeneous	0.1 @ 1.0'
				0.2 @ 2.0'
				0.5 @ 3.0'
-5			Brown, SAND, fine to medium grained, poorly sorted, trace coarse sand, trace rock fragments, no odor, no staining, dry	1.2 @ 6.0'
				0.7 @ 7.0'
				0.8 @ 8.5'
-10			Brown, gravelly SAND, fine grained, poorly sorted, some fine to coarse gravel, trace silt, no odor, no staining, dry	0.6 @ 11.0'
				1.9 @ 12.5'
				1.1 @ 14.0'
-15			Brown, SAND, fine to medium grained, poorly sorted, little coarse sand, trace fine gravel, no odor, no staining, dry, homogeneous	0.9 @ 16.0'
				1.1 @ 17.5'
				2.1 @ 19.0'
-20			Brown, SAND, fine to medium grained, poorly sorted, little coarse sand, trace fine gravel, no odor, no staining, dry, homogeneous	0.8 @ 21.0'
				1.2 @ 22.5'
				0.2 @ 24.0'
-25			Brown, SAND, fine to medium grained, poorly sorted, little coarse sand, trace fine gravel, no odor, no staining, dry, homogeneous	0.2 @ 26.0'
				0.7 @ 27.5'
				0.8 @ 29.0'
-30				

Soil Boring Log
BORING ID: IP-25
Brattleboro, VT

DATE DRILLED: 12/22/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21

COMMENT: End of boring, target depth reached.



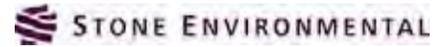
DEPTH (feet)	SAMPLE INTERVAL	Recovery	SOIL DESCRIPTION / LITHOLOGY	PID (ppm v/v)
-30				
				0.7 @ 32.0'
-35				0.7 @ 35.0'
				0.6 @ 38.0'
-40			Brown, SAND, fine to medium grained, poorly sorted, little coarse sand, trace fine gravel, no odor, no staining, moist, homogeneous	2.1 @ 41.0'
		4.7 @ 42.0'		
		7.2 @ 43.0'		
-45				3.3 @ 47.5'
-50			Brown, gravelly SAND, fine to medium grained, poorly sorted, some fine gravel, little coarse sand, hydrocarbon odor, no staining, moist	52.0 @ 51.0'
				68.0 @ 52.0'
				36.0 @ 54.0'
-55			Brown, gravelly SAND, fine to medium grained, poorly sorted, some fine gravel, little coarse sand, no odor, no staining, moist	2.8 @ 57.0'
				3.0 @ 58.5'
				101
-60				

Soil Boring Log
BORING ID: IP-25
Brattleboro, VT

DATE DRILLED: 12/22/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21

COMMENT: End of boring, target depth reached.



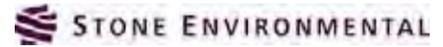
DEPTH (feet)	SAMPLE INTERVAL	Recovery	SOIL DESCRIPTION / LITHOLOGY	PID (ppm v/v)
-60				
				2.2 @62.0'
				2.7 @64.0'
-65				1.1 @66.0'
				0.9 @68.0'
-70			Brown, SAND, fine to medium grained, well sorted, no odor, no staining, moist, homogeneous	
				1.2 @72.0'
				1.0 @74.0'
-75				0.9 @76.0'
				0.7 @78.0'
-80				

Soil Boring Log
BORING ID: IP-26
Brattleboro, VT

DATE DRILLED: 12/23/2020 & 12/30/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay & D. Curran
 LOG PREPARED BY: DTC 01/07/21

COMMENT: End of boring, target depth reached.



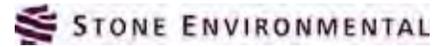
DEPTH (feet)	SAMPLE INTERVAL	Recovery	SOIL DESCRIPTION / LITHOLOGY	PID (ppm v/v)
0			Brown, gravelly SAND, medium to coarse grained, subrounded, poorly sorted, and fine to coarse gravel, some fine sand, no odor, no staining, dry, Fill	
			Brown, SILT, medium to coarse grained, subrounded, no odor, no staining, moist, homogeneous	
-5			Brown, SAND, fine grained, well sorted, no odor, no staining, dry, homogeneous	0.1 @ 4.0'
				0.2 @ 7.0'
				0.1 @ 8.0'
				0.6 @ 9.0'
-10			Brown, silty SAND, fine grained, well sorted, and silt, no odor, no staining, moist, homogeneous	0.8 @ 11.0'
				0.7 @ 12.5'
				1.2 @ 14.0'
-15			Brown, SAND, fine grained, well sorted, trace coarse sand, trace silt, no odor, no staining, moist, homogeneous	1.4 @ 16.0'
				1.6 @ 17.5'
				1.6 @ 19.0'
-20				2.0 @ 22.0'
				0.4 @ 24.0'
-25				0.6 @ 26.0'
				0.3 @ 27.5'
				0.5 @ 29.0'
-30				

Soil Boring Log
BORING ID: IP-26
Brattleboro, VT

DATE DRILLED: 12/23/2020 & 12/30/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay & D. Curran
 LOG PREPARED BY: DTC 01/07/21

COMMENT: End of boring, target depth reached.



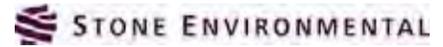
DEPTH (feet)	SAMPLE INTERVAL	Recovery	SOIL DESCRIPTION / LITHOLOGY	PID (ppm v/v)
-30			Brown, SAND, fine to medium grained, well sorted, little coarse sand, trace silt, no odor, no staining, moist, homogeneous	2.6 @ 31.0'
				1.7 @ 32.5'
				1.3 @ 34.0'
-35				1.1 @ 36.0'
				0.9 @ 37.5'
			1.1 @ 39.0'	
-40			0.9 @ 41.0'	
			0.4 @ 42.5'	
			0.7 @ 44.0'	
-45			Brown, SAND, medium to coarse grained, poorly sorted, some fine sand, trace silt, no odor, no staining, moist, homogeneous	0.8 @ 46.0'
			0.5 @ 48.0'	
-50			0.0 @ 51.0'	
			0.0 @ 52.0'	
			Brown, SAND, fine to medium grained, well sorted, little coarse sand, trace silt, no odor, no staining, moist, homogeneous	0.1 @ 53.0'
-55			Brown, SAND, medium to coarse grained, poorly sorted, some fine sand, trace silt, no odor, no staining, moist, homogeneous	0.0 @ 56.0'
			0.0 @ 57.0'	
			0.1 @ 58.0'	
			104	
-60				

Soil Boring Log
BORING ID: IP-26
Brattleboro, VT

DATE DRILLED: 12/23/2020 & 12/30/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay & D. Curran
 LOG PREPARED BY: DTC 01/07/21

COMMENT: End of boring, target depth reached.



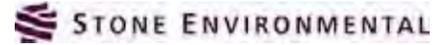
DEPTH (feet)	SAMPLE INTERVAL	Recovery	SOIL DESCRIPTION / LITHOLOGY	PID (ppm v/v)
-60			Brown, SAND, fine to medium grained, well sorted, little coarse sand, trace silt, no odor, no staining, moist, homogeneous	0.9 @61.0'
			Gray to brown, SAND, coarse grained, well sorted, little fine sand, no odor, no staining, moist to wet, homogeneous, Becoming wet from 62-63'	3.4 @62.0' 4.1 @63.0'
				2.0 @64.0'
-65			Brown, SAND, fine to medium grained, well sorted, trace silt, no odor, no staining, moist, homogeneous	0.1 @66.0' 0.2 @67.0' 0.1 @68.0'
-70			Brown, silty SAND, fine grained, well sorted, no odor, no staining, moist, homogeneous	0.1 @71.0' 0.2 @72.0' 0.7 @73.0'
			Brown, SAND, medium to coarse grained, poorly sorted, some fine sand, trace silt, no odor, no staining, moist, homogeneous	0.5 @74.0'
-75			Brown, silty SAND, fine grained, well sorted, no odor, no staining, moist, homogeneous	0.1 @76.0' 0.1 @77.0'
-80				

Soil Boring Log
BORING ID: IP-27
Brattleboro, VT

DATE DRILLED: 12/30/2020 & 12/31/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: D. Curran
 LOG PREPARED BY: DTC 01/13/21

COMMENT: End of boring, target depth reached. Boring grouted during retraction.



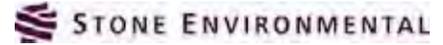
DEPTH (feet)	SAMPLE INTERVAL	Recovery	SOIL DESCRIPTION / LITHOLOGY	PID (ppm v/v)
0			Brown, gravelly SAND, fine to medium grained, subrounded, poorly sorted, no odor, no staining, moist. Poorly sorted silt, sand and gravel	0.1 @ 1.0'
			Brown, silty SAND, fine grained, well sorted, no odor, no staining, moist, homogeneous	0.1 @ 2.0' 0.1 @ 3.0'
			Brown, SAND, fine grained, well sorted, little silt, no odor, no staining, moist, homogeneous	0.1 @ 4.0' 0.1 @ 5.0' 0.1 @ 6.0' 0.1 @ 7.0' 0.0 @ 8.0' 0.0 @ 9.0'
-5				
			Brown, sandy GRAVEL, medium to coarse grained, subangular, poorly sorted, and cobbles, no odor, no staining, dry	0.6 @ 11.0' 1.9 @ 12.0'
			Brown, SAND, medium to coarse grained, well sorted, little gravel, no odor, no staining, dry	0.6 @ 13.0' 0.3 @ 14.0'
-10				
			Brown, SAND, medium to coarse grained, well sorted, little fine sand, trace silt, no odor, no staining, dry. Fining downward slightly to medium and little fine sand	0.3 @ 16.0' 0.3 @ 17.0' 0.6 @ 18.0' 0.3 @ 19.0'
-15				
			Brown, gravelly SAND, fine to medium grained, subangular, poorly sorted, little coarse sand, trace silt, no odor, no staining, moist	14.3 @ 21.0' 0.5 @ 22.0'
			Brown, SAND, medium to coarse grained, well sorted, little gravel, no odor, no staining, moist	0.2 @ 23.0'
-20				
			Brown, gravelly SAND, fine to medium grained, subrounded, poorly sorted, little coarse sand, no odor, no staining, moist	0.2 @ 26.0'
-25				
			Brown, SAND, medium to coarse grained, well sorted, no odor, no staining, moist. Coarsening downward	0.6 @ 27.0' 0.5 @ 28.0' 0.5 @ 29.0'
-30				

Soil Boring Log
BORING ID: IP-27
Brattleboro, VT

DATE DRILLED: 12/30/2020 & 12/31/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: D. Curran
 LOG PREPARED BY: DTC 01/13/21

COMMENT: End of boring, target depth reached. Boring grouted during retraction.



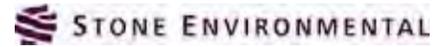
DEPTH (feet)	SAMPLE INTERVAL	Recovery	SOIL DESCRIPTION / LITHOLOGY	PID (ppm v/v)
-30			Brown, SAND, medium to coarse grained, well sorted, little gravel, no odor, no staining, moist. Pocket of very compact grey fine sand, dry, from 32.3-32.6'	0.4 @ 31.0'
			Brown, SAND, medium to coarse grained, poorly sorted, with gravel, no odor, no staining, moist	22.0 @ 32.5' 1.5 @ 33.0' 1.2 @ 34.0'
-35			Brown, SAND, medium to coarse grained, well sorted, trace gravel, no odor, no staining, moist, homogeneous	0.1 @ 36.0'
			Brown, SAND, medium grained, well sorted, little fine sand, little gravel, no odor, no staining, moist, homogeneous	0.1 @ 37.0' 0.2 @ 38.0' 0.2 @ 39.0'
-40			Brown, SAND, medium grained, well sorted, little fine sand, little gravel, no odor, no staining, moist, homogeneous. Hardened dry pieces of NAPL beginning to become mixed at 41'	4.7 @ 41.0'
			Dark brown to black, gravelly SAND, medium to coarse grained, with gravel, hydrocarbon odor, hydrocarbon staining, dry. Dark brown to black, medium to coarse, sand and gravel with hardened black NAPL mixed throughout	0.7 @ 42.0' 1.0 @ 43.0' 1.0 @ 44.0'
-45			Black, SAND, fine to medium grained, little coarse sand, little gravel, hydrocarbon odor, hydrocarbon staining, moist. Black, fine to medium, sand with little coarse sand and gravel. NAPL present	1.2 @ 45.0' 10.8 @ 46.0' 23.7 @ 47.0' 19.8 @ 48.0' 14.9 @ 49.0'
-50			Dark brown to black, gravelly SAND, medium to coarse grained, with gravel, hydrocarbon odor, hydrocarbon staining, dry. Dark brown to black, medium to coarse, sand and gravel with hardened black NAPL mixed throughout	27.0 @ 51.0' 27.1 @ 52.0'
-55			Dark black, SAND, fine to medium grained, little coarse sand, hydrocarbon odor, hydrocarbon staining, dry to moist. Most NAPL observed in upper 55'	72.9 @ 56.0' 70.9 @ 57.0'
			Black, gravelly SAND, coarse grained, little fine to medium sand, hydrocarbon odor, hydrocarbon staining, moist. Becoming less NAPL stained and decreased odor to prior interval	109.4 @ 58.0' 120.4 @ 59.0'
-60				

Soil Boring Log
BORING ID: IP-27
Brattleboro, VT

DATE DRILLED: 12/30/2020 & 12/31/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: D. Curran
 LOG PREPARED BY: DTC 01/13/21

COMMENT: End of boring, target depth reached. Boring grouted during retraction.



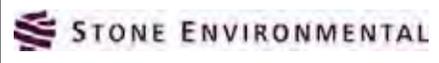
DEPTH (feet)	SAMPLE INTERVAL	Recovery	SOIL DESCRIPTION / LITHOLOGY	PID (ppm v/v)
-60			Dark brown to black, SAND, fine grained, well sorted, some medium to coarse sand, hydrocarbon odor, hydrocarbon staining, moist. Similar NAPL to prior interval	41.0 @61.0' 69.0 @62.0' 112.0 @63.0'
-65			Black, SAND, medium to coarse grained, well sorted, trace fine sand, hydrocarbon odor, hydrocarbon staining, moist. Slight increase in NAPL to prior interval	68.2 @64.0' 97.4 @65.0' 62.7 @66.0' 78.3 @67.0' 110.2 @68.0'
-70			Dark black, SAND, fine to medium grained, trace medium to coarse sand, hydrocarbon odor, hydrocarbon staining, moist, compact. Increased NAPL to prior interval	104.1 @69.0'
			Brown to black, SAND, medium to coarse grained, poorly sorted, little gravel, hydrocarbon odor, hydrocarbon staining, moist. Less saturated with NAPL to prior interval	124.5 @70.0' 73.6 @71.0'
			Dark black, SAND, fine to medium grained, trace medium to coarse sand, hydrocarbon odor, hydrocarbon staining, moist, compact. Increased NAPL to prior interval	67.8 @72.0' 115.0 @73.0'
-75			Dark brown to black, SAND, fine to medium grained, little coarse sand, hydrocarbon odor, hydrocarbon staining, moist. Less NAPL to prior interval	93.6 @74.0'
			Brown, SAND, medium to coarse grained, well sorted, no odor, no staining, moist, homogeneous. No evidence of NAPL	7.0 @76.0' 3.0 @77.0' 0.1 @78.0'
-80				

Soil Boring Log
BORING NO. IP-28
Brattleboro, VT

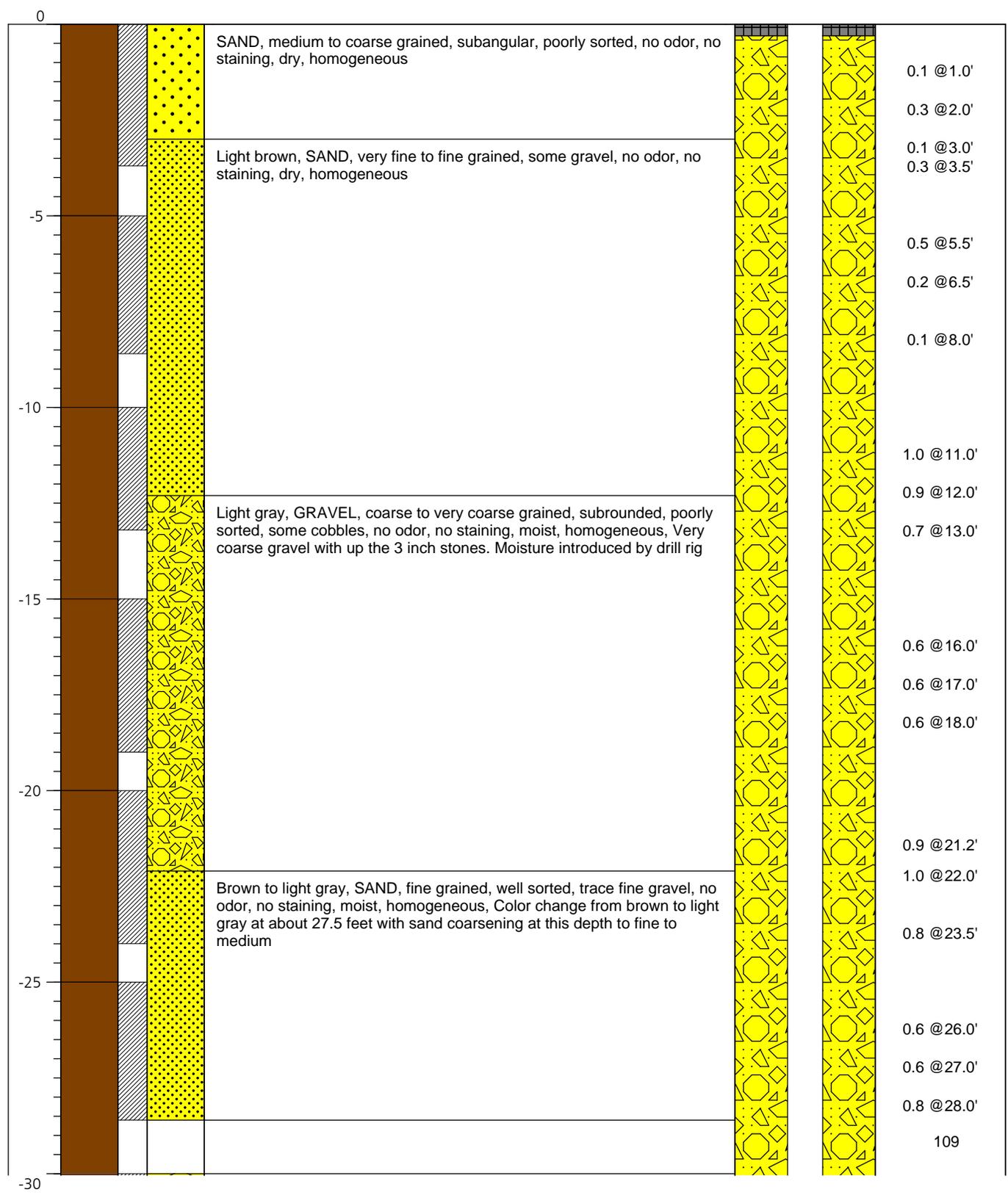
DATE DRILLED: 12/21/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
--------------	-----------------	----------	------------------------------	-------------------	---------------

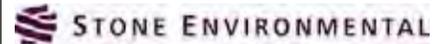


Soil Boring Log
BORING NO. IP-28
Brattleboro, VT

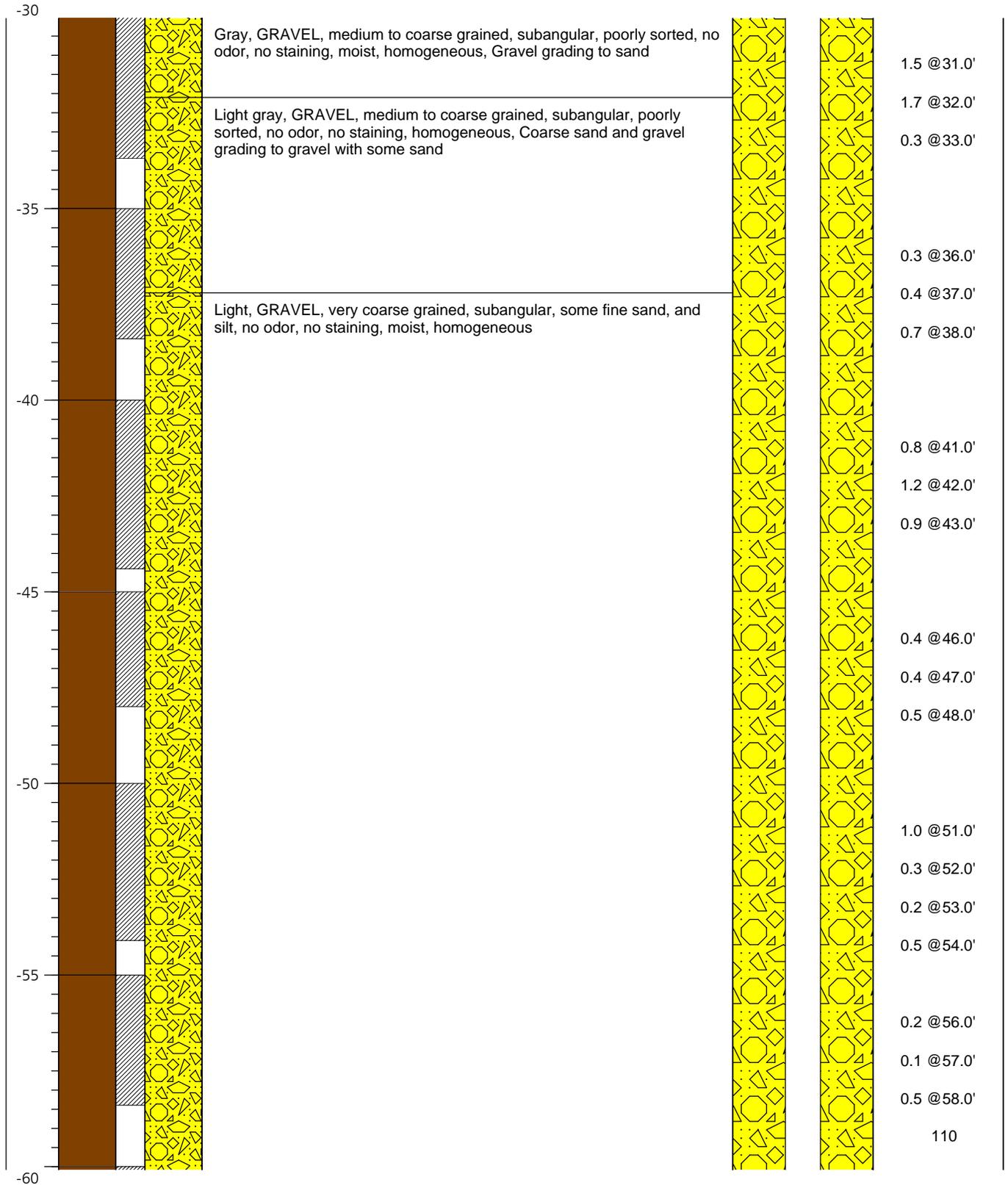
DATE DRILLED: 12/21/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
--------------	-----------------	----------	------------------------------	-------------------	---------------

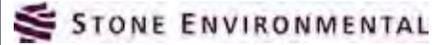


Soil Boring Log
BORING NO. IP-28
Brattleboro, VT

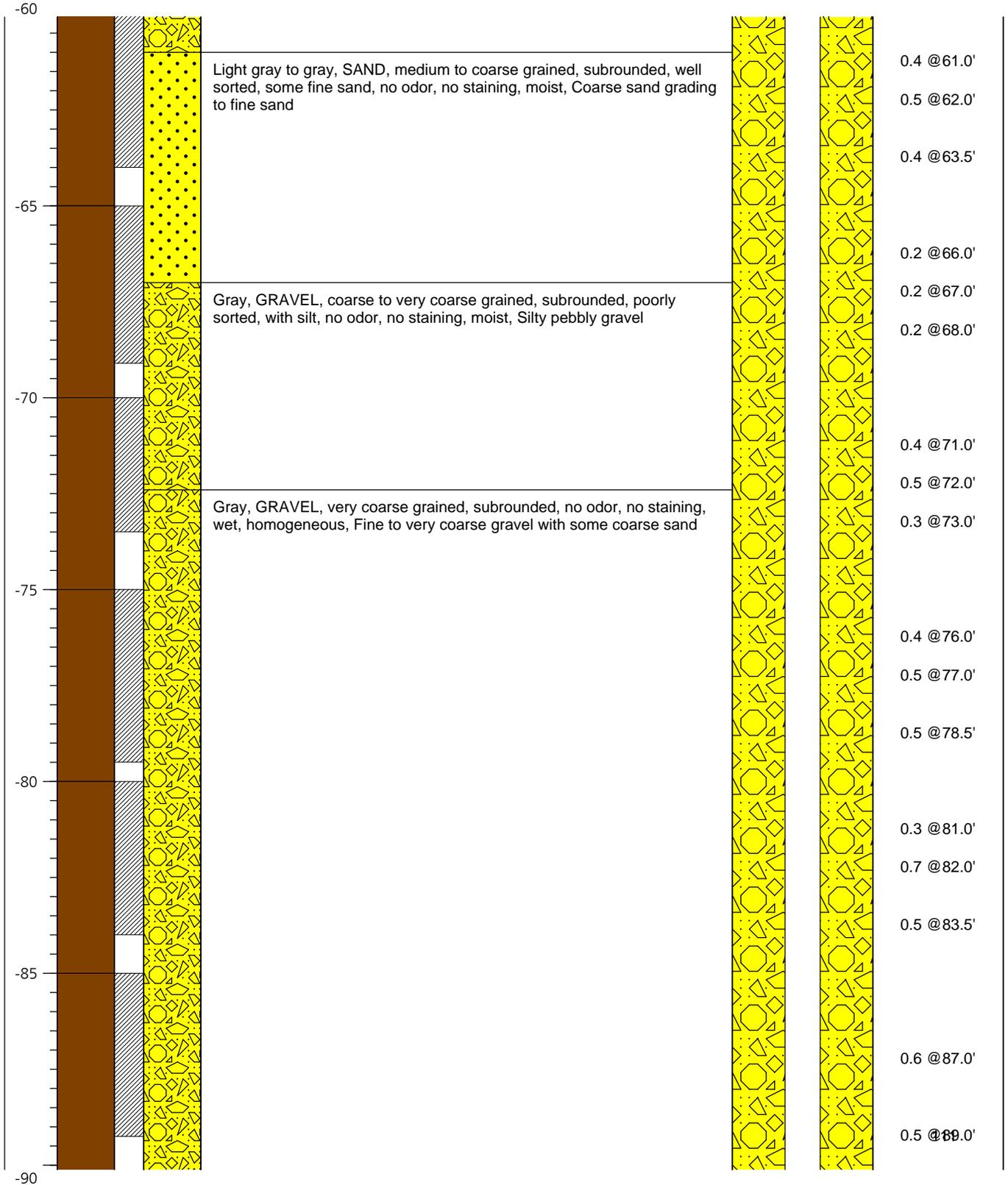
DATE DRILLED: 12/21/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
--------------	-----------------	----------	------------------------------	-------------------	---------------

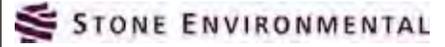


Soil Boring Log
BORING NO. IP-28
Brattleboro, VT

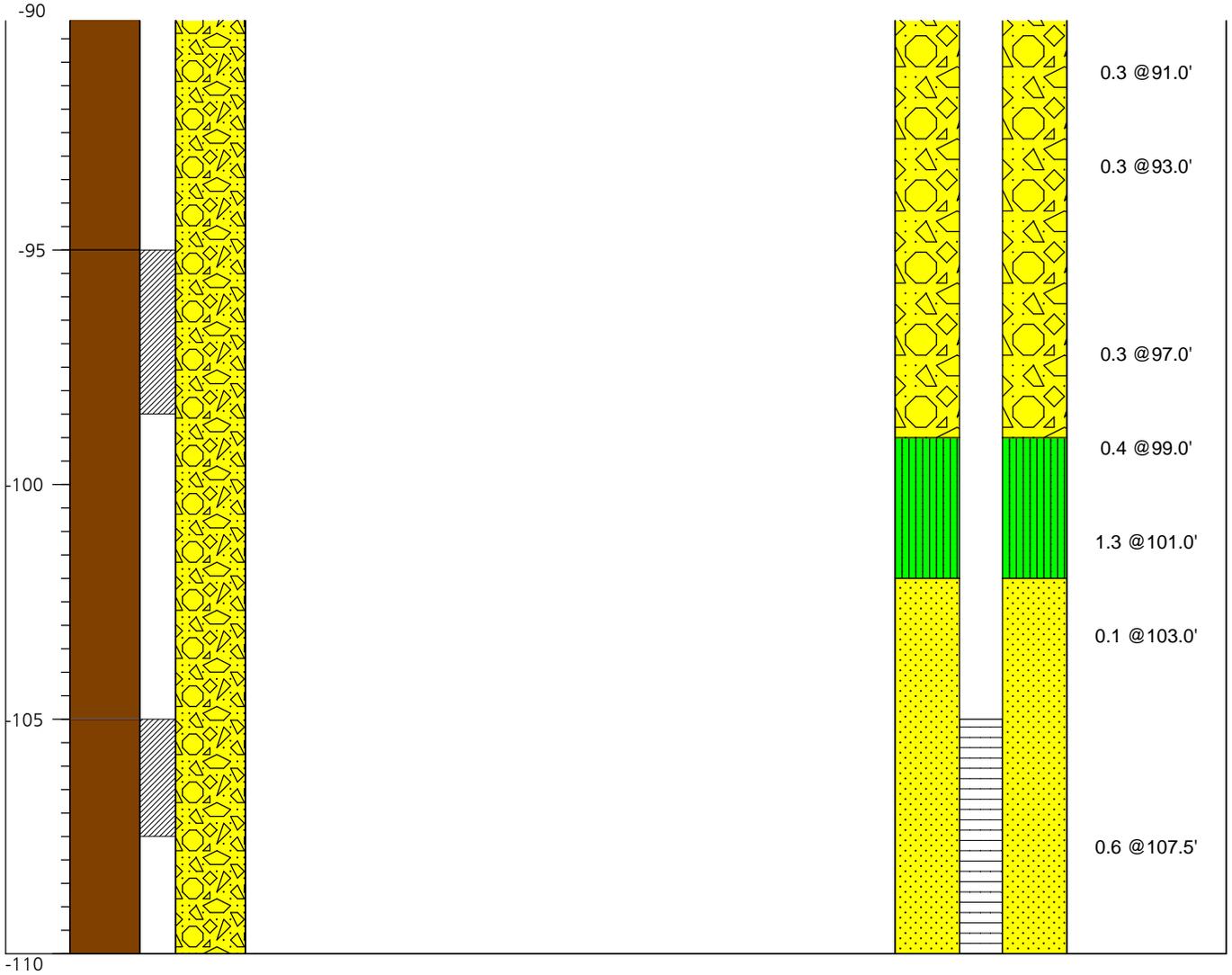
DATE DRILLED: 12/21/2020
 DRILLING CONTRACTOR: Cascade Drilling
 DRILLER: Frank Gardella
 DRILLING METHOD: Sonic

SOURCE: Field boring log
 LOGGED BY: S. Rathay
 LOG PREPARED BY: DTC 01/13/21
 COMMENT:

Well Construction Details
 Well Screen: 105-110' Well Riser: 0-105' Sand Pack: 102-110' Bentonite: 99-102' Backfill: 0-99'
 Completed with road box.



DEPTH (Feet)	Sample Interval	RECOVERY	LITHOLOGY / SOIL DESCRIPTION	WELL CONSTRUCTION	PID (ppm v/v)
-----------------	--------------------	----------	------------------------------	----------------------	------------------



Appendix D: Analytical Data Summary Tables

Table 1
Concentrations of Semi-Volatile Organic Compounds in Soil

SampleID		VSS - Resident	VSS - Non-Resident	EPA RSL - Residential	EPA RSL - Industrial	1P25-52'		1P25-52'-FD		IP-26-63.0		IP-27-59.0	
Sample Date	CAS#	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	12/22/2020	Q	12/22/2020	Q	12/30/2020	Q	12/30/2020	Q
1,2,4,5-Tetrachlorobenzene	95-94-3	NE	NE	23	350	0.36	U	0.38	U	0.37	U	18	U
1,2,4-Trichlorobenzene	120-82-1	NE	NE	24	110	0.36	U	0.38	U	0.37	U	18	U
1,2-Dichlorobenzene	95-50-1	NE	NE	1800	9300	0.36	U	0.38	U	0.37	U	18	U
1,2-Diphenylhydrazine/Azobenzene	122-66-7	NE	NE	0.68	2.9	0.36	U	0.38	U	0.37	U	18	U
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	NE	0.36	U	0.38	U	0.37	U	18	U
1,4-Dichlorobenzene	106-46-7	NE	NE	2.6	11	0.36	U	0.38	U	0.37	U	18	U
1-Methylnaphthalene	90-12-0	NE	NE	18	73	0.18	U	0.19	U	0.18	U	44	
2,4,5-Trichlorophenol	95-95-4	NE	NE	6300	82000	0.36	U	0.38	U	0.37	U	18	U
2,4,6-Trichlorophenol	88-06-2	NE	NE	49	210	0.36	U	0.38	U	0.37	U	18	U
2,4-Dichlorophenol	120-83-2	NE	NE	190	2500	0.36	U	0.38	U	0.37	U	18	U
2,4-Dimethylphenol	105-67-9	NE	NE	1300	16000	0.36	U	0.38	U	0.37	U	18	U
2,4-Dinitrophenol	51-28-5	NE	NE	130	1600	0.70	U	0.73	U	0.72	U	34	U
2,4-Dinitrotoluene	121-14-2	NE	NE	1.7	7.4	0.36	U	0.38	U	0.37	U	18	U
2,6-Dinitrotoluene	606-20-2	NE	NE	0.36	1.5	0.36	U	0.38	U	0.37	U	18	U
2-Chloronaphthalene	91-58-7	NE	NE	4800	60000	0.36	U	0.38	U	0.37	U	18	U
2-Chlorophenol	95-57-8	NE	NE	390	5800	0.36	U	0.38	U	0.37	U	18	U
2-Methylnaphthalene	91-57-6	NE	NE	240	3000	0.18	U	0.19	U	0.18	U	45	
2-Methylphenol	95-48-7	NE	NE	3200	41000	0.36	U	0.38	U	0.37	U	18	U
2-Nitroaniline	88-74-4	NE	NE	630	8000	0.36	U	0.38	U	0.37	U	18	U
2-Nitrophenol	88-75-5	NE	NE	NE	NE	0.36	U	0.38	U	0.37	U	18	U
3,3-Dichlorobenzidine	91-94-1	NE	NE	1.2	5.1	0.18	U	0.19	U	0.18	U	8.8	U
3/4-Methylphenol	108-39-4/106-44-5	NE	NE	NE	NE	0.36	U	0.38	U	0.37	U	18	U
3-Nitroaniline	99-09-2	NE	NE	NE	NE	0.36	U	0.38	U	0.37	U	18	U
4,6-Dinitro-2-methylphenol	534-52-1	NE	NE	5.1	66	0.36	U	0.38	U	0.37	U	18	U
4-Bromophenylphenylether	101-55-3	NE	NE	NE	NE	0.36	U	0.38	U	0.37	U	18	U
4-Chloro-3-methylphenol	59-50-7	NE	NE	6300	82000	0.70	U	0.73	U	0.72	U	34	U
4-Chloroaniline	106-47-8	NE	NE	2.7	11	0.70	U	0.73	U	0.72	U	34	U
4-Chlorophenylphenylether	7005-72-3	NE	NE	NE	NE	0.36	U	0.38	U	0.37	U	18	U
4-Nitroaniline	100-01-6	NE	NE	27	110	0.36	U	0.38	U	0.37	U	18	U
4-Nitrophenol	100-02-7	NE	NE	NE	NE	0.70	U	0.73	U	0.72	U	34	U
Acenaphthene	83-32-9	NE	NE	3600	45000	0.18	U	0.19	U	0.18	U	15	
Acenaphthylene	208-96-8	NE	NE	NE	NE	0.18	U	0.19	U	0.18	U	8.8	U
Acetophenone	98-86-2	NE	NE	7800	120000	0.36	U	0.38	U	0.37	U	18	U
Aniline	62-53-3	NE	NE	95	400	0.36	U	0.38	U	0.37	U	18	U
Anthracene	120-12-7	NE	NE	18000	230000	0.18	U	0.19	U	0.18	U	8.8	U
B(a)P-TEQ	50-32-8	0.07	1.54	0.11	2.1	0.208	U	0.220	U	0.208	U	10.7	
Benzdine	92-87-5	NE	NE	0.00053	0.01	0.70	U	0.73	U	0.72	U	34	U
Benzo(a)anthracene	56-55-3	NE	NE	1.1	21	0.18	U	0.19	U	0.18	U	9.6	
Benzo(a)pyrene	50-32-8	0.07	1.54	0.11	2.1	0.18	U	0.19	U	0.18	U	8.8	U
Benzo(b)fluoranthene	205-99-2	NE	NE	1.1	21	0.18	U	0.19	U	0.18	U	8.8	U
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE	0.18	U	0.19	U	0.18	U	8.8	U
Benzo(k)fluoranthene	207-08-9	NE	NE	11	210	0.18	U	0.19	U	0.18	U	8.8	U
Benzoic Acid	65-85-0	NE	NE	250000	3300000	1.1	U	1.1	U	1.1	U	52	U
Bis(2-chloroethoxy)methane	111-91-1	NE	NE	190	2500	0.36	U	0.38	U	0.37	U	18	U
Bis(2-chloroethyl)ether	111-44-4	NE	NE	0.23	1	0.36	U	0.38	U	0.37	U	18	U

Table 1
Concentrations of Semi-Volatile Organic Compounds in Soil

SampleID		VSS - Resident	VSS - Non-Resident	EPA RSL - Residential	EPA RSL - Industrial	1P25-52'		1P25-52'-FD		IP-26-63.0		IP-27-59.0	
Sample Date	CAS#	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	12/22/2020	Q	12/22/2020	Q	12/30/2020	Q	12/30/2020	Q
Bis(2-chloroisopropyl)ether	108-60-1	2804	36274	3100	47000	0.36 U		0.38 U		0.37 U		18 U	
Bis(2-Ethylhexyl)phthalate	117-81-7	20	120	39	160	0.36 U		0.38 U		0.37 U		18 U	
Butylbenzylphthalate	85-68-7	NE	NE	290	1200	0.36 U		0.38 U		0.37 U		18 U	
Carbazole	86-74-8	NE	NE	NE	NE	0.18 U		0.19 U		0.18 U		8.8 U	
Chrysene	218-01-9	NE	NE	110	2100	0.18 U		0.19 U		0.18 U		8.8 U	
Dibenz(a,h)anthracene	53-70-3	NE	NE	0.11	2.1	0.18 U		0.19 U		0.18 U		8.8 U	
Dibenzofuran	132-64-9	NE	NE	73	1000	0.36 U		0.38 U		0.37 U		18 U	
Diethylphthalate	84-66-2	NE	NE	51000	660000	0.36 U		0.38 U		0.37 U		18 U	
Dimethylphthalate	131-11-3	NE	NE	NE	NE	0.36 U		0.38 U		0.37 U		18 U	
Di-n-butylphthalate	84-74-2	NE	NE	6300	82000	0.36 U		0.38 U		0.37 U		18 U	
Di-n-octylphthalate	117-84-0	NE	NE	630	8200	0.36 U		0.38 U		0.37 U		18 U	
Fluoranthene	206-44-0	2301	26371	2400	30000	0.18 U		0.19 U		0.18 U		8.8 U	
Fluorene	86-73-7	2301	26371	2400	30000	0.18 U		0.19 U		0.18 U		13	
Hexachlorobenzene	118-74-1	0.13	0.69	0.21	0.96	0.36 U		0.38 U		0.37 U		18 U	
Hexachlorobutadiene	87-68-3	NE	NE	1.2	5.3	0.36 U		0.38 U		0.37 U		18 U	
Hexachlorocyclopentadiene	77-47-4	NE	NE	1.8	7.5	0.36 U		0.38 U		0.37 U		18 U	
Hexachloroethane	67-72-1	NE	NE	1.8	8	0.36 U		0.38 U		0.37 U		18 U	
Indeno(1,2,3-cd)pyrene	193-39-5	NE	NE	1.1	21	0.18 U		0.19 U		0.18 U		8.8 U	
Isophorone	78-59-1	NE	NE	570	2400	0.36 U		0.38 U		0.37 U		18 U	
Naphthalene	91-20-3	2.7	16	2	8.6	0.18 U		0.19 U		0.18 U		11	
Nitrobenzene	98-95-3	NE	NE	5.1	22	0.36 U		0.38 U		0.37 U		18 U	
N-Nitrosodimethylamine	62-75-9	NE	NE	0.002	0.034	0.36 U		0.38 U		0.37 U		18 U	
N-Nitrosodi-n-propylamine	621-64-7	NE	NE	0.078	0.33	0.36 U		0.38 U		0.37 U		18 U	
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	NE	NE	110	470	0.36 U		0.38 U		0.37 U		18 U	
Pentachloronitrobenzene	82-68-8	NE	NE	2.7	13	0.36 U		0.38 U		0.37 U		18 U	
Pentachlorophenol	87-86-5	0.48	2.9	1	4	0.36 U		0.38 U		0.37 U		18 U	
Phenanthrene	85-01-8	NE	NE	NE	NE	0.18 U		0.19 U		0.18 U		15	
Phenol	108-95-2	NE	NE	19000	250000	0.36 U		0.38 U		0.37 U		18 U	
Pyrene	129-00-0	NE	NE	1800	23000	0.18 U		0.19 U		0.18 U		30	
Pyridine	110-86-1	NE	NE	78	1200	0.36 U		0.38 U		0.37 U		18 U	

Key:

Vermont Soil Standards from Investigation and Remediation of Contaminated Properties Rule, July 2019

RSL - US Environmental Protection Agency, Regional Screening Levels for Residential (Res) and Industrial (Ind) settings, November 2020

mg/kg - milligrams per kilogram (parts per million)

Bold results indicate detections of the analyte

Shaded results indicate an exceedence of the enforcement standard(s)

NE - screening level not established

Q - laboratory result qualifier

U - Analyte not detected; limit of quantitation listed

Table 2
Concentrations of Extractable Petroleum Hydrocarbons in Soil

SampleID	CAS#	VSS - Resident	VSS - Non-Resident	EPA RSL - Residential	EPA RSL - Industrial	1P25-52'		1P25-52'-FD		IP-26-63.0		IP-27-59.0	
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	12/22/2020	Q	12/22/2020	Q	12/30/2020	Q	12/30/2020	Q
2-Methylnaphthalene	91-57-6	NE	NE	240	3000	0.11	U	0.11	U	0.11	U		31
Acenaphthene	83-32-9	NE	NE	3600	45000	0.11	U	0.11	U	0.11	U		9.5
Acenaphthylene	208-96-8	NE	NE	NE	NE	0.11	U	0.11	U	0.11	U		6.0
Anthracene	120-12-7	NE	NE	18000	230000	0.11	U	0.11	U	0.11	U		13
B(a)P-TEQ	50-32-8	0.07	1.54	0.11	2.1	0.127	U	0.127	U	0.127	U		1.16 U
Benzo(a)anthracene	56-55-3	NE	NE	1.1	21	0.11	U	0.11	U	0.11	U		1.0 U
Benzo(a)pyrene	50-32-8	0.07	1.54	0.11	2.1	0.11	U	0.11	U	0.11	U		1.0 U
Benzo(b)fluoranthene	205-99-2	NE	NE	1.1	21	0.11	U	0.11	U	0.11	U		1.0 U
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE	0.11	U	0.11	U	0.11	U		1.0 U
Benzo(k)fluoranthene	207-08-9	NE	NE	11	210	0.11	U	0.11	U	0.11	U		1.0 U
C11-C22 Aromatics	C11-C22AROM	NE	NE	NE	NE	11	U	11	U	11	U		13000
C19-C36 Aliphatics	C19-C36ALIP	NE	NE	NE	NE	11	U	11	U	11	U		9700
C9-C18 Aliphatics	C9-C18ALIP	NE	NE	NE	NE	11	U	11	U	11	U		4900
Chrysene	218-01-9	NE	NE	110	2100	0.11	U	0.11	U	0.11	U		1.0 U
Dibenz(a,h)anthracene	53-70-3	NE	NE	0.11	2.1	0.11	U	0.11	U	0.11	U		1.0 U
Fluoranthene	206-44-0	2301	26371	2400	30000	0.11	U	0.11	U	0.11	U		12
Fluorene	86-73-7	2301	26371	2400	30000	0.11	U	0.11	U	0.11	U		20
Indeno(1,2,3-cd)pyrene	193-39-5	NE	NE	1.1	21	0.11	U	0.11	U	0.11	U		1.0 U
Naphthalene	91-20-3	2.7	16	2	8.6	0.11	U	0.11	U	0.11	U		18
Phenanthrene	85-01-8	NE	NE	NE	NE	0.11	U	0.11	U	0.11	U		18
Pyrene	129-00-0	NE	NE	1800	23000	0.11	U	0.11	U	0.11	U		12
Unadjusted C11-C22 Aromatics	UC11-C22AROM	NE	NE	NE	NE	11	U	11	U	11	U		13000

Key:

Vermont Soil Standards from Investigation and Remediation of Contaminated Properties Rule, July 2019

RSL - US Environmental Protection Agency, Regional Screening Levels for Residential (Res) and Industrial (Ind) settings, November 2020

mg/kg - milligrams per kilogram (parts per million)

Bold results indicate detections of the analyte

Shaded results indicate an exceedence of the enforcement standard(s)

NE - screening level not established

Q - laboratory result qualifier

U - Analyte not detected; limit of quantitation listed

Table 3
Concentrations of Volatile Organic Compounds in Soil

SampleID	VSS - Resident	VSS - Non-Resident	EPA RSL - Residential	EPA RSL - Industrial	1P25-52' 12/22/2020	1P25-52'-FD 12/22/2020	IP-26-63.0 12/30/2020	IP-27-59.0 12/30/2020	trip blank 12/22/2020	RPD	
Sample Date	CAS#	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Q	Q	Q	Q	Q	
1,1,1,2-Tetrachloroethane	630-20-6	1.3	8	2	8.8	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,1,1-Trichloroethane	71-55-6	NE	NE	8100	36000	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,1,2,2-Tetrachloroethane	79-34-5	NE	NE	0.6	2.7	0.0055 U	0.0075 U	0.011 U	0.097 U	0.0010 U	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	NE	NE	6700	28000	0.0055 U	0.0075 U	0.011 U	0.19 U	0.0100 U	--
1,1,2-Trichloroethane	79-00-5	NE	NE	1.1	5	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,1-Dichloroethane	75-34-3	2.1	13	3.6	16	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,1-Dichloroethylene	75-35-4	NE	NE	230	1000	0.0022 U	0.0030 U	0.0043 U	0.19 U	0.0040 U	--
1,1-Dichloropropane	563-58-6	NE	NE	NE	NE	0.0022 U	0.0030 U	0.0021 U	0.39 U	0.0040 U	--
1,2,3-Trichlorobenzene	87-61-6	NE	NE	63	930	0.0011 U	0.0015 U	0.0021 U	0.97 U	0.0020 U	--
1,2,3-Trichloropropane	96-18-4	0.00311	0.07	0.0051	0.11	0.0022 U	0.0030 U	0.0021 U	0.39 U	0.0040 U	--
1,2,3-Trimethylbenzene	526-73-8	144	177	340	2000	NS	NS	0.021 U	9.1	NS	--
1,2,4-Trichlorobenzene	120-82-1	NE	NE	24	110	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,2,4-Trimethylbenzene	95-63-6	144	177	300	1800	0.0011 U	0.0015 U	0.0021 U	12	0.0020 U	--
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.01	0.06	0.0053	0.064	0.0011 U	0.0015 U	0.0021 U	0.97 U	0.0020 U	--
1,2-Dibromomethane (EDB)	106-93-4	0.02	0.14	0.036	0.16	0.0055 U	0.0075 U	0.011 U	0.097 U	0.0010 U	--
1,2-Dichlorobenzene	95-50-1	NE	NE	1800	9300	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,2-Dichloroethane	107-06-2	0.29	1.7	0.46	2	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,2-Dichloropropane	78-87-5	1.5	9.1	2.5	11	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,3,5-Trichlorobenzene	108-70-3	NE	NE	NE	NE	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,3,5-Trimethylbenzene	108-67-8	144	177	270	1500	0.0011 U	0.0015 U	0.0021 U	5.8	0.0020 U	--
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	NE	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,3-Dichloropropane	142-28-9	NE	NE	1600	23000	0.0055 U	0.0075 U	0.011 U	0.097 U	0.0010 U	--
1,4-Dichlorobenzene	106-46-7	NE	NE	2.6	11	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
1,4-Dioxane	123-91-1	2.8	17	5.3	24	0.055 U	0.075 U	0.11 U	9.7	0.1000 U	--
2,2-Dichloropropane	594-20-7	NE	NE	NE	NE	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
2-Butanone (MEK)	78-93-3	16952	26991	27000	180000	0.017 J	0.016 J	0.043 U	3.9	0.0400 U	6%
2-Chlorotoluene	95-49-8	NE	NE	1600	23000	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
2-Hexanone (MBK)	591-78-6	NE	NE	200	1300	0.011 U	0.006 J	0.021 U	1.9	0.0200 U	--
4-Chlorotoluene	106-43-4	NE	NE	1600	23000	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
4-Methyl-2-pentanone (MIBK)	108-10-1	NE	NE	33000	140000	0.011 U	0.015 U	0.021 U	1.9	0.0200 U	--
Acetone	67-64-1	40609	100028	61000	670000	0.035 J	0.036 J	0.11 U	9.7	0.1000 U	3%
Acrylonitrile	107-13-1	NE	NE	0.25	1.1	0.0033 U	0.0045 U	0.0064 U	0.97 U	0.0060 U	--
Benzene	71-43-2	0.7	4.2	1.2	5.1	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Bromobenzene	108-86-1	NE	NE	290	1800	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Bromochloromethane	74-97-5	NE	NE	597	150	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Bromodichloromethane	75-27-4	NE	NE	0.29	1.3	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Bromoform	75-25-2	NE	NE	19	86	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Bromomethane	74-83-9	NE	NE	6.8	30	0.0055 U	0.0075 U	0.011 U	0.97 U	0.0100 U	--
Carbon Disulfide	75-15-0	608	662	770	3500	0.0033 U	0.0045 U	0.0064 U	0.97 U	0.0060 U	--
Carbon Tetrachloride	56-23-5	0.37	2.2	0.65	2.9	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Chlorobenzene	108-90-7	414	726	280	1300	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Chlorobromomethane	124-48-1	NE	NE	6.3	39	0.0055 U	0.0075 U	0.011 U	0.97 U	0.0010 U	--
Chloroethane	75-00-3	NE	NE	14000	57000	0.011 U	0.015 U	0.021 U	0.39 U	0.0200 U	--
Chloroform	67-66-3	NE	NE	0.32	1.4	0.0022 U	0.0030 U	0.0043 U	0.39 U	0.0040 U	--
Chloromethane	74-87-3	NE	NE	110	460	0.0055 U	0.0075 U	0.011 U	0.39 U	0.0100 U	--
cis-1,2-Dichloroethylene	156-59-2	140	1814	160	2300	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
cis-1,3-Dichloropropene	10061-01-5	NE	NE	NE	NE	0.0055 U	0.0075 U	0.011 U	0.097 U	0.0010 U	--
Dibromomethane	74-95-3	NE	NE	24	99	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Dichlorodifluoromethane (Freon 12)	75-71-8	NE	NE	87	370	0.011 U	0.015 U	0.021 U	0.39 U	0.0200 U	--
Diethyl Ether	60-29-7	NE	NE	16000	230000	0.011 U	0.015 U	0.021 U	0.39 U	0.0200 U	--
Diisopropyl Ether (DIPE)	108-20-3	NE	NE	2200	9400	0.0055 U	0.0075 U	0.011 U	0.097 U	0.0010 U	--
Ethylbenzene	100-41-4	3.7	22	5.8	25	0.0011 U	0.0015 U	0.0021 U	0.93	0.0020 U	--
Hexachlorobutadiene	87-68-3	NE	NE	1.2	5.3	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Isopropylbenzene (Cumene)	98-82-8	256	264	1900	9900	0.0011 U	0.0015 U	0.0021 U	0.2	0.0020 U	--
m+p Xylene	108383/106423	NE	NE	NE	NE	0.0022 U	0.0030 U	0.0043 U	4.3	0.0040 U	--
Methyl Acetate	79-20-9	NE	NE	78000	1200000	0.0011 U	0.0015 U	0.0043 U	1.9	0.0020 U	--
Methyl Cyclohexane	108-87-2	NE	NE	NE	NE	0.0011 U	0.0015 U	0.0021 U	2.5	0.0020 U	--
Methyl tert-Butyl Ether (MTBE)	1634-04-4	649	4464	47	210	0.0022 U	0.0030 U	0.0043 U	0.19 U	0.0040 U	--
Methylene Chloride	75-09-2	NE	NE	57	1000	0.011 U	0.015 U	0.026 J	0.97 U	0.0200 U	--
Naphthalene	91-20-3	2.7	16	2	8.6	0.0053 J	0.0030 U	0.0043 U	12	0.0040 U	--
n-Butylbenzene	104-51-8	3504	51100	3900	58000	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
n-Propylbenzene	103-65-1	253	261	3800	24000	0.0011 U	0.0015 U	0.0021 U	0.5	0.0020 U	--
o-Xylene	95-47-6	NE	NE	650	2800	0.0011 U	0.0015 U	0.0021 U	1.1	0.0020 U	--
p-Isopropyltoluene (p-Cymene)	99-87-6	NE	NE	NE	NE	0.0011 U	0.0015 U	0.0021 U	0.97	0.0020 U	--
sec-Butylbenzene	135-98-8	7009	102200	7800	120000	0.0011 U	0.0015 U	0.0021 U	0.29	0.0020 U	--
Styrene	100-42-5	NE	NE	6000	35000	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
tert-Amyl Methyl Ether (TAME)	994-05-8	NE	NE	NE	NE	0.0055 U	0.0075 U	0.011 U	0.097 U	0.0010 U	--
tert-Butyl Alcohol (TBA)	75-85-0	NE	NE	NE	NE	0.022 U	0.030 U	0.043 U	3.9 U	0.0400 U	--
tert-Butyl Ethyl Ether (TBEE)	637-92-3	NE	NE	NE	NE	0.0055 U	0.0075 U	0.011 U	0.097 U	0.0010 U	--
tert-Butylbenzene	98-06-6	7009	102200	7800	120000	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Tetrachloroethylene	127-18-4	2.4	14	24	100	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Tetrahydrofuran	109-99-9	NE	NE	18000	94000	0.0055 U	0.0075 U	0.011 U	1.9 U	0.0100 U	--
Toluene	108-88-3	706	798	4900	47000	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Total Trimethylbenzene	23551-13-7	NE	NE	NE	NE	0.0011 U	0.0015 U	0.0021 U	26.8	0.0020 U	--
Total Xylene	1330-20-7	252	257	580	2500	0.0022 U	0.0030 U	0.0043 U	5.4	0.0040 U	--
trans-1,2-Dichloroethylene	156-60-5	1402	18137	70	300	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
trans-1,3-Dichloropropene	10061-02-6	NE	NE	NE	NE	0.0055 U	0.0075 U	0.011 U	0.097 U	0.0010 U	--
trans-1,4-Dichloro-2-butene	110-57-6	NE	NE	0.0074	0.032	0.0022 U	0.0030 U	0.0043 U	0.39 U	0.0040 U	--
Trichloroethylene	79-01-6	0.68	6.5	0.94	6	0.0011 U	0.0015 U	0.0021 U	0.19 U	0.0020 U	--
Trichlorofluoromethane (Freon 11)	75-69-4	NE	NE	23000	350000	0.0055 U	0.0075 U	0.011 U	0.39 U	0.0100 U	--
Vinyl Chloride	75-01-4	0.1	0.59	0.059	1.7	0.0055 U	0.0075 U	0.011 U	0.39 U	0.0100 U	--

Key:
Vermont Soil Standards from Investigation and Remediation of Contaminated Properties Rule, July 2019
RSL - US Environmental Protection Agency, Regional Screening Levels for Residential (Res) and Industrial (Ind) settings, November 2020
mg/kg - milligrams per kilogram (parts per million)
Bold results indicate detections of the analyte
Shaded results indicate an exceedence of the enforcement standard(s)
NE - screening level not established
Q - laboratory result qualifier
U - Analyte not detected; limit of quantitation listed
J - Analyte was detected between the method detection limit and the quantitation limit. Value provided is estimated

Table 4
 Synthetic Precipitation Leaching Procedure for Semi-Volatile Organic Compounds in Soil

SampleID	CAS#	VGES	IP-27-56.0	
Sample Date	CAS#	(µg/L)	12/30/2020	Q
1,2,4,5-Tetrachlorobenzene	95-94-3	NE	10	U
1,2,4-Trichlorobenzene	120-82-1	70	5.0	U
1,2-Dichlorobenzene	95-50-1	600	5.0	U
1,2-Diphenylhydrazine/Azobenzene	122-66-7	NE	10	U
1,3-Dichlorobenzene	541-73-1	600	5.0	U
1,4-Dichlorobenzene	106-46-7	75	5.0	U
1-Methylnaphthalene	90-12-0	NE	13	
2,4,5-Trichlorophenol	95-95-4	NE	10	U
2,4,6-Trichlorophenol	88-06-2	NE	10	U
2,4-Dichlorophenol	120-83-2	NE	10	U
2,4-Dimethylphenol	105-67-9	NE	17	
2,4-Dinitrophenol	51-28-5	NE	10	U
2,4-Dinitrotoluene	121-14-2	NE	10	U
2,6-Dinitrotoluene	606-20-2	NE	10	U
2-Chloronaphthalene	91-58-7	NE	10	U
2-Chlorophenol	95-57-8	NE	10	U
2-Methylnaphthalene	91-57-6	NE	12	
2-Methylphenol	95-48-7	NE	17	
2-Nitroaniline	88-74-4	NE	10	U
2-Nitrophenol	88-75-5	NE	10	U
3,3-Dichlorobenzidine	91-94-1	NE	10	U
3/4-Methylphenol	108-39-4/106-4	NE	44	
3-Nitroaniline	99-09-2	NE	10	U
4,6-Dinitro-2-methylphenol	534-52-1	NE	10	U
4-Bromophenylphenylether	101-55-3	NE	10	U
4-Chloro-3-methylphenol	59-50-7	NE	10	U
4-Chloroaniline	106-47-8	NE	10	U
4-Chlorophenylphenylether	7005-72-3	NE	10	U
4-Nitroaniline	100-01-6	NE	10	U
4-Nitrophenol	100-02-7	NE	10	U
Acenaphthene	83-32-9	NE	5.0	U
Acenaphthylene	208-96-8	NE	5.0	U
Acetophenone	98-86-2	NE	10	U
Aniline	62-53-3	NE	5.0	U
Anthracene	120-12-7	343	5.0	U
Benzidine	92-87-5	NE	20	U
Benzo(a)anthracene	56-55-3	NE	5.0	U
Benzo(a)pyrene	50-32-8	0.2	5.0	U
Benzo(b)fluoranthene	205-99-2	NE	5.0	U
Benzo(g,h,i)perylene	191-24-2	NE	5.0	U
Benzo(k)fluoranthene	207-08-9	NE	5.0	U
Benzoic Acid	65-85-0	NE	10	U
Bis(2-chloroethoxy)methane	111-91-1	NE	10	U
Bis(2-chloroethyl)ether	111-44-4	NE	10	U
Bis(2-chloroisopropyl)ether	108-60-1	46	10	U
Bis(2-Ethylhexyl)phthalate	117-81-7	6	10	U
Butylbenzylphthalate	85-68-7	NE	10	U
Carbazole	86-74-8	NE	10	U
Chrysene	218-01-9	NE	5.0	U
Dibenz(a,h)anthracene	53-70-3	NE	5.0	U
Dibenzofuran	132-64-9	NE	5.0	U
Diethylphthalate	84-66-2	NE	10	U
Dimethylphthalate	131-11-3	NE	10	U
Di-n-butylphthalate	84-74-2	NE	10	U
Di-n-octylphthalate	117-84-0	NE	10	U
Fluoranthene	206-44-0	46	5.0	U

Table 4
 Synthetic Precipitation Leaching Procedure for Semi-Volatile Organic Compounds in Soil

SampleID	CAS#	VGES	IP-27-56.0	
Sample Date	CAS#	(µg/L)	12/30/2020	Q
Fluorene	86-73-7	46	5.0	U
Hexachlorobenzene	118-74-1	1	10	U
Hexachlorobutadiene	87-68-3	NE	10	U
Hexachlorocyclopentadiene	77-47-4	NE	10	U
Hexachloroethane	67-72-1	NE	10	U
Indeno(1,2,3-cd)pyrene	193-39-5	NE	5.0	U
Isophorone	78-59-1	NE	10	U
Naphthalene	91-20-3	0.5	11	
Nitrobenzene	98-95-3	NE	10	U
N-Nitrosodimethylamine	62-75-9	NE	10	U
N-Nitrosodi-n-propylamine	621-64-7	NE	10	U
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	NE	10	U
Pentachloronitrobenzene	82-68-8	NE	10	U
Pentachlorophenol	87-86-5	1	10	U
Phenanthrene	85-01-8	NE	5.0	U
Phenol	108-95-2	NE	10	U
Pyrene	129-00-0	NE	5.0	U
Pyridine	110-86-1	NE	5.0	U

Key:

VGES - Vermont Groundwater Enforcement Standard, July 2019

µg/L - micrograms per liter (parts per billion)

Bold results indicate detections of the analyte

Shaded results indicate an exceedance of the enforcement standard(s)

NE - screening level not established

Q - laboratory result qualifier

U - Analyte not detected; limit of quantitation listed

Table 5
 Synthetic Precipitation Leaching Procedure for Total Petroleum Hydrocarbons in Soil

SampleID	VGES	IP-27-56.0	
Sample Date	CAS#	12/30/2020	Q
	(µg/L)		
2-Methylnaphthalene	91-57-6	NE	15
Acenaphthene	83-32-9	NE	3.3
Acenaphthylene	208-96-8	NE	2 U
Anthracene	120-12-7	343	2 U
Benzo(a)anthracene	56-55-3	NE	2 U
Benzo(a)pyrene	50-32-8	0.2	2 U
Benzo(b)fluoranthene	205-99-2	NE	2 U
Benzo(g,h,i)perylene	191-24-2	NE	2 U
Benzo(k)fluoranthene	207-08-9	NE	2 U
C11-C22 Aromatics	C11-C22AROM	NE	440
C19-C36 Aliphatics	C19-C36ALIP	NE	100 U
C9-C18 Aliphatics	C9-C18ALIP	NE	100 U
Chrysene	218-01-9	NE	2 U
Dibenz(a,h)anthracene	53-70-3	NE	2 U
Fluoranthene	206-44-0	46	2 U
Fluorene	86-73-7	46	3.1
Indeno(1,2,3-cd)pyrene	193-39-5	NE	2 U
Naphthalene	91-20-3	0.5	13
Phenanthrene	85-01-8	NE	2 U
Pyrene	129-00-0	NE	2 U
Unadjusted C11-C22 Aromatics	UC11-C22AROM	NE	480

Key:

VGES - Vermont Groundwater Enforcement Standard, July 2019

µg/L - micrograms per liter (parts per billion)

Bold results indicate detections of the analyte

Shaded results indicate an exceedence of the enforcement standard(s)

NE - screening level not established

Q - laboratory result qualifier

U - Analyte not detected; limit of quantitation listed

Table 6
Synthetic Precipitation Leaching Procedure for Volatile Organic Compounds in Soil

SampleID	CAS#	VGES	IP-27-56.0	
Sample Date	CAS#	(µg/L)	12/30/2020	Q
1,1,1,2-Tetrachloroethane	630-20-6	70	1.0	U
1,1,1-Trichloroethane	71-55-6	200	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	NE	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	NE	1.0	U
1,1,2-Trichloroethane	79-00-5	5	1.0	U
1,1-Dichloroethane	75-34-3	70	1.0	U
1,1-Dichloroethylene	75-35-4	7	1.0	U
1,1-Dichloropropene	563-58-6	NE	2.0	U
1,2,3-Trichlorobenzene	87-61-6	0.9	5.0	U
1,2,3-Trichloropropane	96-18-4	0.02	2.0	U
1,2,3-Trimethylbenzene	526-73-8	23	20	
1,2,4-Trichlorobenzene	120-82-1	70	1.0	U
1,2,4-Trimethylbenzene	95-63-6	23	17	
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	5.0	U
1,2-Dibromoethane (EDB)	106-93-4	0.05	0.50	U
1,2-Dichlorobenzene	95-50-1	600	1.0	U
1,2-Dichloroethane	107-06-2	5	1.0	U
1,2-Dichloropropane	78-87-5	5	1.0	U
1,3,5-Trichlorobenzene	108-70-3	NE	1.0	U
1,3,5-Trimethylbenzene	108-67-8	23	9.6	
1,3-Dichlorobenzene	541-73-1	600	1.0	U
1,3-Dichloropropane	142-28-9	NE	0.50	U
1,4-Dichlorobenzene	106-46-7	75	1.0	U
1,4-Dioxane	123-91-1	0.3	50	U
2,2-Dichloropropane	594-20-7	NE	1.0	U
2-Butanone (MEK)	78-93-3	511	2.4	J
2-Chlorotoluene	95-49-8	100	1.0	U
2-Hexanone (MBK)	591-78-6	NE	10	U
4-Chlorotoluene	106-43-4	100	1.0	U
4-Methyl-2-pentanone (MIBK)	108-10-1	NE	10	U
Acetone	67-64-1	950	12	J
Acrylonitrile	107-13-1	NE	5.0	U
Benzene	71-43-2	5	1.6	
Bromobenzene	108-86-1	NE	1.0	U
Bromochloromethane	74-97-5	8	1.0	U
Bromodichloromethane	75-27-4	NE	0.5	U
Bromoform	75-25-2	NE	1.0	U
Bromomethane	74-83-9	5	5.0	U
Carbon Disulfide	75-15-0	NE	5.0	U
Carbon Tetrachloride	56-23-5	5	5.0	U
Chlorobenzene	108-90-7	100	1.0	U
Chlorodibromomethane	124-48-1	NE	0.50	U

Table 6
Synthetic Precipitation Leaching Procedure for Volatile Organic Compounds in Soil

SampleID	CAS#	VGES	IP-27-56.0	
Sample Date	CAS#		12/30/2020	Q
		(µg/L)		
Chloroethane	75-00-3	NE	2.0	U
Chloroform	67-66-3	NE	2.0	U
Chloromethane	74-87-3	NE	2.0	U
cis-1,2-Dichloroethylene	156-59-2	70	4.0	
cis-1,3-Dichloropropene	10061-01-5	NE	0.50	U
Dibromomethane	74-95-3	NE	1.0	U
Dichlorodifluoromethane (Freon 12)	75-71-8	NE	2.0	U
Diethyl Ether	60-29-7	NE	2.0	U
Diisopropyl Ether (DIPE)	108-20-3	NE	0.50	U
Ethylbenzene	100-41-4	700	7.9	
Hexachlorobutadiene	87-68-3	NE	0.60	U
Isopropylbenzene (Cumene)	98-82-8	NE	0.38	J
m+p Xylene	108383/106423	NE	16	
Methyl Acetate	79-20-9	NE	1.0	U
Methyl Cyclohexane	108-87-2	NE	2.0	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	11	1.0	U
Methylene Chloride	75-09-2	5	12	B
Naphthalene	91-20-3	0.5	21	
n-Butylbenzene	104-51-8	NE	1.0	U
n-Propylbenzene	103-65-1	NE	0.91	J
o-Xylene	95-47-6	10000	4.9	
p-Isopropyltoluene (p-Cymene)	99-87-6	NE	0.54	J
sec-Butylbenzene	135-98-8	NE	1.0	U
Styrene	100-42-5	100	0.39	J
tert-Amyl Methyl Ether (TAME)	994-05-8	NE	0.50	U
tert-Butyl Alcohol (TBA)	75-65-0	NE	20	U
tert-Butyl Ethyl Ether (TBEE)	637-92-3	NE	0.5	U
tert-Butylbenzene	98-06-6	NE	1.0	U
Tetrachloroethylene	127-18-4	5	0.46	J
Tetrahydrofuran	109-99-9	NE	10	U
Toluene	108-88-3	1000	0.61	J
Total Trimethylbenzene	25551-13-7	NE	46.6	
Total Xylene	1330-20-7	10000	20.9	
trans-1,2-Dichloroethylene	156-60-5	100	1.0	U
trans-1,3-Dichloropropene	10061-02-6	NE	0.50	U
trans-1,4-Dichloro-2-butene	110-57-6	NE	2.0	U
Trichloroethylene	79-01-6	5	1.0	U
Trichlorofluoromethane (Freon 11)	75-69-4	NE	2.0	U
Vinyl Acetate	108-05-4	NE	20	U
Vinyl Chloride	75-01-4	2	2.0	U

Key:

VGES - Vermont Groundwater Enforcement Standard, July 2019

µg/L - micrograms per liter (parts per billion)

Bold results indicate detections of the analyte

Shaded results indicate an exceedence of the enforcement standard(s)

NE - screening level not established

Q - laboratory result qualifier

U - Analyte not detected; limit of quantitation listed

J - Analyte was detected between the method detection limit and the quantitation limit. Value provided is estimated

B - Analyte was detected in the associated laboratory blank as well as in the sample

Table 7
Concentrations of Semi Volatile Organic Compounds in Groundwater

Sample ID	CAS#	VGES	IP-01S		IP-01D		IP-03S		IP-03D		IP-03D-FD		IP-28	
			1/6/2021	Q	1/5/2021	Q	1/6/2021	Q	1/5/2021	Q	1/5/2021	Q	1/6/2021	Q
		(µg/L)												
1,2,4,5-Tetrachlorobenzene	95-94-3	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
1,2,4-Trichlorobenzene	120-82-1	70	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
1,2-Dichlorobenzene	95-50-1	600	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
1,2-Diphenylhydrazine/Azobenzene	122-66-7	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
1,3-Dichlorobenzene	541-73-1	600	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
1,4-Dichlorobenzene	106-46-7	75	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
1-Methylnaphthalene	90-12-0	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
2,4,5-Trichlorophenol	95-95-4	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2,4,6-Trichlorophenol	88-06-2	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2,4-Dichlorophenol	120-83-2	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2,4-Dimethylphenol	105-67-9	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2,4-Dinitrophenol	51-28-5	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2,4-Dinitrotoluene	121-14-2	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2,6-Dinitrotoluene	606-20-2	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2-Chloronaphthalene	91-58-7	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2-Chlorophenol	95-57-8	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2-Methylnaphthalene	91-57-6	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
2-Methylphenol	95-48-7	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2-Nitroaniline	88-74-4	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
2-Nitrophenol	88-75-5	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
3,3-Dichlorobenzidine	91-94-1	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
3/4-Methylphenol	108-39-4/106-44-5	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
3-Nitroaniline	99-09-2	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
4,6-Dinitro-2-methylphenol	534-52-1	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
4-Bromophenylphenylether	101-55-3	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
4-Chloro-3-methylphenol	59-50-7	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
4-Chloroaniline	106-47-8	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
4-Chlorophenylphenylether	7005-72-3	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
4-Nitroaniline	100-01-6	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
4-Nitrophenol	100-02-7	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Acenaphthene	83-32-9	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Acenaphthylene	208-96-8	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Acetophenone	98-86-2	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Aniline	62-53-3	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Anthracene	120-12-7	343	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Benzidine	92-87-5	NE	20 U		20 U		21 U		20 U		20 U		20 U	
Benzo(a)anthracene	56-55-3	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Benzo(a)pyrene	50-32-8	0.2	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Benzo(b)fluoranthene	205-99-2	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Benzo(g,h,i)perylene	191-24-2	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Benzo(k)fluoranthene	207-08-9	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Benzoic Acid	65-85-0	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Bis(2-chloroethoxy)methane	111-91-1	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Bis(2-chloroethyl)ether	111-44-4	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Bis(2-chloroisopropyl)ether	108-60-1	46	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Bis(2-Ethylhexyl)phthalate	117-81-7	6	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Butylbenzylphthalate	85-68-7	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Carbazole	86-74-8	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Chrysene	218-01-9	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Dibenz(a,h)anthracene	53-70-3	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Dibenzofuran	132-64-9	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Diethylphthalate	84-66-2	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Dimethylphthalate	131-11-3	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Di-n-butylphthalate	84-74-2	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Di-n-octylphthalate	117-84-0	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Fluoranthene	206-44-0	46	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Fluorene	86-73-7	46	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Hexachlorobenzene	118-74-1	1	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Hexachlorobutadiene	87-68-3	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Hexachlorocyclopentadiene	77-47-4	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Hexachloroethane	67-72-1	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Indeno(1,2,3-cd)pyrene	193-39-5	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Isophorone	78-59-1	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Naphthalene	91-20-3	0.5	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Nitrobenzene	98-95-3	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
N-Nitrosodimethylamine	62-75-9	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
N-Nitrosodi-n-propylamine	621-64-7	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Pentachloronitrobenzene	82-68-8	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Pentachlorophenol	87-86-5	1	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Phenanthrene	85-01-8	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Phenol	108-95-2	NE	9.8 U		9.8 U		11 U		10 U		10 U		10 U	
Pyrene	129-00-0	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	
Pyridine	110-86-1	NE	4.9 U		4.9 U		5.3 U		5.0 U		5.0 U		5.0 U	

Table 7
Concentrations of Semi Volatile Organic Compounds in Groundwater

Sample ID	VGES	Shallow Well	Deep Well	
Sample Date	CAS#	1/6/2021	1/6/2021	
	(µg/L)	Q	Q	
1,2,4,5-Tetrachlorobenzene	95-94-3	NE	10 U	9.9 U
1,2,4-Trichlorobenzene	120-82-1	70	5.1 U	5.0 U
1,2-Dichlorobenzene	95-50-1	600	5.1 U	5.0 U
1,2-Diphenylhydrazine/Azobenzene	122-66-7	NE	10 U	9.9 U
1,3-Dichlorobenzene	541-73-1	600	5.1 U	5.0 U
1,4-Dichlorobenzene	106-46-7	75	5.1 U	5.0 U
1-Methylnaphthalene	90-12-0	NE	5.1 U	5.0 U
2,4,5-Trichlorophenol	95-95-4	NE	10 U	9.9 U
2,4,6-Trichlorophenol	88-06-2	NE	10 U	9.9 U
2,4-Dichlorophenol	120-83-2	NE	10 U	9.9 U
2,4-Dimethylphenol	105-67-9	NE	10 U	9.9 U
2,4-Dinitrophenol	51-28-5	NE	10 U	9.9 U
2,4-Dinitrotoluene	121-14-2	NE	10 U	9.9 U
2,6-Dinitrotoluene	606-20-2	NE	10 U	9.9 U
2-Chloronaphthalene	91-58-7	NE	10 U	9.9 U
2-Chlorophenol	95-57-8	NE	10 U	9.9 U
2-Methylnaphthalene	91-57-6	NE	5.1 U	5.0 U
2-Methylphenol	95-48-7	NE	10 U	9.9 U
2-Nitroaniline	88-74-4	NE	10 U	9.9 U
2-Nitrophenol	88-75-5	NE	10 U	9.9 U
3,3-Dichlorobenzidine	91-94-1	NE	10 U	9.9 U
3/4-Methylphenol	108-39-4/106-44-5	NE	10 U	9.9 U
3-Nitroaniline	99-09-2	NE	10 U	9.9 U
4,6-Dinitro-2-methylphenol	534-52-1	NE	10 U	9.9 U
4-Bromophenylphenylether	101-55-3	NE	10 U	9.9 U
4-Chloro-3-methylphenol	59-50-7	NE	10 U	9.9 U
4-Chloroaniline	106-47-8	NE	10 U	9.9 U
4-Chlorophenylphenylether	7005-72-3	NE	10 U	9.9 U
4-Nitroaniline	100-01-6	NE	10 U	9.9 U
4-Nitrophenol	100-02-7	NE	10 U	9.9 U
Acenaphthene	83-32-9	NE	5.1 U	5.0 U
Acenaphthylene	208-96-8	NE	5.1 U	5.0 U
Acetophenone	98-86-2	NE	10 U	9.9 U
Aniline	62-53-3	NE	5.1 U	5.0 U
Anthracene	120-12-7	343	5.1 U	5.0 U
Benidine	92-87-5	NE	20 U	20 U
Benzo(a)anthracene	56-55-3	NE	5.1 U	5.0 U
Benzo(a)pyrene	50-32-8	0.2	5.1 U	5.0 U
Benzo(b)fluoranthene	205-99-2	NE	5.1 U	5.0 U
Benzo(g,h,i)perylene	191-24-2	NE	5.1 U	5.0 U
Benzo(k)fluoranthene	207-08-9	NE	5.1 U	5.0 U
Benzoic Acid	65-85-0	NE	10 U	9.9 U
Bis(2-chloroethoxy)methane	111-91-1	NE	10 U	9.9 U
Bis(2-chloroethyl)ether	111-44-4	NE	10 U	9.9 U
Bis(2-chloroisopropyl)ether	108-60-1	46	10 U	9.9 U
Bis(2-Ethylhexyl)phthalate	117-81-7	6	10 U	9.9 U
Butylbenzylphthalate	85-68-7	NE	10 U	9.9 U
Carbazole	86-74-8	NE	10 U	9.9 U
Chrysene	218-01-9	NE	5.1 U	5.0 U
Dibenz(a,h)anthracene	53-70-3	NE	5.1 U	5.0 U
Dibenzofuran	132-64-9	NE	5.1 U	5.0 U
Diethylphthalate	84-66-2	NE	10 U	9.9 U
Dimethylphthalate	131-11-3	NE	10 U	9.9 U
Di-n-butylphthalate	84-74-2	NE	10 U	9.9 U
Di-n-octylphthalate	117-84-0	NE	10 U	9.9 U
Fluoranthene	206-44-0	46	5.1 U	5.0 U
Fluorene	86-73-7	46	5.1 U	5.0 U
Hexachlorobenzene	118-74-1	1	10 U	9.9 U
Hexachlorobutadiene	87-68-3	NE	10 U	9.9 U
Hexachlorocyclopentadiene	77-47-4	NE	10 U	9.9 U
Hexachloroethane	67-72-1	NE	10 U	9.9 U
Indeno(1,2,3-cd)pyrene	193-39-5	NE	5.1 U	5.0 U
Isophorone	78-59-1	NE	10 U	9.9 U
Naphthalene	91-20-3	0.5	5.1 U	5.0 U
Nitrobenzene	98-95-3	NE	10 U	9.9 U
N-Nitrosodimethylamine	62-75-9	NE	10 U	9.9 U
N-Nitrosodi-n-propylamine	621-64-7	NE	10 U	9.9 U
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	NE	10 U	9.9 U
Pentachloronitrobenzene	82-68-8	NE	10 U	9.9 U
Pentachlorophenol	87-86-5	1	10 U	9.9 U
Phenanthrene	85-01-8	NE	5.1 U	5.0 U
Phenol	108-95-2	NE	10 U	9.9 U
Pyrene	129-00-0	NE	5.1 U	5.0 U
Pyridine	110-86-1	NE	5.1 U	5.0 U

Key:
 VGES - Vermont Groundwater Enforcement Standard, July 2019
 µg/L - micrograms per liter (parts per billion)
Bold results indicate detections of the analyte
 Shaded results indicate an exceedence of the enforcement standard(s)
 NE - screening level not established
 Q - laboratory result qualifier
 U - Analyte not detected; limit of quantitation listed
 J - Analyte was detected between the method detection limit and the quantitation limit. Value provided is estimated

Table 8
Concentrations of Extractable Petroleum Hydrocarbons in Groundwater

SampleID	VGES	IP-01s	IP-01D	IP-03s	IP-03D	IP-03D-FD	IP-28
Sample Date	CAS#	1/6/2021	1/5/2021	1/6/2021	1/5/2021	1/5/2021	1/6/2021
	(µg/L)	Q	Q	Q	Q	Q	Q
2-Methylnaphthalene	91-57-6	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Acenaphthene	83-32-9	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Acenaphthylene	208-96-8	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Anthracene	120-12-7	343	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(a)anthracene	56-55-3	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(a)pyrene	50-32-8	0.2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(b)fluoranthene	205-99-2	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(g,h,i)perylene	191-24-2	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(k)fluoranthene	207-08-9	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
C11-C22 Aromatics	C11-C22AROM	NE	98 U	100 U	100 U	100 U	98 U
C19-C36 Aliphatics	C19-C36ALIP	NE	98 U	100 U	100 U	100 U	98 U
C9-C18 Aliphatics	C9-C18ALIP	NE	98 U	100 U	100 U	100 U	98 U
Chrysene	218-01-9	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dibenz(a,h)anthracene	53-70-3	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Fluoranthene	206-44-0	46	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Fluorene	86-73-7	46	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Indeno(1,2,3-cd)pyrene	193-39-5	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Naphthalene	91-20-3	0.5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Phenanthrene	85-01-8	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Pyrene	129-00-0	NE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Unadjusted C11-C22 Aromatics	UC11-C22AROM	NE	98 U	100 U	100 U	100 U	98 U

Key:
 VGES - Vermont Groundwater Enforcement Standard, July 2019
 µg/L - micrograms per liter (parts per billion)
Bold results indicate detections of the analyte
 Shaded results indicate an exceedence of the enforcement standard(s)
 NE - screening level not established
 Q - laboratory result qualifier
 U - Analyte not detected; limit of quantitation listed

Table 9
Concentrations of Volatile Organic Compounds in Groundwater

Sample ID	Sample Date	CAS#	VGES (µg/L)	Shallow Well		Deep Well		TB-010621		TB-010721	
				1/6/2021	Q	1/6/2021	Q	1/6/2021	Q	1/6/2021	Q
1,1,1,2-Tetrachloroethane		630-20-6	70	1.0 U		1.0 U		1.0 U		1.0 U	
1,1,1-Trichloroethane		71-55-6	200	1.0 U		1.0 U		1.0 U		1.0 U	
1,1,2,2-Tetrachloroethane		79-34-5	NE	0.50 U		0.50 U		0.50 U		0.50 U	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	NE	1.0 U		1.0 U		1.0 U		1.0 U	
1,1,2-Trichloroethane		79-00-5	5	1.0 U		1.0 U		1.0 U		1.0 U	
1,1-Dichloroethane		75-34-3	70	1.0 U		1.0 U		1.0 U		1.0 U	
1,1-Dichloroethylene		75-35-4	7	1.0 U		1.0 U		1.0 U		1.0 U	
1,1-Dichloropropene		563-58-6	NE	2.0 U		2.0 U		2.0 U		2.0 U	
1,2,3-Trichlorobenzene		87-61-6	0.9	0.57 U*		0.57 U*		5.0 U		0.57 U*	
1,2,3-Trichloropropane		96-18-4	0.02	0.25 U*		0.25 U*		2.0 U		0.25 U*	
1,2,3-Trimethylbenzene		526-73-8	23	0.50 U		0.50 U		0.50 U		0.50 U	
1,2,4-Trichlorobenzene		120-82-1	70	1.0 U		1.0 U		1.0 U		1.0 U	
1,2,4-Trimethylbenzene		95-63-6	23	1.0 U		1.0 U		1.0 U		1.0 U	
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	0.2	0.53 U*		0.53 U*		5.0 U		0.53 U*	
1,2-Dibromoethane (EDB)		106-93-4	0.05	0.19 U*		0.19 U*		0.50 U		0.19 U*	
1,2-Dichlorobenzene		95-50-1	600	1.0 U		1.0 U		1.0 U		1.0 U	
1,2-Dichloroethane		107-06-2	5	1.0 U		1.0 U		1.0 U		1.0 U	
1,2-Dichloropropane		78-87-5	5	1.0 U		1.0 U		1.0 U		1.0 U	
1,3,5-Trichlorobenzene		108-70-3	NE	1.0 U		1.0 U		1.0 U		1.0 U	
1,3,5-Trimethylbenzene		108-67-8	23	1.0 U		1.0 U		1.0 U		1.0 U	
1,3-Dichlorobenzene		541-73-1	600	1.0 U		1.0 U		1.0 U		1.0 U	
1,3-Dichloropropane		142-28-9	NE	0.50 U		0.50 U		0.50 U		0.50 U	
1,4-Dichlorobenzene		106-46-7	75	1.0 U		1.0 U		1.0 U		1.0 U	
1,4-Dioxane		123-91-1	0.3	22 U*		22 U*		50 U		22 U*	
2,2-Dichloropropane		594-20-7	NE	1.0 U		1.0 U		1.0 U		1.0 U	
2-Butanone (MEK)		78-93-3	511	20 U		20 U		20 U		20 U	
2-Chlorotoluene		95-49-8	100	1.0 U		1.0 U		1.0 U		1.0 U	
2-Hexanone (MBK)		591-78-6	NE	10 U		10 U		10 U		10 U	
4-Chlorotoluene		106-43-4	100	1.0 U		1.0 U		1.0 U		1.0 U	
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	10 U		10 U		10 U		10 U	
Acetone		67-64-1	950	50 U		50 U		50 U		50 U	
Acrylonitrile		107-13-1	NE	5.0 U		5.0 U		5.0 U		5.0 U	
Benzene		71-43-2	5	1.0 U		1.0 U		1.0 U		1.0 U	
Bromobenzene		108-86-1	NE	1.0 U		1.0 U		1.0 U		1.0 U	
Bromochloromethane		74-97-5	8	1.0 U		1.0 U		1.0 U		1.0 U	
Bromodichloromethane		75-27-4	NE	0.50 U		0.50 U		0.50 U		0.50 U	
Bromoform		75-25-2	NE	1.0 U		1.0 U		2.0 U		1.0 U	
Bromomethane		74-83-9	5	1.4 U*		1.4 U*		2.0 U		1.4 U*	
Carbon Disulfide		75-15-0	NE	5.0 U		5.0 U		5.0 U		5.0 U	
Carbon Tetrachloride		56-23-5	5	0.11 U*		0.11 U*		5.0 U		0.11 U*	
Chlorobenzene		108-90-7	100	1.0 U		1.0 U		1.0 U		1.0 U	
Chlorodibromomethane		124-48-1	NE	0.50 U		0.50 U		0.50 U		0.50 U	
Chloroethane		75-00-3	NE	2.0 U		2.0 U		2.0 U		2.0 U	
Chloroform		67-66-3	NE	2.0 U		2.0 U		2.0 U		2.0 U	
Chloromethane		74-87-3	NE	2.0 U		2.0 U		2.0 U		2.0 U	
cis-1,2-Dichloroethylene		156-59-2	70	1.0 U		1.0 U		1.0 U		1.0 U	
cis-1,3-Dichloropropene		10061-01-5	NE	0.50 U		0.50 U		0.50 U		0.50 U	
Dibromomethane		74-95-3	NE	1.0 U		1.0 U		1.0 U		1.0 U	
Dichlorodifluoromethane (Freon 12)		75-71-8	NE	2.0 U		2.0 U		2.0 U		2.0 U	
Diethyl Ether		60-29-7	NE	2.0 U		2.0 U		2.0 U		2.0 U	
Diisopropyl Ether (DIPE)		108-20-3	NE	0.50 U		0.50 U		0.50 U		0.50 U	
Ethylbenzene		100-41-4	700	1.0 U		1.0 U		1.0 U		1.0 U	
Hexachlorobutadiene		87-68-3	NE	0.60 U		0.60 U		0.60 U		0.60 U	
Isopropylbenzene (Cumene)		98-82-8	NE	1.0 U		1.0 U		1.0 U		1.0 U	
m+p Xylene		108383/106423	NE	2.0 U		2.0 U		2.0 U		2.0 U	
Methyl Acetate		79-20-9	NE	1.0 U		1.0 U		1.0 U		1.0 U	
Methyl Cyclohexane		108-87-2	NE	1.0 U		1.0 U		1.0 U		1.0 U	
Methyl tert-Butyl Ether (MTBE)		1634-04-4	11	7.9		1.7		1.0 U		1.0 U	
Methylene Chloride		75-09-2	5	0.34 U*		0.34 U*		5.0 U		0.34 U*	
Naphthalene		91-20-3	0.5	0.31 U*		0.31 U*		2.0 U		0.31 U*	
n-Butylbenzene		104-51-8	NE	1.0 U		1.0 U		1.0 U		1.0 U	
n-Propylbenzene		103-65-1	NE	1.0 U		1.0 U		1.0 U		1.0 U	
o-Xylene		95-47-6	10000	1.0 U		1.0 U		1.0 U		1.0 U	
p-Isopropyltoluene (p-Cymene)		99-87-6	NE	1.0 U		1.0 U		1.0 U		1.0 U	
sec-Butylbenzene		135-98-8	NE	1.0 U		1.0 U		1.0 U		1.0 U	
Styrene		100-42-5	100	1.0 U		1.0 U		1.0 U		1.0 U	
tert-Amyl Methyl Ether (TAME)		994-05-8	NE	0.39 J		0.50 U		0.50 U		0.50 U	
tert-Butyl Alcohol (TBA)		75-65-0	NE	20 U		20 U		20 U		20 U	
tert-Butyl Ethyl Ether (TBEE)		637-92-3	NE	0.50 U		0.50 U		0.50 U		0.50 U	
tert-Butylbenzene		98-06-6	NE	1.0 U		1.0 U		1.0 U		1.0 U	
Tetrachloroethylene		127-18-4	5	1.0 U		1.0 U		1.0 U		1.0 U	
Tetrahydrofuran		109-99-9	NE	10 U		10 U		10 U		10 U	
Toluene		108-88-3	1000	1.0 U		1.0 U		1.0 U		1.0 U	
Total Trimethylbenzene		25551-13-7	NE	1.0 U		1.0 U		1.0 U		1.0 U	
Total Xylene		1330-20-7	10000	2.0 U		2.0 U		2.0 U		2.0 U	
trans-1,2-Dichloroethylene		156-60-5	100	1.0 U		1.0 U		1.0 U		1.0 U	
trans-1,3-Dichloropropene		10061-02-6	NE	0.50 U		0.50 U		0.50 U		0.50 U	
trans-1,4-Dichloro-2-butene		110-57-6	NE	2.0 U		2.0 U		2.0 U		2.0 U	
Trichloroethylene		79-01-6	5	1.0 U		1.0 U		1.0 U		1.0 U	

Table 9
Concentrations of Volatile Organic Compounds in Groundwater

Trichlorofluoromethane (Freon 11)	75-69-4	NE	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	75-01-4	2	0.45 U*	0.45 U*	2.0 U	0.45 U*

Key:

VGES - Vermont Groundwater Enforcement Standard, July 2019

µg/L - micrograms per liter (parts per billion)

Bold results indicate detections of the analyte

Shaded results indicate an exceedence of the enforcement standard(s)

NE - screening level not established

Q - laboratory result qualifier

U - Analyte not detected; limit of quantitation listed

J - Analyte was detected between the method detection limit and the quantitation limit. Value provided is estimated

U* - Analyte not detected, method detection limit listed

Appendix E: Laboratory Reports



INTEGRATED GEOSCIENCES LABORATORIES, LLC

*Environmental * Geotechnical * Core Analysis*

6016 Centralcrest Street • Houston, Texas 77092
Telephone (713) 316-1800 • Fax (877) 255-9953

January 12, 2021

Lee Rosberg,
Project Manager,
Stone Environmental,
535 Stone Cutters Way,
Montpelier, VT 05602.

Re: IGL File No: **2101-1**
Project Name: **Long Falls Paperboard SSI**
Project Number: **19-015 4.2**
Site Location: **161 Wellington Rd, Brattleboro, VT**

Subject: Final Report: Fluid Properties Package-(Density/Specific Gravity, Viscosity & Interfacial Tension – (ASTM D1481, ASTM D445, ASTM D971).

Dear Lee Rosberg,

Please find enclosed report for Fluid properties Package analyses conducted on fluid samples received from your “**Long Falls Paperboard SSI**” project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past the completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

Integrated Geosciences Laboratories appreciate the opportunity to be of service. If you have any questions or require additional information, please contact me or Emeka Anazodo at (713) 316-1800.

Sincerely,
Integrated Geosciences Laboratories, LLC.

Wumi Andrew.

Laboratory Technician.

Encl.

Integrated Geosciences Laboratories, LLC.

Project Name: Long Falls Paperboard SSI
 Project Number: 19-015 4.2
 Site Location: 161 Wellington Rd, Brattleboro, VT

IGL File No: 2101-1
 Client: Stone Environmental
 Date Received: 1/8/2021

TEST PROGRAM - 20210108

Serial Number	Sample ID	Date Sampled	Time Sampled	Depth (feet)	Matix Type	Fluid Properties Package LNAPL / DNAPL <small>(ASTM D445, D1481, D971)</small>	Comments
Date Received: 20210108							
1	MW-16	11/24/2020	1500	68	DNAPL	X	1- [1 Liter amber glass jar]
1	IP-035	1/6/2021	1600	N/A	Groundwater	X	1- [8oz amber glass jar]
	TOTAL					1	2

Laboratory Test Program Notes

1. Standard TAT for basic analysis is 10-15 business days.

IGL File No: 2101-1
 Client: Stone Environmental
 Report Date: 1/12/2021

VISCOSITY, DENSITY, and SPECIFIC GRAVITY DATA
 (METHODOLOGY: ASTM D445, ASTM D1481, API RP40)

Project Name: Long Falls Paperboard SSI
 Project No: 19-015 4.2
 Site Location: 161 Wellington Rd, Brattleboro, VT

SAMPLE ID	IGL ID	MATRIX	TEMPERATURE, °F	SPECIFIC GRAVITY	DENSITY, g/cc	VISCOSITY	
						centistokes	centipoise
IP-035	1	Ground Water	70	0.9994	0.9974	0.988	0.985
			100	0.9986	0.9917	0.698	0.693
			130	0.9933	0.9793	0.528	0.517
MW-16	1	DNAPL	70	1.0006	1.0016	14108.11	13986.90
			100	0.9990	0.9924	8229.48	8149.23
			130	0.9973	0.9833	2350.84	2311.56

QUALITY CONTROL DATA

Date: 01/11/21
 FLUID TYPE: Cannon® CVS S3
 TEMPERATURE, °F: 70
 DENSITY, MEASURED: 0.8615
 DENSITY, PUBLISHED: 0.8615
 RPD: 0.00
 VISCOSITY, MEASURED: 4.49
 VISCOSITY, PUBLISHED: 4.47
 RPD: 0.51

CVS Lot #: 17301

CVS = Certified Viscosity Standard

IGL File No: 2101-1
 Client: Stone Environmental
 Report Date: 1/12/2021

INTERFACIAL / SURFACE TENSION DATA
 (METHODOLOGY: DuNuoy Method - ASTM D971)

Project Name: Long Falls Paperboard SSI
 Project No: 19-015 4.2
 Site Location: 161 Wellington Rd, Brattleboro, VT

PHASE PAIR		TEMPERATURE,	INTERFACIAL TENSION,
SAMPLE ID / PHASE	SAMPLE ID / PHASE	°F	Dynes/centimeter
IP-035 Ground Water	Air	100.0	69.56
MW-16 NAPL	Air	100.0	31.26
MW-16 NAPL	IP-035 Ground Water	100.0	27.03

QUALITY CONTROL DATA

Date: 01/12/21
 PHASE PAIR: DIWATER / AIR
 TEMPERATURE, °F: 67.0
 IFT, MEASURED: 69.9
 IFT, PUBLISHED: 72.4
 RPD: -3.53

(formerly PTS Laboratories, Inc.)

COMPANY: Stone Environmental

ADDRESS: CITY ZIP CODE
535 Stone Cutters Way Montpelier 05602

PROJECT MANAGER NAME: EMAIL PHONE #
Lee Rosberg lrosberg@stone-env.com 802-281-5378

PROJECT NAME:
Long Falls Paperboard SSI

PROJECT NUMBER:
19-015 4.2

SITE LOCATION:
161 Wellington Rd, Battleboro, VT

SAMPLER SIGNATURE: [Signature]

ANALYSIS REQUEST

NUMBER OF SAMPLES	SOIL PROPERTIES PACKAGE	HYDRAULIC CONDUCTIVITY PACKAGE	PORE FLUID SATURATION PACKAGE	ICE/WATER PROPERTIES PACKAGE	CAPILLARITY PACKAGE	FLUID PROPERTIES PACKAGE	CORE PHOTOGRAPHY	VAPOR TRANSPORT PACKAGE	POROSITY: TOTAL, AIR-FILLED, WATER-FILLED	PROSITY: EFFECTIVE, ASTM D425M	SPECIFIC GRAVITY, ASTM D854	BULK DENSITY (DRY), API RP40 or ASTM D2937	AIR PERMEABILITY, AP, RP40	HYDRAULIC CONDUCTIVITY, FFA 9105/AP, RP40 OR ASTM D5084	GRAIN SIZE DISTRIBUTION, ASTM D422 or D4464M	TOC: WALKLEY-BLACK	ATTERBERG LIMITS, ASTM D4318	VAPOR INTRUSION PACKAGE	FREE PRODUCT MOBILITY PACKAGE
1							<input checked="" type="checkbox"/>												
1							<input checked="" type="checkbox"/>												

PO #:

BILLING ADDRESS:

BILLING EMAIL:

BILLING CONTACT:

BILLING PHONE #:

TURNAROUND TIME

24 HOURS	5 DAYS
72 HOURS	NORMAL

OTHERS:

SAMPLE INTEGRITY (CHECK):

INTACT: TEMP (F)

IGL QUOTE NO/DATE

IGL FILE NO
2101-1

COMMENTS

SAMPLE ID	DATE	TIME	DEPTH, FEET
<u>MW-16</u>	<u>11/24/20</u>	<u>1500</u>	<u>68'</u>
<u>IP-035</u>	<u>01/06/20</u>	<u>1600</u>	

1. RELINQUISHED BY: L. Rayniak

COMPANY: Stone Environmental

DATE: 01/07/21 TIME: 1500

2. RECEIVED BY: [Signature]

COMPANY: via FedEx

DATE: TIME:

1. RELINQUISHED BY:

COMPANY:

DATE: TIME:

2. RECEIVED BY: [Signature]

COMPANY: IGL

DATE: 1/8/21 TIME: 1000

January 5, 2021

Lee Rosberg
Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602

Project Location: 161 Wellington Rd, Brattleboro, VT
Client Job Number:
Project Number: 19-015
Laboratory Work Order Number: 20L1243

Enclosed are results of analyses for samples received by the laboratory on December 24, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	7
20L1243-01	7
20L1243-02	13
20L1243-03	19
Sample Preparation Information	21
QC Data	22
Volatile Organic Compounds by GC/MS	22
B273566	22
Semivolatile Organic Compounds by GC/MS	27
B273559	27
Petroleum Hydrocarbons Analyses - EPH	32
B273517	32
Flag/Qualifier Summary	34
Certifications	35
Chain of Custody/Sample Receipt	42



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602
ATTN: Lee Rosberg

REPORT DATE: 1/5/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 19-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20L1243

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 161 Wellington Rd, Brattleboro, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1P25-52'	20L1243-01	Soil		MADEP EPH rev 2.1 SM 2540G SW-846 8260C-D SW-846 8270D-E	
1P25-52'-FD	20L1243-02	Soil		MADEP EPH rev 2.1 SM 2540G SW-846 8260C-D SW-846 8270D-E	
trip blank	20L1243-03	Trip Blank Soil		SW-846 8260C-D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Methyl Acetate

B273566-BSD1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Methyl Acetate

B273566-BS1, B273566-BSD1, S055760-CCV1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)

B273566-BS1, B273566-BSD1, S055760-CCV1

Qualifications:

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

Benzidine

20L1243-01[1P25-52'], 20L1243-02[1P25-52'-FD], B273559-BLK1, B273559-BS1, B273559-BSD1, S055870-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Benzidine

20L1243-01[1P25-52'], 20L1243-02[1P25-52'-FD], B273559-BLK1, B273559-BS1, B273559-BSD1, S055870-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Benzoic Acid

20L1243-01[1P25-52'], 20L1243-02[1P25-52'-FD], B273559-BLK1, B273559-BS1, B273559-BSD1, S055870-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline

20L1243-01[1P25-52'], 20L1243-02[1P25-52'-FD], B273559-BLK1, B273559-BS1, B273559-BSD1, S054918-ICV1, S055870-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Benzidine

20L1243-01[1P25-52'], 20L1243-02[1P25-52'-FD], B273559-BLK1, B273559-BS1, B273559-BSD1, S054918-ICV1, S055870-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Acrylonitrile	ND	0.0033	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Bromochloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Bromoform	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Bromomethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
2-Butanone (MEK)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
tert-Butyl Alcohol (TBA)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Carbon Disulfide	ND	0.0033	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Carbon Tetrachloride	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Chlorodibromomethane	ND	0.00055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Chloroethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Chloroform	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Chloromethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,2-Dibromoethane (EDB)	ND	0.00055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
trans-1,4-Dichloro-2-butene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,1-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,3-Dichloropropane	ND	0.00055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
cis-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
trans-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Diethyl Ether	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,4-Dioxane	ND	0.055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Methyl Acetate	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Methyl Cyclohexane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Methylene Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Naphthalene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
n-Propylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Styrene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.00055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Tetrahydrofuran	ND	0.0055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,2,3-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,2,4-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,3,5-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Trichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
1,3,5-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Vinyl Chloride	ND	0.0055	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
m+p Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:13	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		106	70-130				12/28/20	8:13	
Toluene-d8		105	70-130				12/28/20	8:13	
4-Bromofluorobenzene		104	70-130				12/28/20	8:13	

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Benzidine	ND	0.70	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Benzoic Acid	ND	1.1	mg/Kg dry	1	V-06	SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
4-Chloroaniline	ND	0.70	mg/Kg dry	1	V-34	SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
4-Chloro-3-methylphenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
4-Chlorophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
4,6-Dinitro-2-methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Hexachlorocyclopentadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
3-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
4-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
N-Nitrosodimethylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
N-Nitrosodi-n-propylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Pentachloronitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:03	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	79.9	30-130	12/29/20 22:03
Phenol-d6	87.8	30-130	12/29/20 22:03
Nitrobenzene-d5	67.2	30-130	12/29/20 22:03
2-Fluorobiphenyl	77.2	30-130	12/29/20 22:03
2,4,6-Tribromophenol	94.4	30-130	12/29/20 22:03
p-Terphenyl-d14	83.2	30-130	12/29/20 22:03

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Chrysene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Fluorene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:26	RDD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Chlorooctadecane (COD)		70.0	40-140					12/29/20 2:26	
o-Terphenyl (OTP)		88.7	40-140					12/29/20 2:26	
2-Bromonaphthalene		120	40-140					12/29/20 2:26	
2-Fluorobiphenyl		124	40-140					12/29/20 2:26	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	12/26/20	12/27/20 13:18	ERL



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'-FD

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Acrylonitrile	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Bromomethane	ND	0.0075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
tert-Butyl Alcohol (TBA)	ND	0.030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Carbon Disulfide	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Chlorodibromomethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Chloromethane	ND	0.0075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,2-Dibromoethane (EDB)	ND	0.00075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,3-Dichloropropane	ND	0.00075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,1-Dichloropropene	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
cis-1,3-Dichloropropene	ND	0.00075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
trans-1,3-Dichloropropene	ND	0.00075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Diethyl Ether	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'-FD

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,4-Dioxane	ND	0.075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Methyl Acetate	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Methyl Cyclohexane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Tetrahydrofuran	ND	0.0075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,3,5-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,2,3-Trichloropropane	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Vinyl Chloride	ND	0.0075	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	12/28/20	12/28/20 8:40	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		107	70-130				12/28/20	8:40	
Toluene-d8		104	70-130				12/28/20	8:40	
4-Bromofluorobenzene		103	70-130				12/28/20	8:40	

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'-FD

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Benzidine	ND	0.73	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Benzoic Acid	ND	1.1	mg/Kg dry	1	V-06	SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1	V-34	SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
4-Chloro-3-methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'-FD

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
1-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
N-Nitrosodimethylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	12/26/20	12/29/20 22:27	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	88.7	30-130	12/29/20 22:27
Phenol-d6	96.0	30-130	12/29/20 22:27
Nitrobenzene-d5	72.9	30-130	12/29/20 22:27
2-Fluorobiphenyl	82.4	30-130	12/29/20 22:27
2,4,6-Tribromophenol	95.3	30-130	12/29/20 22:27
p-Terphenyl-d14	83.1	30-130	12/29/20 22:27

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'-FD

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Chrysene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Fluorene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	12/24/20	12/29/20 2:45	RDD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Chlorooctadecane (COD)		77.6	40-140					12/29/20 2:45	
o-Terphenyl (OTP)		95.8	40-140					12/29/20 2:45	
2-Bromonaphthalene		123	40-140					12/29/20 2:45	
2-Fluorobiphenyl		127	40-140					12/29/20 2:45	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: 1P25-52'-FD

Sampled: 12/22/2020 15:30

Sample ID: 20L1243-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	12/26/20	12/27/20 13:18	ERL



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: trip blank

Sampled: 12/22/2020 16:00

Sample ID: 20L1243-03

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Bromochloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,1-Dichloropropene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Diethyl Ether	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF

Project Location: 161 Wellington Rd, Brattleboro, V

Sample Description:

Work Order: 20L1243

Date Received: 12/24/2020

Field Sample #: trip blank

Sampled: 12/22/2020 16:00

Sample ID: 20L1243-03

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,4-Dioxane	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Methyl Acetate	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Methyl Cyclohexane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,2,3-Trichloropropane	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	12/28/20	12/28/20 9:07	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		102	70-130				12/28/20	9:07	
Toluene-d8		105	70-130				12/28/20	9:07	
4-Bromofluorobenzene		104	70-130				12/28/20	9:07	

Sample Extraction Data

Prep Method: SW-846 3546 Analytical Method: MADEP EPH rev 2.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20L1243-01 [1P25-52']	B273517	20.0	2.00	12/24/20
20L1243-02 [1P25-52'-FD]	B273517	20.2	2.00	12/24/20

Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
20L1243-01 [1P25-52']	B273556	12/26/20
20L1243-02 [1P25-52'-FD]	B273556	12/26/20

Prep Method: SW-846 5035 Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20L1243-01 [1P25-52']	B273566	9.81	10.0	12/28/20
20L1243-02 [1P25-52'-FD]	B273566	7.39	10.0	12/28/20
20L1243-03 [trip blank]	B273566	5.00	10.0	12/28/20

Prep Method: SW-846 3546 Analytical Method: SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20L1243-01 [1P25-52']	B273559	30.4	1.00	12/26/20
20L1243-02 [1P25-52'-FD]	B273559	30.1	1.00	12/26/20

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273566 - SW-846 5035
Blank (B273566-BLK1)

Prepared & Analyzed: 12/28/20

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273566 - SW-846 5035

Blank (B273566-BLK1)

Prepared & Analyzed: 12/28/20

Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0530		mg/Kg wet	0.0500		106	70-130			

LCS (B273566-BS1)

Prepared & Analyzed: 12/28/20

Acetone	0.172	0.10	mg/Kg wet	0.200		85.9	70-160			†
Acrylonitrile	0.0200	0.0060	mg/Kg wet	0.0200		100	70-130			
tert-Amyl Methyl Ether (TAME)	0.0196	0.0010	mg/Kg wet	0.0200		97.9	70-130			
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
Bromochloromethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
Bromoform	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
Bromomethane	0.0222	0.010	mg/Kg wet	0.0200		111	40-130			†
2-Butanone (MEK)	0.187	0.040	mg/Kg wet	0.200		93.7	70-160			†
tert-Butyl Alcohol (TBA)	0.185	0.040	mg/Kg wet	0.200		92.4	40-130			†
n-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
sec-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130			
tert-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130			
Carbon Disulfide	0.198	0.0060	mg/Kg wet	0.200		99.0	70-130			
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Chlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
Chlorodibromomethane	0.0197	0.0010	mg/Kg wet	0.0200		98.7	70-130			
Chloroethane	0.0228	0.020	mg/Kg wet	0.0200		114	70-130			
Chloroform	0.0196	0.0040	mg/Kg wet	0.0200		98.2	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273566 - SW-846 5035										
LCS (B273566-BS1)										
Prepared & Analyzed: 12/28/20										
Chloromethane	0.0225	0.010	mg/Kg wet	0.0200		113	70-130			
2-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
4-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130			
1,2-Dibromoethane (EDB)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
Dibromomethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
1,3-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,4-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
trans-1,4-Dichloro-2-butene	0.0191	0.0040	mg/Kg wet	0.0200		95.5	70-130			
Dichlorodifluoromethane (Freon 12)	0.0198	0.020	mg/Kg wet	0.0200		99.1	40-160			V-36 †
1,1-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
1,1-Dichloroethylene	0.0200	0.0040	mg/Kg wet	0.0200		100	70-130			
cis-1,2-Dichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
trans-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
2,2-Dichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1-Dichloropropene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
cis-1,3-Dichloropropene	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130			
trans-1,3-Dichloropropene	0.0219	0.0010	mg/Kg wet	0.0200		110	70-130			
Diethyl Ether	0.0219	0.020	mg/Kg wet	0.0200		110	70-130			
Diisopropyl Ether (DIPE)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
1,4-Dioxane	0.167	0.10	mg/Kg wet	0.200		83.5	40-160			†
Ethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Hexachlorobutadiene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-160			
2-Hexanone (MBK)	0.187	0.020	mg/Kg wet	0.200		93.7	70-160			†
Isopropylbenzene (Cumene)	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			
p-Isopropyltoluene (p-Cymene)	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
Methyl Acetate	0.0251	0.0020	mg/Kg wet	0.0200		126	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	0.0198	0.0040	mg/Kg wet	0.0200		98.9	70-130			
Methyl Cyclohexane	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130			
Methylene Chloride	0.0217	0.020	mg/Kg wet	0.0200		108	40-160			†
4-Methyl-2-pentanone (MIBK)	0.193	0.020	mg/Kg wet	0.200		96.7	70-160			†
Naphthalene	0.0200	0.0040	mg/Kg wet	0.0200		99.9	40-130			†
n-Propylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
Styrene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,1,2-Tetrachloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,2,2-Tetrachloroethane	0.0194	0.0010	mg/Kg wet	0.0200		96.9	70-130			
Tetrachloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Tetrahydrofuran	0.0227	0.010	mg/Kg wet	0.0200		114	70-130			
Toluene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2,3-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
1,2,4-Trichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3,5-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
1,1,1-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
1,1,2-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Trichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Trichlorofluoromethane (Freon 11)	0.0189	0.010	mg/Kg wet	0.0200		94.5	70-130			
1,2,3-Trichloropropane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273566 - SW-846 5035										
LCS (B273566-BS1)										
Prepared & Analyzed: 12/28/20										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0211	0.010	mg/Kg wet	0.0200		105	70-130			
1,2,4-Trimethylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130			
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
Vinyl Chloride	0.0223	0.010	mg/Kg wet	0.0200		111	40-130			†
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.8	70-130			
o-Xylene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0476		mg/Kg wet	0.0500		95.2	70-130			
Surrogate: Toluene-d8	0.0522		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0518		mg/Kg wet	0.0500		104	70-130			
LCS Dup (B273566-BSD1)										
Prepared & Analyzed: 12/28/20										
Acetone	0.178	0.10	mg/Kg wet	0.200		88.9	70-160	3.42	25	†
Acrylonitrile	0.0198	0.0060	mg/Kg wet	0.0200		99.2	70-130	0.903	25	
tert-Amyl Methyl Ether (TAME)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	8.13	25	
Benzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	0.371	25	
Bromobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	0.210	25	
Bromochloromethane	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	4.56	25	
Bromodichloromethane	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	0.523	25	
Bromoform	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	6.96	25	
Bromomethane	0.0222	0.010	mg/Kg wet	0.0200		111	40-130	0.270	25	†
2-Butanone (MEK)	0.204	0.040	mg/Kg wet	0.200		102	70-160	8.30	25	†
tert-Butyl Alcohol (TBA)	0.195	0.040	mg/Kg wet	0.200		97.4	40-130	5.27	25	†
n-Butylbenzene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130	6.26	25	
sec-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130	2.39	25	
tert-Butylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-160	6.60	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	4.35	25	
Carbon Disulfide	0.198	0.0060	mg/Kg wet	0.200		98.8	70-130	0.283	25	
Carbon Tetrachloride	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	0.738	25	
Chlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	2.29	25	
Chlorodibromomethane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130	1.61	25	
Chloroethane	0.0221	0.020	mg/Kg wet	0.0200		111	70-130	2.76	25	
Chloroform	0.0207	0.0040	mg/Kg wet	0.0200		103	70-130	5.06	25	
Chloromethane	0.0227	0.010	mg/Kg wet	0.0200		114	70-130	0.796	25	
2-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130	2.89	25	
4-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.69	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130	3.81	25	
1,2-Dibromoethane (EDB)	0.0200	0.0010	mg/Kg wet	0.0200		99.8	70-130	4.41	25	
Dibromomethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	2.14	25	
1,2-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130	4.35	25	
1,3-Dichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	3.07	25	
1,4-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130	4.67	25	
trans-1,4-Dichloro-2-butene	0.0172	0.0040	mg/Kg wet	0.0200		86.1	70-130	10.4	25	
Dichlorodifluoromethane (Freon 12)	0.0192	0.020	mg/Kg wet	0.0200		95.8	40-160	3.39	25	V-36 †
1,1-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	0.176	25	
1,2-Dichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	5.37	25	
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	0.398	25	
cis-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.49	25	
trans-1,2-Dichloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.30	25	
1,2-Dichloropropane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	7.22	25	
1,3-Dichloropropane	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130	0.664	25	
2,2-Dichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130	8.37	25	
1,1-Dichloropropene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	4.33	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273566 - SW-846 5035										
LCS Dup (B273566-BSD1)										
Prepared & Analyzed: 12/28/20										
cis-1,3-Dichloropropene	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130	0.762	25	
trans-1,3-Dichloropropene	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130	3.82	25	
Diethyl Ether	0.0211	0.020	mg/Kg wet	0.0200		106	70-130	3.53	25	
Diisopropyl Ether (DIPE)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	0.481	25	
1,4-Dioxane	0.236	0.10	mg/Kg wet	0.200		118	40-160	34.1	50	† ‡
Ethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.36	25	
Hexachlorobutadiene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-160	1.55	25	
2-Hexanone (MBK)	0.198	0.020	mg/Kg wet	0.200		98.8	70-160	5.31	25	†
Isopropylbenzene (Cumene)	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	3.46	25	
p-Isopropyltoluene (p-Cymene)	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130	4.00	25	
Methyl Acetate	0.0279	0.0020	mg/Kg wet	0.0200		139 *	70-130	10.4	25	L-07, V-20
Methyl tert-Butyl Ether (MTBE)	0.0203	0.0040	mg/Kg wet	0.0200		101	70-130	2.50	25	
Methyl Cyclohexane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	1.72	25	
Methylene Chloride	0.0214	0.020	mg/Kg wet	0.0200		107	40-160	1.30	25	†
4-Methyl-2-pentanone (MIBK)	0.195	0.020	mg/Kg wet	0.200		97.5	70-160	0.772	25	†
Naphthalene	0.0194	0.0040	mg/Kg wet	0.0200		97.0	40-130	2.95	25	†
n-Propylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	0.515	25	
Styrene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	3.89	25	
1,1,1,2-Tetrachloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	0.287	25	
1,1,2,2-Tetrachloroethane	0.0196	0.0010	mg/Kg wet	0.0200		98.2	70-130	1.33	25	
Tetrachloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	6.37	25	
Tetrahydrofuran	0.0219	0.010	mg/Kg wet	0.0200		109	70-130	3.77	25	
Toluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.48	25	
1,2,3-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130	0.412	25	
1,2,4-Trichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130	5.13	25	
1,3,5-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130	1.43	25	
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	5.76	25	
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	2.32	25	
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	4.72	25	
Trichlorofluoromethane (Freon 11)	0.0196	0.010	mg/Kg wet	0.0200		98.2	70-130	3.84	25	
1,2,3-Trichloropropane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	20.4	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0210	0.010	mg/Kg wet	0.0200		105	70-130	0.0950	25	
1,2,4-Trimethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130	2.87	25	
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	1.46	25	
Vinyl Chloride	0.0230	0.010	mg/Kg wet	0.0200		115	40-130	3.44	25	†
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.6	70-130	0.201	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	4.22	25	
Surrogate: 1,2-Dichloroethane-d4	0.0477		mg/Kg wet	0.0500		95.4	70-130			
Surrogate: Toluene-d8	0.0515		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/Kg wet	0.0500		100	70-130			

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273559 - SW-846 3546
Blank (B273559-BLK1)

Prepared: 12/26/20 Analyzed: 12/29/20

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							V-04, V-05, V-35
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							V-06
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273559 - SW-846 3546

Blank (B273559-BLK1)

Prepared: 12/26/20 Analyzed: 12/29/20

2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	6.77		mg/Kg wet	6.67		102	30-130			
Surrogate: Phenol-d6	7.42		mg/Kg wet	6.67		111	30-130			
Surrogate: Nitrobenzene-d5	2.83		mg/Kg wet	3.33		84.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.01		mg/Kg wet	3.33		90.4	30-130			
Surrogate: 2,4,6-Tribromophenol	4.51		mg/Kg wet	4.67		96.6	30-130			
Surrogate: p-Terphenyl-d14	3.31		mg/Kg wet	3.33		99.4	30-130			

LCS (B273559-BS1)

Prepared: 12/26/20 Analyzed: 12/29/20

Acenaphthene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140			
Acenaphthylene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140			
Acetophenone	1.42	0.34	mg/Kg wet	1.67		85.2	40-140			
Aniline	1.07	0.34	mg/Kg wet	1.67		64.4	10-140			†
Anthracene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140			
Benzidine	1.49	0.66	mg/Kg wet	1.67		89.7	40-140			V-04, V-05, V-35
Benzo(a)anthracene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140			
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140			
Benzo(b)fluoranthene	1.41	0.17	mg/Kg wet	1.67		84.4	40-140			
Benzo(g,h,i)perylene	1.48	0.17	mg/Kg wet	1.67		89.0	40-140			
Benzo(k)fluoranthene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140			
Benzoic Acid	1.01	1.0	mg/Kg wet	1.67		60.4	30-130			V-06
Bis(2-chloroethoxy)methane	1.31	0.34	mg/Kg wet	1.67		78.6	40-140			
Bis(2-chloroethyl)ether	1.33	0.34	mg/Kg wet	1.67		79.7	40-140			
Bis(2-chloroisopropyl)ether	1.48	0.34	mg/Kg wet	1.67		88.8	40-140			
Bis(2-Ethylhexyl)phthalate	1.51	0.34	mg/Kg wet	1.67		90.4	40-140			
4-Bromophenylphenylether	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
Butylbenzylphthalate	1.39	0.34	mg/Kg wet	1.67		83.4	40-140			
Carbazole	1.40	0.17	mg/Kg wet	1.67		84.1	40-140			
4-Chloroaniline	0.923	0.66	mg/Kg wet	1.67		55.4	10-140			V-34 †
4-Chloro-3-methylphenol	1.39	0.66	mg/Kg wet	1.67		83.5	30-130			
2-Chloronaphthalene	1.22	0.34	mg/Kg wet	1.67		73.0	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273559 - SW-846 3546										
LCS (B273559-BS1)										
					Prepared: 12/26/20 Analyzed: 12/29/20					
2-Chlorophenol	1.34	0.34	mg/Kg wet	1.67		80.7	30-130			
4-Chlorophenylphenylether	1.32	0.34	mg/Kg wet	1.67		79.0	40-140			
Chrysene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140			
Dibenz(a,h)anthracene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140			
Dibenzofuran	1.37	0.34	mg/Kg wet	1.67		82.4	40-140			
Di-n-butylphthalate	1.43	0.34	mg/Kg wet	1.67		85.8	40-140			
1,2-Dichlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.3	40-140			
1,3-Dichlorobenzene	1.13	0.34	mg/Kg wet	1.67		68.0	40-140			
1,4-Dichlorobenzene	1.17	0.34	mg/Kg wet	1.67		70.2	40-140			
3,3-Dichlorobenzidine	1.10	0.17	mg/Kg wet	1.67		66.1	20-140			†
2,4-Dichlorophenol	1.33	0.34	mg/Kg wet	1.67		79.5	30-130			
Diethylphthalate	1.39	0.34	mg/Kg wet	1.67		83.5	40-140			
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.5	30-130			
Dimethylphthalate	1.37	0.34	mg/Kg wet	1.67		82.0	40-140			
4,6-Dinitro-2-methylphenol	1.18	0.34	mg/Kg wet	1.67		70.6	30-130			
2,4-Dinitrophenol	0.953	0.66	mg/Kg wet	1.67		57.2	30-130			
2,4-Dinitrotoluene	1.47	0.34	mg/Kg wet	1.67		88.3	40-140			
2,6-Dinitrotoluene	1.44	0.34	mg/Kg wet	1.67		86.5	40-140			
Di-n-octylphthalate	1.50	0.34	mg/Kg wet	1.67		90.1	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.49	0.34	mg/Kg wet	1.67		89.6	40-140			
Fluoranthene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140			
Fluorene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140			
Hexachlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.7	40-140			
Hexachlorobutadiene	1.23	0.34	mg/Kg wet	1.67		73.9	40-140			
Hexachlorocyclopentadiene	1.02	0.34	mg/Kg wet	1.67		61.4	40-140			
Hexachloroethane	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
Indeno(1,2,3-cd)pyrene	1.59	0.17	mg/Kg wet	1.67		95.4	40-140			
Isophorone	1.42	0.34	mg/Kg wet	1.67		85.5	40-140			
1-Methylnaphthalene	1.27	0.17	mg/Kg wet	1.67		76.5	40-140			
2-Methylnaphthalene	1.43	0.17	mg/Kg wet	1.67		85.9	40-140			
2-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.2	30-130			
3/4-Methylphenol	1.49	0.34	mg/Kg wet	1.67		89.2	30-130			
Naphthalene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140			
2-Nitroaniline	1.47	0.34	mg/Kg wet	1.67		88.3	40-140			
3-Nitroaniline	1.27	0.34	mg/Kg wet	1.67		76.4	30-140			†
4-Nitroaniline	1.53	0.34	mg/Kg wet	1.67		92.0	40-140			
Nitrobenzene	1.36	0.34	mg/Kg wet	1.67		81.7	40-140			
2-Nitrophenol	1.33	0.34	mg/Kg wet	1.67		79.6	30-130			
4-Nitrophenol	1.55	0.66	mg/Kg wet	1.67		92.8	30-130			
N-Nitrosodimethylamine	1.33	0.34	mg/Kg wet	1.67		79.5	40-140			
N-Nitrosodiphenylamine/Diphenylamine	1.38	0.34	mg/Kg wet	1.67		82.5	40-140			
N-Nitrosodi-n-propylamine	1.43	0.34	mg/Kg wet	1.67		85.6	40-140			
Pentachloronitrobenzene	1.51	0.34	mg/Kg wet	1.67		90.3	40-140			
Pentachlorophenol	1.13	0.34	mg/Kg wet	1.67		67.6	30-130			
Phenanthrene	1.44	0.17	mg/Kg wet	1.67		86.1	40-140			
Phenol	1.38	0.34	mg/Kg wet	1.67		83.1	30-130			
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.5	40-140			
Pyridine	0.829	0.34	mg/Kg wet	1.67		49.7	30-140			†
1,2,4,5-Tetrachlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.8	40-140			
1,2,4-Trichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.4	40-140			
2,4,5-Trichlorophenol	1.34	0.34	mg/Kg wet	1.67		80.1	30-130			
2,4,6-Trichlorophenol	1.32	0.34	mg/Kg wet	1.67		79.1	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273559 - SW-846 3546

LCS (B273559-BS1)

Prepared: 12/26/20 Analyzed: 12/29/20

Surrogate: 2-Fluorophenol	6.59		mg/Kg wet	6.67		98.9	30-130			
Surrogate: Phenol-d6	7.13		mg/Kg wet	6.67		107	30-130			
Surrogate: Nitrobenzene-d5	2.75		mg/Kg wet	3.33		82.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.02		mg/Kg wet	3.33		90.7	30-130			
Surrogate: 2,4,6-Tribromophenol	5.41		mg/Kg wet	4.67		116	30-130			
Surrogate: p-Terphenyl-d14	3.09		mg/Kg wet	3.33		92.8	30-130			

LCS Dup (B273559-BSD1)

Prepared: 12/26/20 Analyzed: 12/29/20

Acenaphthene	1.42	0.17	mg/Kg wet	1.67		85.3	40-140	1.80	30	
Acenaphthylene	1.44	0.17	mg/Kg wet	1.67		86.1	40-140	1.76	30	
Acetophenone	1.41	0.34	mg/Kg wet	1.67		84.6	40-140	0.777	30	
Aniline	1.05	0.34	mg/Kg wet	1.67		63.0	10-140	2.14	50	† ‡
Anthracene	1.47	0.17	mg/Kg wet	1.67		88.2	40-140	1.19	30	
Benzidine	1.49	0.66	mg/Kg wet	1.67		89.4	40-140	0.358	30	V-04, V-05, V-35
Benzo(a)anthracene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140	1.01	30	
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140	0.494	30	
Benzo(b)fluoranthene	1.45	0.17	mg/Kg wet	1.67		87.0	40-140	2.96	30	
Benzo(g,h,i)perylene	1.50	0.17	mg/Kg wet	1.67		89.8	40-140	0.873	30	
Benzo(k)fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.3	40-140	0.666	30	
Benzoic Acid	1.02	1.0	mg/Kg wet	1.67		61.4	30-130	1.71	50	V-06 ‡
Bis(2-chloroethoxy)methane	1.37	0.34	mg/Kg wet	1.67		82.1	40-140	4.38	30	
Bis(2-chloroethyl)ether	1.31	0.34	mg/Kg wet	1.67		78.3	40-140	1.75	30	
Bis(2-chloroisopropyl)ether	1.49	0.34	mg/Kg wet	1.67		89.4	40-140	0.696	30	
Bis(2-Ethylhexyl)phthalate	1.52	0.34	mg/Kg wet	1.67		90.9	40-140	0.596	30	
4-Bromophenylphenylether	1.28	0.34	mg/Kg wet	1.67		76.9	40-140	1.84	30	
Butylbenzylphthalate	1.43	0.34	mg/Kg wet	1.67		85.8	40-140	2.86	30	
Carbazole	1.40	0.17	mg/Kg wet	1.67		84.3	40-140	0.214	30	
4-Chloroaniline	0.911	0.66	mg/Kg wet	1.67		54.6	10-140	1.35	30	V-34 †
4-Chloro-3-methylphenol	1.38	0.66	mg/Kg wet	1.67		82.9	30-130	0.673	30	
2-Chloronaphthalene	1.29	0.34	mg/Kg wet	1.67		77.2	40-140	5.57	30	
2-Chlorophenol	1.32	0.34	mg/Kg wet	1.67		79.2	30-130	1.88	30	
4-Chlorophenylphenylether	1.31	0.34	mg/Kg wet	1.67		78.8	40-140	0.279	30	
Chrysene	1.38	0.17	mg/Kg wet	1.67		82.9	40-140	3.14	30	
Dibenz(a,h)anthracene	1.45	0.17	mg/Kg wet	1.67		87.3	40-140	2.22	30	
Dibenzofuran	1.37	0.34	mg/Kg wet	1.67		82.2	40-140	0.292	30	
Di-n-butylphthalate	1.42	0.34	mg/Kg wet	1.67		85.0	40-140	0.937	30	
1,2-Dichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.0	40-140	2.36	30	
1,3-Dichlorobenzene	1.17	0.34	mg/Kg wet	1.67		70.0	40-140	2.84	30	
1,4-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.8	40-140	2.20	30	
3,3-Dichlorobenzidine	1.10	0.17	mg/Kg wet	1.67		65.8	20-140	0.425	50	† ‡
2,4-Dichlorophenol	1.33	0.34	mg/Kg wet	1.67		79.5	30-130	0.0252	30	
Diethylphthalate	1.33	0.34	mg/Kg wet	1.67		80.0	40-140	4.35	30	
2,4-Dimethylphenol	1.38	0.34	mg/Kg wet	1.67		83.1	30-130	1.92	30	
Dimethylphthalate	1.34	0.34	mg/Kg wet	1.67		80.7	40-140	1.62	30	
4,6-Dinitro-2-methylphenol	1.18	0.34	mg/Kg wet	1.67		70.9	30-130	0.424	30	
2,4-Dinitrophenol	0.907	0.66	mg/Kg wet	1.67		54.4	30-130	4.91	30	
2,4-Dinitrotoluene	1.43	0.34	mg/Kg wet	1.67		85.8	40-140	2.85	30	
2,6-Dinitrotoluene	1.42	0.34	mg/Kg wet	1.67		85.2	40-140	1.54	30	
Di-n-octylphthalate	1.51	0.34	mg/Kg wet	1.67		90.5	40-140	0.443	30	
1,2-Diphenylhydrazine/Azobenzene	1.55	0.34	mg/Kg wet	1.67		93.2	40-140	3.92	30	
Fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140	1.78	30	
Fluorene	1.42	0.17	mg/Kg wet	1.67		85.5	40-140	1.26	30	

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273559 - SW-846 3546										
LCS Dup (B273559-BSD1)										
					Prepared: 12/26/20 Analyzed: 12/29/20					
Hexachlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.9	40-140	0.269	30	
Hexachlorobutadiene	1.30	0.34	mg/Kg wet	1.67		78.1	40-140	5.55	30	
Hexachlorocyclopentadiene	1.05	0.34	mg/Kg wet	1.67		63.2	40-140	2.89	30	
Hexachloroethane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	3.03	30	
Indeno(1,2,3-cd)pyrene	1.61	0.17	mg/Kg wet	1.67		96.7	40-140	1.44	30	
Isophorone	1.47	0.34	mg/Kg wet	1.67		88.4	40-140	3.36	30	
1-Methylnaphthalene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	1.99	30	
2-Methylnaphthalene	1.46	0.17	mg/Kg wet	1.67		87.7	40-140	2.03	30	
2-Methylphenol	1.42	0.34	mg/Kg wet	1.67		85.4	30-130	2.59	30	
3/4-Methylphenol	1.52	0.34	mg/Kg wet	1.67		91.0	30-130	2.00	30	
Naphthalene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140	2.14	30	
2-Nitroaniline	1.46	0.34	mg/Kg wet	1.67		87.3	40-140	1.09	30	
3-Nitroaniline	1.23	0.34	mg/Kg wet	1.67		73.6	30-140	3.73	30	†
4-Nitroaniline	1.44	0.34	mg/Kg wet	1.67		86.1	40-140	6.58	30	
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	2.11	30	
2-Nitrophenol	1.38	0.34	mg/Kg wet	1.67		83.0	30-130	4.23	30	
4-Nitrophenol	1.47	0.66	mg/Kg wet	1.67		88.2	30-130	5.11	50	‡
N-Nitrosodimethylamine	1.36	0.34	mg/Kg wet	1.67		81.5	40-140	2.41	30	
N-Nitrosodiphenylamine/Diphenylamine	1.41	0.34	mg/Kg wet	1.67		84.6	40-140	2.49	30	
N-Nitrosodi-n-propylamine	1.41	0.34	mg/Kg wet	1.67		84.5	40-140	1.32	30	
Pentachloronitrobenzene	1.51	0.34	mg/Kg wet	1.67		90.3	40-140	0.00	30	
Pentachlorophenol	1.10	0.34	mg/Kg wet	1.67		65.8	30-130	2.76	30	
Phenanthrene	1.44	0.17	mg/Kg wet	1.67		86.1	40-140	0.00	30	
Phenol	1.42	0.34	mg/Kg wet	1.67		85.3	30-130	2.68	30	
Pyrene	1.39	0.17	mg/Kg wet	1.67		83.6	40-140	5.03	30	
Pyridine	0.802	0.34	mg/Kg wet	1.67		48.1	30-140	3.31	30	†
1,2,4,5-Tetrachlorobenzene	1.32	0.34	mg/Kg wet	1.67		79.3	40-140	3.31	30	
1,2,4-Trichlorobenzene	1.23	0.34	mg/Kg wet	1.67		74.1	40-140	2.24	30	
2,4,5-Trichlorophenol	1.32	0.34	mg/Kg wet	1.67		79.3	30-130	1.03	30	
2,4,6-Trichlorophenol	1.35	0.34	mg/Kg wet	1.67		81.2	30-130	2.65	30	
Surrogate: 2-Fluorophenol	6.60		mg/Kg wet	6.67		99.0	30-130			
Surrogate: Phenol-d6	7.11		mg/Kg wet	6.67		107	30-130			
Surrogate: Nitrobenzene-d5	2.81		mg/Kg wet	3.33		84.4	30-130			
Surrogate: 2-Fluorobiphenyl	3.14		mg/Kg wet	3.33		94.2	30-130			
Surrogate: 2,4,6-Tribromophenol	5.14		mg/Kg wet	4.67		110	30-130			
Surrogate: p-Terphenyl-d14	3.19		mg/Kg wet	3.33		95.7	30-130			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273517 - SW-846 3546

Blank (B273517-BLK1)

Prepared: 12/24/20 Analyzed: 12/28/20

C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	3.77		mg/Kg wet	5.00		75.4	40-140			
Surrogate: o-Terphenyl (OTP)	4.91		mg/Kg wet	5.00		98.3	40-140			
Surrogate: 2-Bromonaphthalene	5.43		mg/Kg wet	5.00		109	40-140			
Surrogate: 2-Fluorobiphenyl	5.87		mg/Kg wet	5.00		117	40-140			

LCS (B273517-BS1)

Prepared: 12/24/20 Analyzed: 12/28/20

C9-C18 Aliphatics	22.7	10	mg/Kg wet	30.0		75.5	40-140			
C19-C36 Aliphatics	38.2	10	mg/Kg wet	40.0		95.5	40-140			
Unadjusted C11-C22 Aromatics	79.8	10	mg/Kg wet	85.0		93.9	40-140			
Acenaphthene	4.24	0.10	mg/Kg wet	5.00		84.8	40-140			
Acenaphthylene	3.99	0.10	mg/Kg wet	5.00		79.9	40-140			
Anthracene	4.75	0.10	mg/Kg wet	5.00		94.9	40-140			
Benzo(a)anthracene	5.03	0.10	mg/Kg wet	5.00		101	40-140			
Benzo(a)pyrene	4.70	0.10	mg/Kg wet	5.00		93.9	40-140			
Benzo(b)fluoranthene	5.26	0.10	mg/Kg wet	5.00		105	40-140			
Benzo(g,h,i)perylene	4.17	0.10	mg/Kg wet	5.00		83.5	40-140			
Benzo(k)fluoranthene	3.93	0.10	mg/Kg wet	5.00		78.7	40-140			
Chrysene	4.83	0.10	mg/Kg wet	5.00		96.6	40-140			
Dibenz(a,h)anthracene	4.51	0.10	mg/Kg wet	5.00		90.2	40-140			
Fluoranthene	4.86	0.10	mg/Kg wet	5.00		97.2	40-140			
Fluorene	4.53	0.10	mg/Kg wet	5.00		90.5	40-140			
Indeno(1,2,3-cd)pyrene	4.22	0.10	mg/Kg wet	5.00		84.3	40-140			
2-Methylnaphthalene	3.77	0.10	mg/Kg wet	5.00		75.4	40-140			
Naphthalene	3.47	0.10	mg/Kg wet	5.00		69.5	40-140			
Phenanthrene	4.84	0.10	mg/Kg wet	5.00		96.9	40-140			
Pyrene	4.91	0.10	mg/Kg wet	5.00		98.1	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	4.03		mg/Kg wet	5.00		80.6	40-140			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273517 - SW-846 3546										
LCS (B273517-BS1)					Prepared: 12/24/20 Analyzed: 12/28/20					
Surrogate: o-Terphenyl (OTP)	5.02		mg/Kg wet	5.00		100	40-140			
Surrogate: 2-Bromonaphthalene	5.31		mg/Kg wet	5.00		106	40-140			
Surrogate: 2-Fluorobiphenyl	5.65		mg/Kg wet	5.00		113	40-140			
LCS Dup (B273517-BSD1)					Prepared: 12/24/20 Analyzed: 12/28/20					
C9-C18 Aliphatics	23.2	10	mg/Kg wet	30.0		77.4	40-140	2.44	25	
C19-C36 Aliphatics	38.8	10	mg/Kg wet	40.0		96.9	40-140	1.50	25	
Unadjusted C11-C22 Aromatics	82.4	10	mg/Kg wet	85.0		96.9	40-140	3.10	25	
Acenaphthene	4.42	0.10	mg/Kg wet	5.00		88.4	40-140	4.09	25	
Acenaphthylene	4.18	0.10	mg/Kg wet	5.00		83.5	40-140	4.48	25	
Anthracene	4.89	0.10	mg/Kg wet	5.00		97.7	40-140	2.88	25	
Benzo(a)anthracene	5.20	0.10	mg/Kg wet	5.00		104	40-140	3.14	25	
Benzo(a)pyrene	4.85	0.10	mg/Kg wet	5.00		97.1	40-140	3.27	25	
Benzo(b)fluoranthene	5.42	0.10	mg/Kg wet	5.00		108	40-140	2.93	25	
Benzo(g,h,i)perylene	4.32	0.10	mg/Kg wet	5.00		86.5	40-140	3.52	25	
Benzo(k)fluoranthene	4.07	0.10	mg/Kg wet	5.00		81.4	40-140	3.38	25	
Chrysene	4.99	0.10	mg/Kg wet	5.00		99.8	40-140	3.26	25	
Dibenz(a,h)anthracene	4.65	0.10	mg/Kg wet	5.00		93.0	40-140	3.13	25	
Fluoranthene	5.00	0.10	mg/Kg wet	5.00		100	40-140	2.88	25	
Fluorene	4.70	0.10	mg/Kg wet	5.00		93.9	40-140	3.69	25	
Indeno(1,2,3-cd)pyrene	4.35	0.10	mg/Kg wet	5.00		87.1	40-140	3.19	25	
2-Methylnaphthalene	3.94	0.10	mg/Kg wet	5.00		78.8	40-140	4.45	25	
Naphthalene	3.64	0.10	mg/Kg wet	5.00		72.7	40-140	4.57	25	
Phenanthrene	5.00	0.10	mg/Kg wet	5.00		100	40-140	3.17	25	
Pyrene	5.06	0.10	mg/Kg wet	5.00		101	40-140	3.01	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	4.02		mg/Kg wet	5.00		80.4	40-140			
Surrogate: o-Terphenyl (OTP)	5.07		mg/Kg wet	5.00		101	40-140			
Surrogate: 2-Bromonaphthalene	5.54		mg/Kg wet	5.00		111	40-140			
Surrogate: 2-Fluorobiphenyl	5.85		mg/Kg wet	5.00		117	40-140			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP EPH rev 2.1 in Soil	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
MADEP EPH rev 2.1 in Water	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Diethyl Ether	ME
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Soil</i>	
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NY,NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Soil	
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2021
ME	State of Maine	MA00100	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

20101013



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@con-test-labs.com

Address: 535 Stone Valley Lane
Shore Environmental
Phone: 802-224-5378
Long Falls, Vermont
Project Location: 161 Wellington Rd, Brattleboro, VT
Project Number: 19-015
Project Manager: Lee Busby

Can Test Order Number:

Invoice Number: 578

Sampled By: SYR

Con Test Work Order

7 Day	10-Day	1-Day	2-Day	Field Filtered Lab to Lab	Field Filtered Lab to Filter	Formal	Other	10-Day Use Date	1-Day	2-Day	Field Filtered Lab to Filter	Field Filtered Lab to Lab	Formal	Other
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Client Sample ID / Description: 1 1P25-5A1 2 1P25-5A1-FD 3 trip blank</p>														
<p>Beginning Date/Time: 12/12/10 1530 12/12/10 1530 12/12/10 1600</p>														
<p>Ending Date/Time: 12/12/10 1530 12/12/10 1530 12/12/10 1600</p>														
<p>Container: G G G</p>														
<p>Matrix Code: S S S</p>														
<p>Conc Code: L L L</p>														
<p>Vials: 3 3 1</p>														
<p>GLASS: 1 1 1</p>														
<p>PLASTIC: 1 1 1</p>														
<p>Field Filtered Lab to Filter: 1 1 1</p>														
<p>Field Filtered Lab to Lab: 1 1 1</p>														
<p>Formal: 1 1 1</p>														
<p>Other: 1 1 1</p>														
<p>Client Comments: 9:50am</p>														
<p>Received by (signature): Paul Busby Date/Time: 12/12/10 1535</p>														
<p>Received by (signature): [Signature] Date/Time: 12/13/10 06:00</p>														
<p>Received by (signature): [Signature] Date/Time: 12/24/10 10:10</p>														
<p>Received by (signature): [Signature] Date/Time: 12/29/10 11:30</p>														
<p>Received by (signature): [Signature] Date/Time: 12/29/10 11:30</p>														
<p>Received by (signature): [Signature] Date/Time: 12/29/10 11:30</p>														
<p>Received by (signature): [Signature] Date/Time: 12/29/10 11:30</p>														
<p>Project Entry: Municipality: 21 J City: Brattleboro</p>														
<p>Project Entry: WRE: School MBIA: MBIA</p>														
<p>Project Entry: WRIA: WRIA</p>														
<p>Project Entry: Other: Chomazaram AIPA-CAP, LLC</p>														
<p>PSB ONLY: School New Student</p>														

ANALYSIS REQUESTED

Preservation Code	Matrix Codes:	Preservation Codes:
Total Number Of:	GW = Ground Water WW = Waste Water DW = Drinking Water A = A1 S = Sol SL = Sludge SDL = Solid O = Other (please define)	1 = Ice H = Hot M = Methane N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide T = Sodium Hydroxide I = Insulate Q = Other (please define)
VIALS	Glassware in the fridge? Y/N	
GLASS	Glassware in freezer? Y/N	
PLASTIC	Prepackaged Cooler? Y/N	
BACTERIA	Content is not responsible for missing samples from prepackaged coolers	
ENCLOSURE		

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Log in Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Stone Env.

Received By [Signature] Date 12/24/20 Time 1130

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 2.9
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? n/a

Proper Media/Containers Used? T

Were trip blanks received? [Signature]

Do all samples have the proper pH? [Signature]

Who was notified? _____
Who was notified? _____
Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? IT

Acid n/a Base n/a

Media	Containers	Media	Containers	Media	Containers
Unp-	1 Liter Amb.	1 Liter Plastic	16 oz Amb.		
HCL-	500 mL Amb.	500 mL Plastic	8oz Amb/Clear		2
Meoh-	250 mL Amb.	250 mL Plastic	4oz Amb/Clear		
Bisulfate-	Flashpoint	Col./Bacteria	2oz Amb/Clear		
DI-	Other Glass	Other Plastic	Encore		
Thiosulfate-	SOC Kit	Plastic Bag	Frozen:		
Sulfuric-	Perchlorate	Ziplock			

Unused Media

Media	Containers	Media	Containers	Media	Containers
Unp-	1 Liter Amb.	1 Liter Plastic	16 oz Amb.		
HCL-	500 mL Amb.	500 mL Plastic	8oz Amb/Clear		
Meoh-	250 mL Amb.	250 mL Plastic	4oz Amb/Clear		
Bisulfate-	Col./Bacteria	Flashpoint	2oz Amb/Clear		
DI-	Other Plastic	Other Glass	Encore		
Thiosulfate-	SOC Kit	Plastic Bag	Frozen:		
Sulfuric-	Perchlorate	Ziplock			

Comments:

January 13, 2021

Lee Rosberg
Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602

Project Location: Brattleboro, VT
Client Job Number:
Project Number: 19-015
Laboratory Work Order Number: 21A0106

Enclosed are results of analyses for samples received by the laboratory on January 6, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	6
21A0106-01	6
21A0106-02	11
21A0106-03	16
21A0106-04	21
Sample Preparation Information	23
QC Data	24
Volatile Organic Compounds by GC/MS	24
B274089	24
Semivolatile Organic Compounds by GC/MS	29
B274015	29
Petroleum Hydrocarbons Analyses - EPH	34
B274256	34
Flag/Qualifier Summary	36
Certifications	37
Chain of Custody/Sample Receipt	42



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602
ATTN: Lee Rosberg

REPORT DATE: 1/13/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 19-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21A0106

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brattleboro, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IP-01D	21A0106-01	Ground Water		MADEP EPH rev 2.1 SW-846 8260C-D SW-846 8270D-E	
IP-03D	21A0106-02	Ground Water		MADEP EPH rev 2.1 SW-846 8260C-D SW-846 8270D-E	
IP-03D-FD	21A0106-03	Ground Water		MADEP EPH rev 2.1 SW-846 8260C-D SW-846 8270D-E	
TB-010621	21A0106-04	Trip Blank Water		SW-846 8260C-D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260C-D**Qualifications:****V-20**

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Vinyl Chloride**

B274089-BS1, B274089-BSD1, S056015-CCV1

SW-846 8270D-E**Qualifications:****R-05**

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Benzidine**

21A0106-01[IP-01D], 21A0106-02[IP-03D], 21A0106-03[IP-03D-FD], B274015-BLK1, B274015-BS1, B274015-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Benzidine**

21A0106-01[IP-01D], 21A0106-02[IP-03D], 21A0106-03[IP-03D-FD], B274015-BLK1, B274015-BS1, B274015-BSD1, S055995-CCV1, S056032-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Benzidine**

21A0106-01[IP-01D], 21A0106-02[IP-03D], 21A0106-03[IP-03D-FD], B274015-BLK1, B274015-BS1, B274015-BSD1, S055995-CCV1, S056032-CCV1

Hexachlorocyclopentadiene

21A0106-01[IP-01D], 21A0106-02[IP-03D], 21A0106-03[IP-03D-FD], B274015-BLK1, B274015-BS1, B274015-BSD1, S055995-CCV1, S056032-CCV1

Pentachlorophenol

21A0106-01[IP-01D], 21A0106-02[IP-03D], 21A0106-03[IP-03D-FD], B274015-BLK1, B274015-BS1, B274015-BSD1, S055995-CCV1, S056032-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

21A0106-01[IP-01D], 21A0106-02[IP-03D], 21A0106-03[IP-03D-FD], B274015-BLK1, B274015-BS1, B274015-BSD1, S054109-ICV1, S055995-CCV1, S056032-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**2-Nitroaniline**

21A0106-01[IP-01D], 21A0106-02[IP-03D], 21A0106-03[IP-03D-FD], B274015-BLK1, B274015-BS1, B274015-BSD1, S054109-ICV1, S055995-CCV1, S056032-CCV1

Bis(2-chloroisopropyl)ether

21A0106-01[IP-01D], 21A0106-02[IP-03D], 21A0106-03[IP-03D-FD], B274015-BLK1, B274015-BS1, B274015-BSD1, S054109-ICV1, S055995-CCV1, S056032-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-01D

Sampled: 1/5/2021 14:30

Sample ID: 21A0106-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-01D

Sampled: 1/5/2021 14:30

Sample ID: 21A0106-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2,3-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 12:20	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	95.3	70-130						1/7/21 12:20	
Toluene-d8	98.8	70-130						1/7/21 12:20	
4-Bromofluorobenzene	101	70-130						1/7/21 12:20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-01D

Sampled: 1/5/2021 14:30

Sample ID: 21A0106-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Acenaphthylene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Acetophenone	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Aniline	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Anthracene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Benzidine	ND	20	µg/L	1	R-05, V-04, V-05	SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Benzo(a)anthracene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Benzo(a)pyrene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Benzo(b)fluoranthene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Benzo(g,h,i)perylene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Benzo(k)fluoranthene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Benzoic Acid	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Bis(2-chloroethoxy)methane	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Bis(2-chloroethyl)ether	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Bis(2-chloroisopropyl)ether	ND	9.8	µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Bis(2-Ethylhexyl)phthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
4-Bromophenylphenylether	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Butylbenzylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Carbazole	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
4-Chloroaniline	ND	9.8	µg/L	1	V-34	SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
4-Chloro-3-methylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2-Chloronaphthalene	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2-Chlorophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
4-Chlorophenylphenylether	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Chrysene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Dibenz(a,h)anthracene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Dibenzofuran	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Di-n-butylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
1,2-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
1,3-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
1,4-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
3,3-Dichlorobenzidine	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2,4-Dichlorophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Diethylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2,4-Dimethylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Dimethylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
4,6-Dinitro-2-methylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2,4-Dinitrophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2,4-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2,6-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Di-n-octylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Fluoranthene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Fluorene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-01D

Sampled: 1/5/2021 14:30

Sample ID: 21A0106-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Hexachlorobutadiene	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Hexachlorocyclopentadiene	ND	9.8	µg/L	1	V-05	SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Hexachloroethane	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Indeno(1,2,3-cd)pyrene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Isophorone	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
1-Methylnaphthalene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2-Methylnaphthalene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2-Methylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
3/4-Methylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Naphthalene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2-Nitroaniline	ND	9.8	µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
3-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
4-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Nitrobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
4-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
N-Nitrosodimethylamine	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
N-Nitrosodi-n-propylamine	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Pentachloronitrobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Pentachlorophenol	ND	9.8	µg/L	1	V-05	SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Phenanthrene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Phenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Pyrene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
Pyridine	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
1,2,4,5-Tetrachlorobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
1,2,4-Trichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2,4,5-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR
2,4,6-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:04	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	55.7	15-110	
Phenol-d6	40.0	15-110	
Nitrobenzene-d5	82.9	30-130	
2-Fluorobiphenyl	90.6	30-130	
2,4,6-Tribromophenol	102	15-110	
p-Terphenyl-d14	98.9	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-01D

Sampled: 1/5/2021 14:30

Sample ID: 21A0106-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
C19-C36 Aliphatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Unadjusted C11-C22 Aromatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
C11-C22 Aromatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Acenaphthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Acenaphthylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Chrysene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Fluorene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Naphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Phenanthrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD
Pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 18:02	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Chlorooctadecane (COD)	69.8	40-140	
o-Terphenyl (OTP)	84.8	40-140	
2-Bromonaphthalene	96.3	40-140	
2-Fluorobiphenyl	98.3	40-140	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2,3-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:25	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.3	70-130	1/7/21 11:25
Toluene-d8	100	70-130	1/7/21 11:25
4-Bromofluorobenzene	99.6	70-130	1/7/21 11:25

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Acetophenone	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Aniline	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Benzidine	ND	20	µg/L	1	R-05, V-04, V-05	SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Benzoic Acid	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Chrysene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Fluorene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
1-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2-Nitroaniline	ND	10	µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
N-Nitrosodimethylamine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Pentachloronitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Pentachlorophenol	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:29	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	42.3	15-110	
Phenol-d6	31.8	15-110	
Nitrobenzene-d5	66.3	30-130	
2-Fluorobiphenyl	74.9	30-130	
2,4,6-Tribromophenol	84.8	15-110	
p-Terphenyl-d14	89.4	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
C19-C36 Aliphatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Unadjusted C11-C22 Aromatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
C11-C22 Aromatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Acenaphthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Acenaphthylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Chrysene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Fluorene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Naphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Phenanthrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD
Pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 0:46	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Chlorooctadecane (COD)	73.7	40-140	1/12/21 0:46
o-Terphenyl (OTP)	91.9	40-140	1/12/21 0:46
2-Bromonaphthalene	107	40-140	1/12/21 0:46
2-Fluorobiphenyl	108	40-140	1/12/21 0:46

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D-FD

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D-FD

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2,3-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 11:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.6	70-130	1/7/21 11:52
Toluene-d8	98.9	70-130	1/7/21 11:52
4-Bromofluorobenzene	100	70-130	1/7/21 11:52

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D-FD

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Acetophenone	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Aniline	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Benzidine	ND	20	µg/L	1	R-05, V-04, V-05	SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Benzoic Acid	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Chrysene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Fluorene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D-FD

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
1-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2-Nitroaniline	ND	10	µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
N-Nitrosodimethylamine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Pentachloronitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Pentachlorophenol	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/8/21 11:55	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	45.7	15-110	
Phenol-d6	33.8	15-110	
Nitrobenzene-d5	67.6	30-130	
2-Fluorobiphenyl	73.5	30-130	
2,4,6-Tribromophenol	78.6	15-110	
p-Terphenyl-d14	81.3	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: IP-03D-FD

Sampled: 1/5/2021 11:50

Sample ID: 21A0106-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	97	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
C19-C36 Aliphatics	ND	97	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Unadjusted C11-C22 Aromatics	ND	97	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
C11-C22 Aromatics	ND	97	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Acenaphthene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Acenaphthylene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Anthracene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Benzo(a)anthracene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Benzo(a)pyrene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Benzo(b)fluoranthene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Benzo(g,h,i)perylene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Benzo(k)fluoranthene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Chrysene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Dibenz(a,h)anthracene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Fluoranthene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Fluorene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Indeno(1,2,3-cd)pyrene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
2-Methylnaphthalene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Naphthalene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Phenanthrene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD
Pyrene	ND	1.9	µg/L	1		MADEP EPH rev 2.1	1/9/21	1/12/21 1:05	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Chlorooctadecane (COD)	73.1	40-140	
o-Terphenyl (OTP)	88.9	40-140	
2-Bromonaphthalene	103	40-140	
2-Fluorobiphenyl	103	40-140	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: TB-010621

Sampled: 1/6/2021 10:00

Sample ID: 21A0106-04

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0106

Date Received: 1/6/2021

Field Sample #: TB-010621

Sampled: 1/6/2021 10:00

Sample ID: 21A0106-04

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2,3-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/7/21	1/7/21 10:57	EEH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		94.9	70-130					1/7/21 10:57	
Toluene-d8		99.7	70-130					1/7/21 10:57	
4-Bromofluorobenzene		99.7	70-130					1/7/21 10:57	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3510C Analytical Method: MADEP EPH rev 2.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0106-01 [IP-01D]	B274256	1000	2.00	01/09/21
21A0106-02 [IP-03D]	B274256	1000	2.00	01/09/21
21A0106-03 [IP-03D-FD]	B274256	980	1.90	01/09/21

Prep Method: SW-846 5030B Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0106-01 [IP-01D]	B274089	5	5.00	01/07/21
21A0106-02 [IP-03D]	B274089	5	5.00	01/07/21
21A0106-03 [IP-03D-FD]	B274089	5	5.00	01/07/21
21A0106-04 [TB-010621]	B274089	5	5.00	01/07/21

Prep Method: SW-846 3510C Analytical Method: SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0106-01 [IP-01D]	B274015	1020	1.00	01/07/21
21A0106-02 [IP-03D]	B274015	1000	1.00	01/07/21
21A0106-03 [IP-03D-FD]	B274015	1000	1.00	01/07/21

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274089 - SW-846 5030B

Blank (B274089-BLK1)

Prepared & Analyzed: 01/07/21

Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274089 - SW-846 5030B

Blank (B274089-BLK1)

Prepared & Analyzed: 01/07/21

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,3-Trimethylbenzene	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.9		µg/L	25.0		95.5	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		µg/L	25.0		98.9	70-130			

LCS (B274089-BS1)

Prepared & Analyzed: 01/07/21

Acetone	94.7	50	µg/L	100		94.7	70-160			†
Acrylonitrile	9.44	5.0	µg/L	10.0		94.4	70-130			
tert-Amyl Methyl Ether (TAME)	9.79	0.50	µg/L	10.0		97.9	70-130			
Benzene	9.88	1.0	µg/L	10.0		98.8	70-130			
Bromobenzene	10.3	1.0	µg/L	10.0		103	70-130			
Bromochloromethane	9.44	1.0	µg/L	10.0		94.4	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	10.4	1.0	µg/L	10.0		104	70-130			
Bromomethane	9.48	2.0	µg/L	10.0		94.8	40-160			†
2-Butanone (MEK)	104	20	µg/L	100		104	40-160			†
tert-Butyl Alcohol (TBA)	103	20	µg/L	100		103	40-160			†
n-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.86	0.50	µg/L	10.0		98.6	70-130			
Carbon Disulfide	102	5.0	µg/L	100		102	70-130			
Carbon Tetrachloride	11.2	5.0	µg/L	10.0		112	70-130			
Chlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130			
Chloroethane	9.77	2.0	µg/L	10.0		97.7	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274089 - SW-846 5030B										
LCS (B274089-BS1)										
Prepared & Analyzed: 01/07/21										
Chloroform	9.86	2.0	µg/L	10.0		98.6	70-130			
Chloromethane	10.5	2.0	µg/L	10.0		105	40-160			†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130			
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.3	5.0	µg/L	10.0		103	70-130			
1,2-Dibromoethane (EDB)	9.77	0.50	µg/L	10.0		97.7	70-130			
Dibromomethane	9.72	1.0	µg/L	10.0		97.2	70-130			
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,4-Dichloro-2-butene	9.55	2.0	µg/L	10.0		95.5	70-130			
Dichlorodifluoromethane (Freon 12)	11.2	2.0	µg/L	10.0		112	40-160			†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloroethane	9.20	1.0	µg/L	10.0		92.0	70-130			
1,1-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dichloropropane	9.79	1.0	µg/L	10.0		97.9	70-130			
1,3-Dichloropropane	9.74	0.50	µg/L	10.0		97.4	70-130			
2,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	40-130			†
1,1-Dichloropropene	10.5	2.0	µg/L	10.0		105	70-130			
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130			
trans-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130			
Diethyl Ether	9.72	2.0	µg/L	10.0		97.2	70-130			
Diisopropyl Ether (DIPE)	9.60	0.50	µg/L	10.0		96.0	70-130			
1,4-Dioxane	108	50	µg/L	100		108	40-130			†
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Hexachlorobutadiene	10.6	0.60	µg/L	10.0		106	70-130			
2-Hexanone (MBK)	106	10	µg/L	100		106	70-160			†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107	70-130			
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0		106	70-130			
Methyl Acetate	9.97	1.0	µg/L	10.0		99.7	70-130			
Methyl tert-Butyl Ether (MTBE)	9.56	1.0	µg/L	10.0		95.6	70-130			
Methyl Cyclohexane	10.5	1.0	µg/L	10.0		105	70-130			
Methylene Chloride	9.32	5.0	µg/L	10.0		93.2	70-130			
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100		104	70-160			†
Naphthalene	10.0	2.0	µg/L	10.0		100	40-130			†
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
Styrene	10.7	1.0	µg/L	10.0		107	70-130			
1,1,1,2-Tetrachloroethane	11.3	1.0	µg/L	10.0		113	70-130			
1,1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130			
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
Tetrahydrofuran	9.35	10	µg/L	10.0		93.5	70-130			
Toluene	10.0	1.0	µg/L	10.0		100	70-130			
1,2,3-Trichlorobenzene	10.3	5.0	µg/L	10.0		103	70-130			
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,3,5-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,1,2-Trichloroethane	9.89	1.0	µg/L	10.0		98.9	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.0		108	70-130			
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274089 - SW-846 5030B										
LCS (B274089-BS1)										
Prepared & Analyzed: 01/07/21										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.0		112	70-130			
1,2,3-Trimethylbenzene	9.68	0.50	µg/L	10.0		96.8	70-130			
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
Vinyl Chloride	13.0	2.0	µg/L	10.0		130	40-160			V-20 †
m+p Xylene	21.1	2.0	µg/L	20.0		105	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.9		µg/L	25.0		95.6	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		101	70-130			
LCS Dup (B274089-BSD1)										
Prepared & Analyzed: 01/07/21										
Acetone	93.4	50	µg/L	100		93.4	70-160	1.38	25	†
Acrylonitrile	9.59	5.0	µg/L	10.0		95.9	70-130	1.58	25	
tert-Amyl Methyl Ether (TAME)	9.85	0.50	µg/L	10.0		98.5	70-130	0.611	25	
Benzene	9.61	1.0	µg/L	10.0		96.1	70-130	2.77	25	
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.771	25	
Bromochloromethane	9.49	1.0	µg/L	10.0		94.9	70-130	0.528	25	
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130	1.47	25	
Bromoform	11.0	1.0	µg/L	10.0		110	70-130	5.15	25	
Bromomethane	10.1	2.0	µg/L	10.0		101	40-160	6.73	25	†
2-Butanone (MEK)	104	20	µg/L	100		104	40-160	0.00	25	†
tert-Butyl Alcohol (TBA)	100	20	µg/L	100		100	40-160	2.78	25	†
n-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	0.285	25	
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	2.16	25	
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	3.72	25	
tert-Butyl Ethyl Ether (TBEE)	9.86	0.50	µg/L	10.0		98.6	70-130	0.00	25	
Carbon Disulfide	104	5.0	µg/L	100		104	70-130	2.44	25	
Carbon Tetrachloride	10.8	5.0	µg/L	10.0		108	70-130	3.65	25	
Chlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.764	25	
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111	70-130	3.87	25	
Chloroethane	9.73	2.0	µg/L	10.0		97.3	70-130	0.410	25	
Chloroform	9.83	2.0	µg/L	10.0		98.3	70-130	0.305	25	
Chloromethane	10.6	2.0	µg/L	10.0		106	40-160	1.42	25	†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	3.01	25	
4-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130	3.15	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.98	5.0	µg/L	10.0		99.8	70-130	3.25	25	
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130	6.92	25	
Dibromomethane	10.3	1.0	µg/L	10.0		103	70-130	5.41	25	
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.586	25	
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	0.873	25	
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	1.24	25	
trans-1,4-Dichloro-2-butene	9.56	2.0	µg/L	10.0		95.6	70-130	0.105	25	
Dichlorodifluoromethane (Freon 12)	11.2	2.0	µg/L	10.0		112	40-160	0.179	25	†
1,1-Dichloroethane	9.75	1.0	µg/L	10.0		97.5	70-130	4.02	25	
1,2-Dichloroethane	9.42	1.0	µg/L	10.0		94.2	70-130	2.36	25	
1,1-Dichloroethylene	9.72	1.0	µg/L	10.0		97.2	70-130	4.92	25	
cis-1,2-Dichloroethylene	9.83	1.0	µg/L	10.0		98.3	70-130	2.81	25	
trans-1,2-Dichloroethylene	9.14	1.0	µg/L	10.0		91.4	70-130	11.6	25	
1,2-Dichloropropane	9.88	1.0	µg/L	10.0		98.8	70-130	0.915	25	
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130	4.71	25	
2,2-Dichloropropane	9.82	1.0	µg/L	10.0		98.2	40-130	4.58	25	†

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274089 - SW-846 5030B										
LCS Dup (B274089-BSD1)										
Prepared & Analyzed: 01/07/21										
1,1-Dichloropropene	10.1	2.0	µg/L	10.0		101	70-130	3.70	25	
cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	0.793	25	
trans-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130	3.15	25	
Diethyl Ether	9.73	2.0	µg/L	10.0		97.3	70-130	0.103	25	
Diisopropyl Ether (DIPE)	9.86	0.50	µg/L	10.0		98.6	70-130	2.67	25	
1,4-Dioxane	99.0	50	µg/L	100		99.0	40-130	8.96	50	† ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	2.09	25	
Hexachlorobutadiene	9.90	0.60	µg/L	10.0		99.0	70-130	6.83	25	
2-Hexanone (MBK)	107	10	µg/L	100		107	70-160	1.50	25	†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106	70-130	0.843	25	
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105	70-130	0.951	25	
Methyl Acetate	11.7	1.0	µg/L	10.0		117	70-130	16.1	25	
Methyl tert-Butyl Ether (MTBE)	9.94	1.0	µg/L	10.0		99.4	70-130	3.90	25	
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104	70-130	0.954	25	
Methylene Chloride	9.29	5.0	µg/L	10.0		92.9	70-130	0.322	25	
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100		106	70-160	2.09	25	†
Naphthalene	10.2	2.0	µg/L	10.0		102	40-130	1.39	25	†
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130	0.00	25	
Styrene	10.5	1.0	µg/L	10.0		105	70-130	1.89	25	
1,1,1,2-Tetrachloroethane	11.3	1.0	µg/L	10.0		113	70-130	0.531	25	
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130	3.85	25	
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.87	25	
Tetrahydrofuran	9.75	10	µg/L	10.0		97.5	70-130	4.19	25	
Toluene	9.76	1.0	µg/L	10.0		97.6	70-130	2.43	25	
1,2,3-Trichlorobenzene	10.4	5.0	µg/L	10.0		104	70-130	0.387	25	
1,2,4-Trichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	1.73	25	
1,3,5-Trichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	1.05	25	
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130	5.11	25	
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	5.70	25	
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	1.19	25	
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.0		105	70-130	3.18	25	
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.0		105	70-130	3.19	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.0		108	70-130	4.00	25	
1,2,3-Trimethylbenzene	9.70	0.50	µg/L	10.0		97.0	70-130	0.206	25	
1,2,4-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	0.690	25	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	1.22	25	
Vinyl Chloride	12.9	2.0	µg/L	10.0		129	40-160	0.848	25	V-20 †
m+p Xylene	20.7	2.0	µg/L	20.0		103	70-130	2.01	25	
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130	2.00	25	
Surrogate: 1,2-Dichloroethane-d4	23.5		µg/L	25.0		93.9	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274015 - SW-846 3510C

Blank (B274015-BLK1)

Prepared & Analyzed: 01/07/21

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							R-05, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							V-35
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274015 - SW-846 3510C										
Blank (B274015-BLK1)										
Prepared & Analyzed: 01/07/21										
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							V-35
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							V-05
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	94.8		µg/L	200		47.4	15-110			
Surrogate: Phenol-d6	72.3		µg/L	200		36.2	15-110			
Surrogate: Nitrobenzene-d5	65.4		µg/L	100		65.4	30-130			
Surrogate: 2-Fluorobiphenyl	73.3		µg/L	100		73.3	30-130			
Surrogate: 2,4,6-Tribromophenol	118		µg/L	140		84.3	15-110			
Surrogate: p-Terphenyl-d14	90.5		µg/L	100		90.5	30-130			
LCS (B274015-BS1)										
Prepared & Analyzed: 01/07/21										
Acenaphthene	35.8	5.0	µg/L	50.0		71.6	40-140			
Acenaphthylene	38.4	5.0	µg/L	50.0		76.8	40-140			
Acetophenone	38.3	10	µg/L	50.0		76.6	40-140			
Aniline	42.5	5.0	µg/L	50.0		84.9	40-140			
Anthracene	40.6	5.0	µg/L	50.0		81.2	40-140			
Benzidine	57.3	20	µg/L	50.0		115	40-140			R-05, V-04, V-05
Benzo(a)anthracene	38.9	5.0	µg/L	50.0		77.9	40-140			
Benzo(a)pyrene	37.7	5.0	µg/L	50.0		75.4	40-140			
Benzo(b)fluoranthene	38.6	5.0	µg/L	50.0		77.2	40-140			
Benzo(g,h,i)perylene	41.1	5.0	µg/L	50.0		82.2	40-140			
Benzo(k)fluoranthene	38.8	5.0	µg/L	50.0		77.6	40-140			
Benzoic Acid	13.0	10	µg/L	50.0		26.0	10-130			†
Bis(2-chloroethoxy)methane	37.1	10	µg/L	50.0		74.2	40-140			
Bis(2-chloroethyl)ether	39.0	10	µg/L	50.0		78.1	40-140			
Bis(2-chloroisopropyl)ether	48.2	10	µg/L	50.0		96.3	40-140			V-35
Bis(2-Ethylhexyl)phthalate	38.5	10	µg/L	50.0		77.0	40-140			
4-Bromophenylphenylether	36.5	10	µg/L	50.0		73.0	40-140			
Butylbenzylphthalate	40.5	10	µg/L	50.0		81.0	40-140			
Carbazole	39.1	10	µg/L	50.0		78.2	40-140			
4-Chloroaniline	37.3	10	µg/L	50.0		74.6	40-140			V-34
4-Chloro-3-methylphenol	39.5	10	µg/L	50.0		79.1	30-130			
2-Chloronaphthalene	33.0	10	µg/L	50.0		66.1	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274015 - SW-846 3510C										
LCS (B274015-BS1)										
Prepared & Analyzed: 01/07/21										
2-Chlorophenol	33.3	10	µg/L	50.0		66.7	30-130			
4-Chlorophenylphenylether	36.5	10	µg/L	50.0		73.0	40-140			
Chrysene	37.8	5.0	µg/L	50.0		75.6	40-140			
Dibenz(a,h)anthracene	40.4	5.0	µg/L	50.0		80.7	40-140			
Dibenzofuran	38.4	5.0	µg/L	50.0		76.8	40-140			
Di-n-butylphthalate	38.4	10	µg/L	50.0		76.8	40-140			
1,2-Dichlorobenzene	28.2	5.0	µg/L	50.0		56.4	40-140			
1,3-Dichlorobenzene	26.6	5.0	µg/L	50.0		53.2	40-140			
1,4-Dichlorobenzene	27.0	5.0	µg/L	50.0		54.0	40-140			
3,3-Dichlorobenzidine	41.4	10	µg/L	50.0		82.8	40-140			
2,4-Dichlorophenol	35.1	10	µg/L	50.0		70.2	30-130			
Diethylphthalate	38.7	10	µg/L	50.0		77.4	40-140			
2,4-Dimethylphenol	33.5	10	µg/L	50.0		67.0	30-130			
Dimethylphthalate	38.6	10	µg/L	50.0		77.1	40-140			
4,6-Dinitro-2-methylphenol	36.1	10	µg/L	50.0		72.1	30-130			
2,4-Dinitrophenol	34.3	10	µg/L	50.0		68.6	30-130			
2,4-Dinitrotoluene	41.2	10	µg/L	50.0		82.4	40-140			
2,6-Dinitrotoluene	41.9	10	µg/L	50.0		83.8	40-140			
Di-n-octylphthalate	39.4	10	µg/L	50.0		78.7	40-140			
1,2-Diphenylhydrazine/Azobenzene	40.8	10	µg/L	50.0		81.5	40-140			
Fluoranthene	38.5	5.0	µg/L	50.0		77.1	40-140			
Fluorene	38.5	5.0	µg/L	50.0		77.1	40-140			
Hexachlorobenzene	37.4	10	µg/L	50.0		74.8	40-140			
Hexachlorobutadiene	28.0	10	µg/L	50.0		56.0	40-140			
Hexachlorocyclopentadiene	20.1	10	µg/L	50.0		40.3	30-140			V-05 †
Hexachloroethane	26.0	10	µg/L	50.0		51.9	40-140			
Indeno(1,2,3-cd)pyrene	40.4	5.0	µg/L	50.0		80.7	40-140			
Isophorone	41.0	10	µg/L	50.0		82.0	40-140			
1-Methylnaphthalene	33.6	5.0	µg/L	50.0		67.1	40-140			
2-Methylnaphthalene	38.1	5.0	µg/L	50.0		76.1	40-140			
2-Methylphenol	33.7	10	µg/L	50.0		67.5	30-130			
3/4-Methylphenol	33.3	10	µg/L	50.0		66.6	30-130			
Naphthalene	33.0	5.0	µg/L	50.0		66.1	40-140			
2-Nitroaniline	42.9	10	µg/L	50.0		85.7	40-140			V-35
3-Nitroaniline	39.7	10	µg/L	50.0		79.3	40-140			
4-Nitroaniline	38.5	10	µg/L	50.0		77.0	40-140			
Nitrobenzene	34.8	10	µg/L	50.0		69.7	40-140			
2-Nitrophenol	35.5	10	µg/L	50.0		70.9	30-130			
4-Nitrophenol	23.8	10	µg/L	50.0		47.5	10-130			†
N-Nitrosodimethylamine	22.7	10	µg/L	50.0		45.4	40-140			
N-Nitrosodiphenylamine/Diphenylamine	38.7	10	µg/L	50.0		77.5	40-140			
N-Nitrosodi-n-propylamine	39.4	10	µg/L	50.0		78.9	40-140			
Pentachloronitrobenzene	39.6	10	µg/L	50.0		79.3	40-140			
Pentachlorophenol	26.4	10	µg/L	50.0		52.9	30-130			V-05
Phenanthrene	39.9	5.0	µg/L	50.0		79.7	40-140			
Phenol	16.9	10	µg/L	50.0		33.8	20-130			†
Pyrene	41.0	5.0	µg/L	50.0		82.0	40-140			
Pyridine	17.1	5.0	µg/L	50.0		34.2	10-140			†
1,2,4,5-Tetrachlorobenzene	31.6	10	µg/L	50.0		63.2	40-140			
1,2,4-Trichlorobenzene	29.3	5.0	µg/L	50.0		58.6	40-140			
2,4,5-Trichlorophenol	37.2	10	µg/L	50.0		74.3	30-130			
2,4,6-Trichlorophenol	36.6	10	µg/L	50.0		73.2	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274015 - SW-846 3510C

LCS (B274015-BS1)

Prepared & Analyzed: 01/07/21

Surrogate: 2-Fluorophenol	101		µg/L	200		50.7	15-110			
Surrogate: Phenol-d6	79.3		µg/L	200		39.7	15-110			
Surrogate: Nitrobenzene-d5	71.9		µg/L	100		71.9	30-130			
Surrogate: 2-Fluorobiphenyl	81.8		µg/L	100		81.8	30-130			
Surrogate: 2,4,6-Tribromophenol	129		µg/L	140		92.2	15-110			
Surrogate: p-Terphenyl-d14	95.4		µg/L	100		95.4	30-130			

LCS Dup (B274015-BSD1)

Prepared & Analyzed: 01/07/21

Acenaphthene	35.4	5.0	µg/L	50.0		70.7	40-140	1.18	20	
Acenaphthylene	37.0	5.0	µg/L	50.0		74.0	40-140	3.69	20	
Acetophenone	38.0	10	µg/L	50.0		75.9	40-140	0.918	20	
Aniline	38.0	5.0	µg/L	50.0		76.0	40-140	11.2	50	‡
Anthracene	39.9	5.0	µg/L	50.0		79.7	40-140	1.84	20	
Benzidine	46.2	20	µg/L	50.0		92.5	40-140	21.3 *	20	R-05, V-04, V-05
Benzo(a)anthracene	38.6	5.0	µg/L	50.0		77.1	40-140	0.929	20	
Benzo(a)pyrene	36.5	5.0	µg/L	50.0		73.0	40-140	3.18	20	
Benzo(b)fluoranthene	37.9	5.0	µg/L	50.0		75.7	40-140	1.88	20	
Benzo(g,h,i)perylene	40.1	5.0	µg/L	50.0		80.3	40-140	2.44	20	
Benzo(k)fluoranthene	38.2	5.0	µg/L	50.0		76.5	40-140	1.40	20	
Benzoic Acid	14.3	10	µg/L	50.0		28.7	10-130	9.73	50	‡ †
Bis(2-chloroethoxy)methane	37.6	10	µg/L	50.0		75.1	40-140	1.29	20	
Bis(2-chloroethyl)ether	38.0	10	µg/L	50.0		75.9	40-140	2.86	20	
Bis(2-chloroisopropyl)ether	47.7	10	µg/L	50.0		95.5	40-140	0.876	20	V-35
Bis(2-Ethylhexyl)phthalate	36.8	10	µg/L	50.0		73.6	40-140	4.57	20	
4-Bromophenylphenylether	35.6	10	µg/L	50.0		71.2	40-140	2.55	20	
Butylbenzylphthalate	40.2	10	µg/L	50.0		80.5	40-140	0.595	20	
Carbazole	38.3	10	µg/L	50.0		76.7	40-140	1.96	20	
4-Chloroaniline	35.0	10	µg/L	50.0		70.0	40-140	6.36	20	V-34
4-Chloro-3-methylphenol	39.4	10	µg/L	50.0		78.8	30-130	0.304	20	
2-Chloronaphthalene	32.8	10	µg/L	50.0		65.6	40-140	0.760	20	
2-Chlorophenol	33.1	10	µg/L	50.0		66.1	30-130	0.783	20	
4-Chlorophenylphenylether	35.3	10	µg/L	50.0		70.6	40-140	3.43	20	
Chrysene	38.0	5.0	µg/L	50.0		76.1	40-140	0.686	20	
Dibenz(a,h)anthracene	39.9	5.0	µg/L	50.0		79.7	40-140	1.20	20	
Dibenzofuran	37.6	5.0	µg/L	50.0		75.1	40-140	2.24	20	
Di-n-butylphthalate	37.8	10	µg/L	50.0		75.5	40-140	1.65	20	
1,2-Dichlorobenzene	27.8	5.0	µg/L	50.0		55.6	40-140	1.43	20	
1,3-Dichlorobenzene	26.0	5.0	µg/L	50.0		51.9	40-140	2.51	20	
1,4-Dichlorobenzene	26.9	5.0	µg/L	50.0		53.8	40-140	0.260	20	
3,3-Dichlorobenzidine	40.8	10	µg/L	50.0		81.7	40-140	1.36	20	
2,4-Dichlorophenol	35.1	10	µg/L	50.0		70.2	30-130	0.0570	20	
Diethylphthalate	37.7	10	µg/L	50.0		75.5	40-140	2.54	20	
2,4-Dimethylphenol	33.9	10	µg/L	50.0		67.7	30-130	1.13	20	
Dimethylphthalate	37.3	10	µg/L	50.0		74.6	40-140	3.30	50	‡
4,6-Dinitro-2-methylphenol	35.0	10	µg/L	50.0		70.0	30-130	3.04	50	‡
2,4-Dinitrophenol	34.2	10	µg/L	50.0		68.5	30-130	0.117	50	‡
2,4-Dinitrotoluene	40.3	10	µg/L	50.0		80.6	40-140	2.21	20	
2,6-Dinitrotoluene	41.3	10	µg/L	50.0		82.6	40-140	1.49	20	
Di-n-octylphthalate	37.1	10	µg/L	50.0		74.2	40-140	5.94	20	
1,2-Diphenylhydrazine/Azobenzene	39.1	10	µg/L	50.0		78.2	40-140	4.16	20	
Fluoranthene	38.5	5.0	µg/L	50.0		76.9	40-140	0.182	20	
Fluorene	37.2	5.0	µg/L	50.0		74.4	40-140	3.46	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274015 - SW-846 3510C										
LCS Dup (B274015-BSD1)										
Prepared & Analyzed: 01/07/21										
Hexachlorobenzene	37.0	10	µg/L	50.0		74.1	40-140	0.913	20	
Hexachlorobutadiene	28.5	10	µg/L	50.0		56.9	40-140	1.66	20	
Hexachlorocyclopentadiene	19.4	10	µg/L	50.0		38.9	30-140	3.49	50	V-05 † ‡
Hexachloroethane	26.3	10	µg/L	50.0		52.6	40-140	1.42	50	‡
Indeno(1,2,3-cd)pyrene	39.2	5.0	µg/L	50.0		78.4	40-140	2.99	50	‡
Isophorone	41.0	10	µg/L	50.0		82.1	40-140	0.0487	20	
1-Methylnaphthalene	34.2	5.0	µg/L	50.0		68.3	40-140	1.80	20	
2-Methylnaphthalene	38.0	5.0	µg/L	50.0		76.0	40-140	0.131	20	
2-Methylphenol	33.0	10	µg/L	50.0		65.9	30-130	2.34	20	
3/4-Methylphenol	32.0	10	µg/L	50.0		64.1	30-130	3.83	20	
Naphthalene	33.7	5.0	µg/L	50.0		67.4	40-140	2.07	20	
2-Nitroaniline	41.1	10	µg/L	50.0		82.2	40-140	4.17	20	V-35
3-Nitroaniline	37.1	10	µg/L	50.0		74.2	40-140	6.75	20	
4-Nitroaniline	37.0	10	µg/L	50.0		74.1	40-140	3.84	20	
Nitrobenzene	35.2	10	µg/L	50.0		70.4	40-140	1.06	20	
2-Nitrophenol	34.9	10	µg/L	50.0		69.9	30-130	1.53	20	
4-Nitrophenol	22.9	10	µg/L	50.0		45.8	10-130	3.56	50	† ‡
N-Nitrosodimethylamine	22.8	10	µg/L	50.0		45.7	40-140	0.571	20	
N-Nitrosodiphenylamine/Diphenylamine	37.8	10	µg/L	50.0		75.6	40-140	2.40	20	
N-Nitrosodi-n-propylamine	39.1	10	µg/L	50.0		78.2	40-140	0.866	20	
Pentachloronitrobenzene	37.7	10	µg/L	50.0		75.4	40-140	4.97	20	
Pentachlorophenol	26.8	10	µg/L	50.0		53.5	30-130	1.13	50	V-05 ‡
Phenanthrene	39.0	5.0	µg/L	50.0		78.0	40-140	2.15	20	
Phenol	16.3	10	µg/L	50.0		32.6	20-130	3.56	20	†
Pyrene	40.8	5.0	µg/L	50.0		81.7	40-140	0.342	20	
Pyridine	16.1	5.0	µg/L	50.0		32.3	10-140	5.90	50	† ‡
1,2,4,5-Tetrachlorobenzene	31.4	10	µg/L	50.0		62.9	40-140	0.476	20	
1,2,4-Trichlorobenzene	29.4	5.0	µg/L	50.0		58.9	40-140	0.579	20	
2,4,5-Trichlorophenol	37.5	10	µg/L	50.0		75.0	30-130	0.884	20	
2,4,6-Trichlorophenol	35.9	10	µg/L	50.0		71.9	30-130	1.79	50	‡
Surrogate: 2-Fluorophenol	98.5		µg/L	200		49.2	15-110			
Surrogate: Phenol-d6	77.0		µg/L	200		38.5	15-110			
Surrogate: Nitrobenzene-d5	71.0		µg/L	100		71.0	30-130			
Surrogate: 2-Fluorobiphenyl	77.1		µg/L	100		77.1	30-130			
Surrogate: 2,4,6-Tribromophenol	120		µg/L	140		86.0	15-110			
Surrogate: p-Terphenyl-d14	92.2		µg/L	100		92.2	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274256 - SW-846 3510C										
Blank (B274256-BLK1)										
					Prepared: 01/09/21 Analyzed: 01/11/21					
C9-C18 Aliphatics	ND	100	µg/L							
C19-C36 Aliphatics	ND	100	µg/L							
Unadjusted C11-C22 Aromatics	ND	100	µg/L							
C11-C22 Aromatics	ND	100	µg/L							
Acenaphthene	ND	2.0	µg/L							
Acenaphthylene	ND	2.0	µg/L							
Anthracene	ND	2.0	µg/L							
Benzo(a)anthracene	ND	2.0	µg/L							
Benzo(a)pyrene	ND	2.0	µg/L							
Benzo(b)fluoranthene	ND	2.0	µg/L							
Benzo(g,h,i)perylene	ND	2.0	µg/L							
Benzo(k)fluoranthene	ND	2.0	µg/L							
Chrysene	ND	2.0	µg/L							
Dibenz(a,h)anthracene	ND	2.0	µg/L							
Fluoranthene	ND	2.0	µg/L							
Fluorene	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L							
2-Methylnaphthalene	ND	2.0	µg/L							
Naphthalene	ND	2.0	µg/L							
Phenanthrene	ND	2.0	µg/L							
Pyrene	ND	2.0	µg/L							
Naphthalene-aliphatic fraction	ND	2.0	µg/L							
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L							
Surrogate: Chlorooctadecane (COD)	78.1		µg/L	100		78.1	40-140			
Surrogate: o-Terphenyl (OTP)	90.7		µg/L	100		90.7	40-140			
Surrogate: 2-Bromonaphthalene	101		µg/L	100		101	40-140			
Surrogate: 2-Fluorobiphenyl	103		µg/L	100		103	40-140			
LCS (B274256-BS1)										
					Prepared: 01/09/21 Analyzed: 01/11/21					
C9-C18 Aliphatics	474	100	µg/L	600		78.9	0-200			
C19-C36 Aliphatics	741	100	µg/L	800		92.6	0-200			
Unadjusted C11-C22 Aromatics	1570	100	µg/L	1700		92.2	0-200			
Acenaphthene	84.1	2.0	µg/L	100		84.1	40-140			
Acenaphthylene	79.1	2.0	µg/L	100		79.1	40-140			
Anthracene	91.1	2.0	µg/L	100		91.1	40-140			
Benzo(a)anthracene	96.9	2.0	µg/L	100		96.9	40-140			
Benzo(a)pyrene	91.6	2.0	µg/L	100		91.6	40-140			
Benzo(b)fluoranthene	103	2.0	µg/L	100		103	40-140			
Benzo(g,h,i)perylene	83.5	2.0	µg/L	100		83.5	40-140			
Benzo(k)fluoranthene	76.9	2.0	µg/L	100		76.9	40-140			
Chrysene	93.3	2.0	µg/L	100		93.3	40-140			
Dibenz(a,h)anthracene	89.8	2.0	µg/L	100		89.8	40-140			
Fluoranthene	93.3	2.0	µg/L	100		93.3	40-140			
Fluorene	88.9	2.0	µg/L	100		88.9	40-140			
Indeno(1,2,3-cd)pyrene	83.7	2.0	µg/L	100		83.7	40-140			
2-Methylnaphthalene	75.0	2.0	µg/L	100		75.0	40-140			
Naphthalene	68.9	2.0	µg/L	100		68.9	40-140			
Phenanthrene	93.7	2.0	µg/L	100		93.7	40-140			
Pyrene	94.3	2.0	µg/L	100		94.3	40-140			
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	75.6		µg/L	100		75.6	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274256 - SW-846 3510C										
LCS (B274256-BS1)										
					Prepared: 01/09/21 Analyzed: 01/11/21					
Surrogate: o-Terphenyl (OTP)	92.5		µg/L	100		92.5	40-140			
Surrogate: 2-Bromonaphthalene	101		µg/L	100		101	40-140			
Surrogate: 2-Fluorobiphenyl	104		µg/L	100		104	40-140			
LCS Dup (B274256-BSD1)										
					Prepared: 01/09/21 Analyzed: 01/11/21					
C9-C18 Aliphatics	475	100	µg/L	600		79.2	0-200	0.295		
C19-C36 Aliphatics	724	100	µg/L	800		90.6	0-200	2.21		
Unadjusted C11-C22 Aromatics	1570	100	µg/L	1700		92.1	0-200	0.122		
Acenaphthene	84.7	2.0	µg/L	100		84.7	40-140	0.758	25	
Acenaphthylene	79.5	2.0	µg/L	100		79.5	40-140	0.484	25	
Anthracene	91.0	2.0	µg/L	100		91.0	40-140	0.0834	25	
Benzo(a)anthracene	96.3	2.0	µg/L	100		96.3	40-140	0.640	25	
Benzo(a)pyrene	91.0	2.0	µg/L	100		91.0	40-140	0.677	25	
Benzo(b)fluoranthene	102	2.0	µg/L	100		102	40-140	0.939	25	
Benzo(g,h,i)perylene	82.7	2.0	µg/L	100		82.7	40-140	0.898	25	
Benzo(k)fluoranthene	76.5	2.0	µg/L	100		76.5	40-140	0.563	25	
Chrysene	92.6	2.0	µg/L	100		92.6	40-140	0.740	25	
Dibenz(a,h)anthracene	89.1	2.0	µg/L	100		89.1	40-140	0.798	25	
Fluoranthene	93.0	2.0	µg/L	100		93.0	40-140	0.406	25	
Fluorene	89.5	2.0	µg/L	100		89.5	40-140	0.646	25	
Indeno(1,2,3-cd)pyrene	83.0	2.0	µg/L	100		83.0	40-140	0.861	25	
2-Methylnaphthalene	76.0	2.0	µg/L	100		76.0	40-140	1.41	25	
Naphthalene	70.6	2.0	µg/L	100		70.6	40-140	2.37	25	
Phenanthrene	93.9	2.0	µg/L	100		93.9	40-140	0.175	25	
Pyrene	93.9	2.0	µg/L	100		93.9	40-140	0.416	25	
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	72.4		µg/L	100		72.4	40-140			
Surrogate: o-Terphenyl (OTP)	90.3		µg/L	100		90.3	40-140			
Surrogate: 2-Bromonaphthalene	101		µg/L	100		101	40-140			
Surrogate: 2-Fluorobiphenyl	104		µg/L	100		104	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP EPH rev 2.1 in Soil	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
MADEP EPH rev 2.1 in Water	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
SW-846 8260C-D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Water</i>	
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Water	
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2021
ME	State of Maine	MA00100	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Stone Environmental

Received By AW Date 1/6/21 Time 1445

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-8°C T By Gun # 2 Actual Temp - 20, 24
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent information? Client T Analysis T Sampler Name F
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? T MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? T On COC? T

Do all samples have the proper pH? Acid T Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.	12	1 Liter Plastic	16 oz Amb.
HCL-	11	500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

January 14, 2021

Lee Rosberg
Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602

Project Location: Brattleboro, VT
Client Job Number:
Project Number: 19-015
Laboratory Work Order Number: 21A0044

Enclosed are results of analyses for samples received by the laboratory on January 5, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	8
21A0044-01	8
21A0044-02	14
21A0044-03	21
Sample Preparation Information	27
QC Data	28
Volatile Organic Compounds by GC/MS	28
B273990	28
B273992	33
Semivolatile Organic Compounds by GC/MS	38
B273912	38
Petroleum Hydrocarbons Analyses - EPH	43
B273835	43
SPLP - Volatile Organic Compounds by GC/MS	45
B274239	45
SPLP - Semivolatile Organic Compounds by GC/MS	50
B274109	50
SPLP - Extraction Petroleum Hydrocarbons by GC/FID	55
B274207	55
Flag/Qualifier Summary	58
Certifications	59
Chain of Custody/Sample Receipt	67



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602
ATTN: Lee Rosberg

REPORT DATE: 1/14/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 19-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21A0044

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brattleboro, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IP-26-63.0	21A0044-01	Soil		MADEP EPH rev 2.1 SM 2540G SW-846 8260C-D SW-846 8270D-E	
IP-27-56.0	21A0044-02	Soil		- MADEP EPH rev 2.1 SM 2540G SW-846 8260C-D SW-846 8270D-E	MAM-MA071/CT PH-0520
IP-27-59.0	21A0044-03	Soil		MADEP EPH rev 2.1 SM 2540G SW-846 8260C-D SW-846 8270D-E	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Chlorooctadecane (COD)

21A0044-03RE1[IP-27-59.0]

o-Terphenyl (OTP)

21A0044-03RE1[IP-27-59.0]

S-15

Surrogate recovery outside of control limits due to suspected sample matrix interference. Chromatogram(s) is attached.

Analyte & Samples(s) Qualified:

o-Terphenyl (OTP)

21A0044-03[IP-27-59.0]

SW-846 8260C-D

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Methylene Chloride

21A0044-02[IP-27-56.0], B274239-BS1, B274239-BSD1

B-01

Methylene chloride is a common laboratory contaminant.

Analyte & Samples(s) Qualified:

Methylene Chloride

21A0044-02[IP-27-56.0], B274239-BLK1

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Methyl Acetate

B273992-BS1, B273992-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Chloromethane

21A0044-03[IP-27-59.0], B273990-BLK1, B273990-BS1, B273990-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Bromomethane

B274239-BSD1

trans-1,4-Dichloro-2-butene

B273992-BS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

21A0044-03[IP-27-59.0]

V-05
Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Carbon Disulfide**

21A0044-02[IP-27-56.0], B274239-BLK1, B274239-BS1, B274239-BSD1, S056063-CCV1

Chloromethane

21A0044-02[IP-27-56.0], 21A0044-03[IP-27-59.0], B273990-BLK1, B273990-BS1, B273990-BSD1, B274239-BLK1, B274239-BS1, B274239-BSD1, S055988-CCV1, S056063-CCV1

trans-1,4-Dichloro-2-butene

21A0044-01[IP-26-63.0], 21A0044-02[IP-27-56.0], B273992-BLK1, B273992-BS1, B273992-BSD1, B274239-BLK1, B274239-BS1, B274239-BSD1, S055977-CCV1, S056063-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

B273990-BS1, B273990-BSD1, B274239-BS1, B274239-BSD1, S055988-CCV1, S056063-CCV1

Methyl Acetate

B273992-BS1, B273992-BSD1, B274239-BS1, B274239-BSD1, S055977-CCV1, S056063-CCV1

tert-Butyl Alcohol (TBA)

B273990-BS1, B273990-BSD1, S055988-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

21A0044-01[IP-26-63.0], 21A0044-02[IP-27-56.0], 21A0044-03[IP-27-59.0], B273990-BLK1, B273990-BS1, B273990-BSD1, B273992-BLK1, B273992-BS1, B273992-BSD1, B274239-BLK1, B274239-BS1, B274239-BSD1, S055977-CCV1, S055988-CCV1, S056063-CCV1

Chloromethane

21A0044-02[IP-27-56.0], 21A0044-03[IP-27-59.0], B273990-BLK1, B273990-BS1, B273990-BSD1, B274239-BLK1, B274239-BS1, B274239-BSD1, S055988-CCV1, S056063-CCV1

SW-846 8270D-E

Qualifications:**L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Benzoic Acid**

21A0044-01[IP-26-63.0], 21A0044-03[IP-27-59.0], B273912-BLK1, B273912-BS1, B273912-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Benzidine**

21A0044-02[IP-27-56.0], B274109-BLK1, B274109-BS1, B274109-BSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

21A0044-03[IP-27-59.0]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Benzidine**

21A0044-01[IP-26-63.0], 21A0044-02[IP-27-56.0], 21A0044-03[IP-27-59.0], B273912-BLK1, B273912-BS1, B273912-BSD1, B274109-BLK1, B274109-BS1, B274109-BSD1, S055993-CCV1, S055995-CCV1, S056060-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Benzidine

21A0044-01[IP-26-63.0], 21A0044-02[IP-27-56.0], 21A0044-03[IP-27-59.0], B273912-BLK1, B273912-BS1, B273912-BSD1, B274109-BLK1, B274109-BS1, B274109-BSD1, S055993-CCV1, S055995-CCV1, S056060-CCV1

Hexachlorocyclopentadiene

21A0044-02[IP-27-56.0], B274109-BLK1, B274109-BS1, B274109-BSD1, S055995-CCV1, S056060-CCV1

Pentachlorophenol

21A0044-02[IP-27-56.0], B274109-BLK1, B274109-BS1, B274109-BSD1, S055995-CCV1, S056060-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

3/4-Methylphenol

21A0044-01[IP-26-63.0], 21A0044-03[IP-27-59.0], B273912-BLK1, B273912-BS1, B273912-BSD1, S055993-CCV1

Acetophenone

21A0044-01[IP-26-63.0], 21A0044-03[IP-27-59.0], B273912-BLK1, B273912-BS1, B273912-BSD1, S055993-CCV1

Benzoic Acid

21A0044-01[IP-26-63.0], 21A0044-03[IP-27-59.0], B273912-BLK1, B273912-BS1, B273912-BSD1, S055993-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline

21A0044-01[IP-26-63.0], 21A0044-02[IP-27-56.0], 21A0044-03[IP-27-59.0], B273912-BLK1, B273912-BS1, B273912-BSD1, B274109-BLK1, B274109-BS1, B274109-BSD1, S054918-ICV1, S055993-CCV1, S055995-CCV1, S056060-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

2-Nitroaniline

21A0044-02[IP-27-56.0], B274109-BLK1, B274109-BS1, B274109-BSD1, S055995-CCV1, S056060-CCV1

Benzidine

21A0044-01[IP-26-63.0], 21A0044-03[IP-27-59.0], B273912-BLK1, B273912-BS1, B273912-BSD1, S054918-ICV1, S055993-CCV1

Bis(2-chloroisopropyl)ether

21A0044-02[IP-27-56.0], B274109-BLK1, B274109-BS1, B274109-BSD1, S055995-CCV1, S056060-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Sampled: 12/30/2020 10:30

Field Sample #: IP-26-63.0

Sample ID: 21A0044-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Acrylonitrile	ND	0.0064	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-34	SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Carbon Disulfide	ND	0.0064	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1	V-05	SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-26-63.0

Sampled: 12/30/2020 10:30

Sample ID: 21A0044-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Methyl Acetate	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Methyl Cyclohexane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2,3-Trimethylbenzene	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/21	1/6/21 7:06	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		107	70-130					1/6/21 7:06	
Toluene-d8		100	70-130					1/6/21 7:06	
4-Bromofluorobenzene		99.8	70-130					1/6/21 7:06	

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-26-63.0

Sampled: 12/30/2020 10:30

Sample ID: 21A0044-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Acetophenone	ND	0.37	mg/Kg dry	1	V-06	SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Benzidine	ND	0.72	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Benzoic Acid	ND	1.1	mg/Kg dry	1	L-04, V-06	SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
4-Chloroaniline	ND	0.72	mg/Kg dry	1	V-34	SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
4-Chloro-3-methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-26-63.0

Sampled: 12/30/2020 10:30

Sample ID: 21A0044-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1	V-06	SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
N-Nitrosodimethylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	1/5/21	1/6/21 16:20	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	89.1	30-130	1/6/21 16:20
Phenol-d6	104	30-130	1/6/21 16:20
Nitrobenzene-d5	76.8	30-130	1/6/21 16:20
2-Fluorobiphenyl	96.3	30-130	1/6/21 16:20
2,4,6-Tribromophenol	91.9	30-130	1/6/21 16:20
p-Terphenyl-d14	111	30-130	1/6/21 16:20



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-26-63.0

Sampled: 12/30/2020 10:30

Sample ID: 21A0044-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Chrysene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Fluorene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Pyrene	ND	0.11	mg/Kg dry	1		MADEP EPH rev 2.1	1/5/21	1/12/21 7:06	RDD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Chlorooctadecane (COD)		76.4	40-140					1/12/21 7:06	
o-Terphenyl (OTP)		88.1	40-140					1/12/21 7:06	
2-Bromonaphthalene		97.1	40-140					1/12/21 7:06	
2-Fluorobiphenyl		97.7	40-140					1/12/21 7:06	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Sampled: 12/30/2020 10:30

Field Sample #: IP-26-63.0

Sample ID: 21A0044-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1		% Wt	1		SM 2540G	1/6/21	1/6/21 13:29	CJT



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Sampled: 12/30/2020 15:50

Field Sample #: IP-27-56.0

Sample ID: 21A0044-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.3		% Wt	1		SM 2540G	1/6/21	1/6/21 13:29	CJT



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-56.0

Sampled: 12/30/2020 15:50

Sample ID: 21A0044-02

Sample Matrix: Soil

SPLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Benzene	1.6	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Carbon Disulfide	ND	5.0	µg/L	1	V-05	SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Chloromethane	ND	2.0	µg/L	1	V-05, V-34	SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
cis-1,2-Dichloroethylene	4.0	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-56.0

Sampled: 12/30/2020 15:50

Sample ID: 21A0044-02

Sample Matrix: Soil

SPLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Ethylbenzene	7.9	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Methyl Cyclohexane	2.0	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Methylene Chloride	12	5.0	µg/L	1	B-01, B	SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Naphthalene	21	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2,3-Trimethylbenzene	20	0.50	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,2,4-Trimethylbenzene	17	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
1,3,5-Trimethylbenzene	9.6	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Vinyl Acetate	ND	20	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
m+p Xylene	16	2.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
o-Xylene	4.9	1.0	µg/L	1		SW-846 8260C-D	1/8/21	1/8/21 18:55	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		94.7	70-130					1/8/21 18:55	
Toluene-d8		100	70-130					1/8/21 18:55	
4-Bromofluorobenzene		103	70-130					1/8/21 18:55	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-56.0

Sampled: 12/30/2020 15:50

Sample ID: 21A0044-02

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Acetophenone	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Aniline	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Benzidine	ND	20	µg/L	1	V-04, V-05, R-05	SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Benzoic Acid	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2,4-Dimethylphenol	17	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-56.0

Sampled: 12/30/2020 15:50

Sample ID: 21A0044-02

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Isophorone	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
1-Methylnaphthalene	13	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2-Methylnaphthalene	12	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2-Methylphenol	17	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
3/4-Methylphenol	44	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Naphthalene	11	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2-Nitroaniline	ND	10	µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
N-Nitrosodimethylamine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Pentachloronitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Pentachlorophenol	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Phenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Pyridine	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/7/21	1/9/21 16:05	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		57.0	15-110					1/9/21 16:05	
Phenol-d6		46.6	15-110					1/9/21 16:05	
Nitrobenzene-d5		83.5	30-130					1/9/21 16:05	
2-Fluorobiphenyl		86.4	30-130					1/9/21 16:05	
2,4,6-Tribromophenol		95.5	15-110					1/9/21 16:05	
p-Terphenyl-d14		102	30-130					1/9/21 16:05	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-56.0

Sampled: 12/30/2020 15:50

Sample ID: 21A0044-02

Sample Matrix: Soil

SPLP - Extraction Petroleum Hydrocarbons by GC/FID

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
C19-C36 Aliphatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Unadjusted C11-C22 Aromatics	480	100	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
C11-C22 Aromatics	440	100	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Acenaphthene	3.3	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Acenaphthylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Chrysene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Fluorene	3.1	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
2-Methylnaphthalene	15	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Naphthalene	13	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Phenanthrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD
Pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/8/21	1/12/21 6:28	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Chlorooctadecane (COD)	51.3	40-140	1/12/21 6:28
o-Terphenyl (OTP)	86.0	40-140	1/12/21 6:28
2-Bromonaphthalene	94.3	40-140	1/12/21 6:28
2-Fluorobiphenyl	98.1	40-140	1/12/21 6:28



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Sampled: 12/30/2020 15:50

Field Sample #: IP-27-56.0

Sample ID: 21A0044-02

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Moisture, %	2.77	0.1	mg/Kg	1		-		1/6/21 0:00	SAL

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-59.0

Sampled: 12/30/2020 16:00

Sample ID: 21A0044-03

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	9.7	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Acrylonitrile	ND	0.97	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Benzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Bromobenzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Bromochloromethane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Bromodichloromethane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Bromoform	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Bromomethane	ND	0.97	mg/Kg dry	4	V-34	SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
2-Butanone (MEK)	ND	3.9	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
tert-Butyl Alcohol (TBA)	ND	3.9	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
n-Butylbenzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
sec-Butylbenzene	0.29	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
tert-Butylbenzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Carbon Disulfide	ND	0.97	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Carbon Tetrachloride	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Chlorobenzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Chlorodibromomethane	ND	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Chloroethane	ND	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Chloroform	ND	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Chloromethane	ND	0.39	mg/Kg dry	4	L-04, V-05, V-34	SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
2-Chlorotoluene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
4-Chlorotoluene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.97	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2-Dibromoethane (EDB)	ND	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Dibromomethane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2-Dichlorobenzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,3-Dichlorobenzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,4-Dichlorobenzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
trans-1,4-Dichloro-2-butene	ND	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,1-Dichloroethane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2-Dichloroethane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,1-Dichloroethylene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
cis-1,2-Dichloroethylene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
trans-1,2-Dichloroethylene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2-Dichloropropane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,3-Dichloropropane	ND	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
2,2-Dichloropropane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,1-Dichloropropene	ND	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
cis-1,3-Dichloropropene	ND	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
trans-1,3-Dichloropropene	ND	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Diethyl Ether	ND	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-59.0

Sampled: 12/30/2020 16:00

Sample ID: 21A0044-03

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,4-Dioxane	ND	9.7	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Ethylbenzene	0.93	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Hexachlorobutadiene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
2-Hexanone (MBK)	ND	1.9	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Isopropylbenzene (Cumene)	0.20	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
p-Isopropyltoluene (p-Cymene)	0.97	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Methyl Acetate	ND	1.9	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Methyl Cyclohexane	2.5	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Methylene Chloride	ND	0.97	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
4-Methyl-2-pentanone (MIBK)	ND	1.9	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Naphthalene	12	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
n-Propylbenzene	0.50	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Styrene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,1,1,2-Tetrachloroethane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,1,2,2-Tetrachloroethane	ND	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Tetrachloroethylene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Tetrahydrofuran	ND	1.9	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Toluene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2,3-Trichlorobenzene	ND	0.97	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2,4-Trichlorobenzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,3,5-Trichlorobenzene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,1,1-Trichloroethane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,1,2-Trichloroethane	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Trichloroethylene	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Trichlorofluoromethane (Freon 11)	ND	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2,3-Trichloropropane	ND	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2,3-Trimethylbenzene	9.1	0.097	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,2,4-Trimethylbenzene	12	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
1,3,5-Trimethylbenzene	5.8	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Vinyl Chloride	ND	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
m+p Xylene	4.3	0.39	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
o-Xylene	1.1	0.19	mg/Kg dry	4		SW-846 8260C-D	1/6/21	1/6/21 14:55	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		96.2	70-130					1/6/21 14:55	
Toluene-d8		97.7	70-130					1/6/21 14:55	
4-Bromofluorobenzene		102	70-130					1/6/21 14:55	

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-59.0

Sampled: 12/30/2020 16:00

Sample ID: 21A0044-03

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	15	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Acenaphthylene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Acetophenone	ND	18	mg/Kg dry	10	V-06	SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Aniline	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Anthracene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Benzidine	ND	34	mg/Kg dry	10	V-04, V-05, V-35	SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Benzo(a)anthracene	9.6	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Benzo(a)pyrene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Benzo(b)fluoranthene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Benzo(g,h,i)perylene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Benzo(k)fluoranthene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Benzoic Acid	ND	52	mg/Kg dry	10	L-04, V-06	SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Bis(2-chloroethoxy)methane	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Bis(2-chloroethyl)ether	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Bis(2-chloroisopropyl)ether	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Bis(2-Ethylhexyl)phthalate	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
4-Bromophenylphenylether	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Butylbenzylphthalate	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Carbazole	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
4-Chloroaniline	ND	34	mg/Kg dry	10	V-34	SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
4-Chloro-3-methylphenol	ND	34	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2-Chloronaphthalene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2-Chlorophenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
4-Chlorophenylphenylether	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Chrysene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Dibenz(a,h)anthracene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Dibenzofuran	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Di-n-butylphthalate	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
1,2-Dichlorobenzene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
1,3-Dichlorobenzene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
1,4-Dichlorobenzene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
3,3-Dichlorobenzidine	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2,4-Dichlorophenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Diethylphthalate	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2,4-Dimethylphenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Dimethylphthalate	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
4,6-Dinitro-2-methylphenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2,4-Dinitrophenol	ND	34	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2,4-Dinitrotoluene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2,6-Dinitrotoluene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Di-n-octylphthalate	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Fluoranthene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Fluorene	13	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-59.0

Sampled: 12/30/2020 16:00

Sample ID: 21A0044-03

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Hexachlorobutadiene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Hexachlorocyclopentadiene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Hexachloroethane	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Indeno(1,2,3-cd)pyrene	ND	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Isophorone	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
1-Methylnaphthalene	44	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2-Methylnaphthalene	45	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2-Methylphenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
3/4-Methylphenol	ND	18	mg/Kg dry	10	V-06	SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Naphthalene	11	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2-Nitroaniline	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
3-Nitroaniline	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
4-Nitroaniline	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Nitrobenzene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2-Nitrophenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
4-Nitrophenol	ND	34	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
N-Nitrosodimethylamine	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
N-Nitrosodi-n-propylamine	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Pentachloronitrobenzene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Pentachlorophenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Phenanthrene	15	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Phenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Pyrene	30	8.8	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
Pyridine	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
1,2,4,5-Tetrachlorobenzene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
1,2,4-Trichlorobenzene	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2,4,5-Trichlorophenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL
2,4,6-Trichlorophenol	ND	18	mg/Kg dry	10		SW-846 8270D-E	1/5/21	1/6/21 16:45	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	72.8	30-130	1/6/21 16:45
Phenol-d6	87.0	30-130	1/6/21 16:45
Nitrobenzene-d5	68.0	30-130	1/6/21 16:45
2-Fluorobiphenyl	86.5	30-130	1/6/21 16:45
2,4,6-Tribromophenol	84.5	30-130	1/6/21 16:45
p-Terphenyl-d14	111	30-130	1/6/21 16:45



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Field Sample #: IP-27-59.0

Sampled: 12/30/2020 16:00

Sample ID: 21A0044-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	4900	1000	mg/Kg dry	50		MADEP EPH rev 2.1	1/5/21	1/13/21 11:48	RDD
C19-C36 Aliphatics	9700	1000	mg/Kg dry	50		MADEP EPH rev 2.1	1/5/21	1/13/21 11:48	RDD
Unadjusted C11-C22 Aromatics	13000	1000	mg/Kg dry	50		MADEP EPH rev 2.1	1/5/21	1/13/21 11:48	RDD
C11-C22 Aromatics	13000	1000	mg/Kg dry	50		MADEP EPH rev 2.1	1/5/21	1/13/21 11:48	RDD
Acenaphthene	9.5	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Acenaphthylene	6.0	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Anthracene	13	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Benzo(a)anthracene	ND	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Benzo(a)pyrene	ND	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Benzo(b)fluoranthene	ND	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Benzo(g,h,i)perylene	ND	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Benzo(k)fluoranthene	ND	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Chrysene	ND	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Dibenz(a,h)anthracene	ND	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Fluoranthene	12	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Fluorene	20	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Indeno(1,2,3-cd)pyrene	ND	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
2-Methylnaphthalene	31	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Naphthalene	18	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Phenanthrene	18	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD
Pyrene	12	1.0	mg/Kg dry	5		MADEP EPH rev 2.1	1/5/21	1/13/21 1:35	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed	Analyst
Chlorooctadecane (COD)	70.1	40-140		1/13/21 1:35	
Chlorooctadecane (COD)	*	40-140	S-01	1/13/21 11:48	
o-Terphenyl (OTP)	508	40-140	S-15	1/13/21 1:35	
o-Terphenyl (OTP)	*	40-140	S-01	1/13/21 11:48	
2-Bromonaphthalene	110	40-140		1/13/21 1:35	
2-Fluorobiphenyl	98.5	40-140		1/13/21 1:35	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0044

Date Received: 1/5/2021

Sampled: 12/30/2020 16:00

Field Sample #: IP-27-59.0

Sample ID: 21A0044-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.8		% Wt	1		SM 2540G	1/6/21	1/6/21 13:30	CJT

Sample Extraction Data

Prep Method: SW-846 3546 Analytical Method: MADEP EPH rev 2.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21A0044-01 [IP-26-63.0]	B273835	20.0	2.00	01/05/21
21A0044-03 [IP-27-59.0]	B273835	20.0	4.00	01/05/21
21A0044-03RE1 [IP-27-59.0]	B273835	20.0	4.00	01/05/21

Prep Method: SW-846 3510C Analytical Method: MADEP EPH rev 2.1 Dates were extracted on 1/6/2021 per SW-846 1312 in Batch B274053

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0044-02 [IP-27-56.0]	B274207	1000	2.00	01/08/21

Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21A0044-01 [IP-26-63.0]	B274001	01/06/21
21A0044-02 [IP-27-56.0]	B274001	01/06/21
21A0044-03 [IP-27-59.0]	B274001	01/06/21

Prep Method: SW-846 5035 Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
21A0044-03 [IP-27-59.0]	B273990	5.52	5.18	0.25	50	01/06/21

Prep Method: SW-846 5035 Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21A0044-01 [IP-26-63.0]	B273992	5.05	10.0	01/06/21

Prep Method: SW-846 5030B Analytical Method: SW-846 8260C-D Dates were extracted on 1/7/2021 per SW-846 1312 in Batch B274147

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0044-02 [IP-27-56.0]	B274239	5.00	5.00	01/08/21

Prep Method: SW-846 3546 Analytical Method: SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21A0044-01 [IP-26-63.0]	B273912	30.0	1.00	01/05/21
21A0044-03 [IP-27-59.0]	B273912	30.0	5.00	01/05/21

Prep Method: SW-846 3510C Analytical Method: SW-846 8270D-E Dates were extracted on 1/6/2021 per SW-846 1312 in Batch B274053

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0044-02 [IP-27-56.0]	B274109	1000	1.00	01/07/21

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273990 - SW-846 5035

Blank (B273990-BLK1)

Prepared & Analyzed: 01/06/21

Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							V-34
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.25	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							L-04, V-05, V-34
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl Acetate	ND	0.50	mg/Kg wet							

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273990 - SW-846 5035
Blank (B273990-BLK1)

Prepared & Analyzed: 01/06/21

Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methyl Cyclohexane	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,3-Trimethylbenzene	ND	0.00050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0245		mg/Kg wet	0.0250		98.2	70-130			
Surrogate: Toluene-d8	0.0250		mg/Kg wet	0.0250		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0251		mg/Kg wet	0.0250		100	70-130			

LCS (B273990-BS1)

Prepared & Analyzed: 01/06/21

Acetone	0.211	0.057	mg/Kg wet	0.227		93.1	70-160			†
Acrylonitrile	0.0247	0.0057	mg/Kg wet	0.0227		109	70-130			
tert-Amyl Methyl Ether (TAME)	0.0212	0.00057	mg/Kg wet	0.0227		93.4	70-130			
Benzene	0.0225	0.0011	mg/Kg wet	0.0227		99.1	70-130			
Bromobenzene	0.0231	0.0011	mg/Kg wet	0.0227		102	70-130			
Bromochloromethane	0.0255	0.0011	mg/Kg wet	0.0227		112	70-130			
Bromodichloromethane	0.0243	0.0011	mg/Kg wet	0.0227		107	70-130			
Bromoform	0.0238	0.0011	mg/Kg wet	0.0227		105	70-130			
Bromomethane	0.0182	0.0023	mg/Kg wet	0.0227		80.2	40-130		V-20, V-34	†
2-Butanone (MEK)	0.199	0.023	mg/Kg wet	0.227		87.6	70-160			†
tert-Butyl Alcohol (TBA)	0.253	0.023	mg/Kg wet	0.227		112	40-130		V-20	†
n-Butylbenzene	0.0222	0.0011	mg/Kg wet	0.0227		97.9	70-130			
sec-Butylbenzene	0.0224	0.0011	mg/Kg wet	0.0227		98.8	70-130			
tert-Butylbenzene	0.0235	0.0011	mg/Kg wet	0.0227		104	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0217	0.00057	mg/Kg wet	0.0227		95.6	70-130			
Carbon Disulfide	0.0221	0.0057	mg/Kg wet	0.0227		97.7	70-130			
Carbon Tetrachloride	0.0230	0.0011	mg/Kg wet	0.0227		102	70-130			
Chlorobenzene	0.0230	0.0011	mg/Kg wet	0.0227		102	70-130			
Chlorodibromomethane	0.0241	0.00057	mg/Kg wet	0.0227		106	70-130			
Chloroethane	0.0242	0.0023	mg/Kg wet	0.0227		107	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273990 - SW-846 5035										
LCS (B273990-BS1)										
Prepared & Analyzed: 01/06/21										
Chloroform	0.0228	0.0023	mg/Kg wet	0.0227		100	70-130			
Chloromethane	0.00870	0.0023	mg/Kg wet	0.0227		38.4 *	70-130			V-05, L-04, V-34
2-Chlorotoluene	0.0220	0.0011	mg/Kg wet	0.0227		97.2	70-130			
4-Chlorotoluene	0.0227	0.0011	mg/Kg wet	0.0227		100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0237	0.0057	mg/Kg wet	0.0227		105	70-130			
1,2-Dibromoethane (EDB)	0.0248	0.00057	mg/Kg wet	0.0227		109	70-130			
Dibromomethane	0.0238	0.0011	mg/Kg wet	0.0227		105	70-130			
1,2-Dichlorobenzene	0.0223	0.0011	mg/Kg wet	0.0227		98.3	70-130			
1,3-Dichlorobenzene	0.0229	0.0011	mg/Kg wet	0.0227		101	70-130			
1,4-Dichlorobenzene	0.0221	0.0011	mg/Kg wet	0.0227		97.6	70-130			
trans-1,4-Dichloro-2-butene	0.0222	0.0023	mg/Kg wet	0.0227		98.1	70-130			
Dichlorodifluoromethane (Freon 12)	0.0183	0.0023	mg/Kg wet	0.0227		80.7	40-160			†
1,1-Dichloroethane	0.0252	0.0011	mg/Kg wet	0.0227		111	70-130			
1,2-Dichloroethane	0.0255	0.0011	mg/Kg wet	0.0227		112	70-130			
1,1-Dichloroethylene	0.0271	0.0011	mg/Kg wet	0.0227		120	70-130			
cis-1,2-Dichloroethylene	0.0249	0.0011	mg/Kg wet	0.0227		110	70-130			
trans-1,2-Dichloroethylene	0.0260	0.0011	mg/Kg wet	0.0227		114	70-130			
1,2-Dichloropropane	0.0258	0.0011	mg/Kg wet	0.0227		114	70-130			
1,3-Dichloropropane	0.0227	0.00057	mg/Kg wet	0.0227		100	70-130			
2,2-Dichloropropane	0.0226	0.0011	mg/Kg wet	0.0227		99.9	70-130			
1,1-Dichloropropene	0.0216	0.0023	mg/Kg wet	0.0227		95.4	70-130			
cis-1,3-Dichloropropene	0.0223	0.00057	mg/Kg wet	0.0227		98.5	70-130			
trans-1,3-Dichloropropene	0.0239	0.00057	mg/Kg wet	0.0227		106	70-130			
Diethyl Ether	0.0258	0.0023	mg/Kg wet	0.0227		114	70-130			
Diisopropyl Ether (DIPE)	0.0224	0.00057	mg/Kg wet	0.0227		98.6	70-130			
1,4-Dioxane	0.229	0.057	mg/Kg wet	0.227		101	40-160			†
Ethylbenzene	0.0224	0.0011	mg/Kg wet	0.0227		98.8	70-130			
Hexachlorobutadiene	0.0233	0.0011	mg/Kg wet	0.0227		103	70-160			
2-Hexanone (MBK)	0.218	0.011	mg/Kg wet	0.227		96.0	70-160			†
Isopropylbenzene (Cumene)	0.0229	0.0011	mg/Kg wet	0.0227		101	70-130			
p-Isopropyltoluene (p-Cymene)	0.0248	0.0011	mg/Kg wet	0.0227		109	70-130			
Methyl Acetate	0.0193	0.011	mg/Kg wet	0.0227		84.9	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0231	0.0011	mg/Kg wet	0.0227		102	70-130			
Methyl Cyclohexane	0.0242	0.0011	mg/Kg wet	0.0227		107	70-130			
Methylene Chloride	0.0210	0.0057	mg/Kg wet	0.0227		92.7	40-160			†
4-Methyl-2-pentanone (MIBK)	0.223	0.011	mg/Kg wet	0.227		98.2	70-160			†
Naphthalene	0.0195	0.0023	mg/Kg wet	0.0227		86.2	40-130			†
n-Propylbenzene	0.0222	0.0011	mg/Kg wet	0.0227		98.1	70-130			
Styrene	0.0229	0.0011	mg/Kg wet	0.0227		101	70-130			
1,1,1,2-Tetrachloroethane	0.0251	0.0011	mg/Kg wet	0.0227		111	70-130			
1,1,2,2-Tetrachloroethane	0.0225	0.00057	mg/Kg wet	0.0227		99.4	70-130			
Tetrachloroethylene	0.0254	0.0011	mg/Kg wet	0.0227		112	70-130			
Tetrahydrofuran	0.0240	0.011	mg/Kg wet	0.0227		106	70-130			
Toluene	0.0225	0.0011	mg/Kg wet	0.0227		99.0	70-130			
1,2,3-Trichlorobenzene	0.0196	0.0057	mg/Kg wet	0.0227		86.3	70-130			
1,2,4-Trichlorobenzene	0.0223	0.0011	mg/Kg wet	0.0227		98.5	70-130			
1,3,5-Trichlorobenzene	0.0219	0.0011	mg/Kg wet	0.0227		96.7	70-130			
1,1,1-Trichloroethane	0.0239	0.0011	mg/Kg wet	0.0227		105	70-130			
1,1,2-Trichloroethane	0.0240	0.0011	mg/Kg wet	0.0227		106	70-130			
Trichloroethylene	0.0251	0.0011	mg/Kg wet	0.0227		111	70-130			
Trichlorofluoromethane (Freon 11)	0.0193	0.0023	mg/Kg wet	0.0227		85.2	70-130			
1,2,3-Trichloropropane	0.0250	0.0023	mg/Kg wet	0.0227		110	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273990 - SW-846 5035										
LCS (B273990-BS1)										
Prepared & Analyzed: 01/06/21										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0243	0.0011	mg/Kg wet	0.0227		107	70-130			
1,2,3-Trimethylbenzene	0.0224	0.00057	mg/Kg wet	0.0227		98.7	70-130			
1,2,4-Trimethylbenzene	0.0219	0.0011	mg/Kg wet	0.0227		96.6	70-130			
1,3,5-Trimethylbenzene	0.0228	0.0011	mg/Kg wet	0.0227		101	70-130			
Vinyl Chloride	0.0194	0.0023	mg/Kg wet	0.0227		85.8	40-130			†
m+p Xylene	0.0453	0.0023	mg/Kg wet	0.0453		99.9	70-130			
o-Xylene	0.0224	0.0011	mg/Kg wet	0.0227		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0268		mg/Kg wet	0.0283		94.6	70-130			
Surrogate: Toluene-d8	0.0283		mg/Kg wet	0.0283		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0287		mg/Kg wet	0.0283		101	70-130			
LCS Dup (B273990-BSD1)										
Prepared & Analyzed: 01/06/21										
Acetone	0.209	0.057	mg/Kg wet	0.227		92.0	70-160	1.18	25	†
Acrylonitrile	0.0236	0.0057	mg/Kg wet	0.0227		104	70-130	4.27	25	
tert-Amyl Methyl Ether (TAME)	0.0207	0.00057	mg/Kg wet	0.0227		91.2	70-130	2.33	25	
Benzene	0.0218	0.0011	mg/Kg wet	0.0227		96.1	70-130	3.12	25	
Bromobenzene	0.0227	0.0011	mg/Kg wet	0.0227		100	70-130	1.64	25	
Bromochloromethane	0.0246	0.0011	mg/Kg wet	0.0227		108	70-130	3.49	25	
Bromodichloromethane	0.0238	0.0011	mg/Kg wet	0.0227		105	70-130	1.88	25	
Bromoform	0.0238	0.0011	mg/Kg wet	0.0227		105	70-130	0.190	25	
Bromomethane	0.0197	0.0023	mg/Kg wet	0.0227		86.7	40-130	7.79	25	V-20, V-34 †
2-Butanone (MEK)	0.198	0.023	mg/Kg wet	0.227		87.5	70-160	0.114	25	†
tert-Butyl Alcohol (TBA)	0.257	0.023	mg/Kg wet	0.227		113	40-130	1.28	25	V-20 †
n-Butylbenzene	0.0218	0.0011	mg/Kg wet	0.0227		96.1	70-130	1.80	25	
sec-Butylbenzene	0.0223	0.0011	mg/Kg wet	0.0227		98.5	70-130	0.304	25	
tert-Butylbenzene	0.0233	0.0011	mg/Kg wet	0.0227		103	70-160	1.07	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0211	0.00057	mg/Kg wet	0.0227		93.3	70-130	2.49	25	
Carbon Disulfide	0.0211	0.0057	mg/Kg wet	0.0227		93.1	70-130	4.77	25	
Carbon Tetrachloride	0.0218	0.0011	mg/Kg wet	0.0227		96.1	70-130	5.47	25	
Chlorobenzene	0.0231	0.0011	mg/Kg wet	0.0227		102	70-130	0.197	25	
Chlorodibromomethane	0.0240	0.00057	mg/Kg wet	0.0227		106	70-130	0.707	25	
Chloroethane	0.0236	0.0023	mg/Kg wet	0.0227		104	70-130	2.47	25	
Chloroform	0.0223	0.0023	mg/Kg wet	0.0227		98.5	70-130	1.91	25	
Chloromethane	0.00824	0.0023	mg/Kg wet	0.0227		36.3 *	70-130	5.48	25	L-04, V-05, V-34
2-Chlorotoluene	0.0219	0.0011	mg/Kg wet	0.0227		96.6	70-130	0.722	25	
4-Chlorotoluene	0.0228	0.0011	mg/Kg wet	0.0227		101	70-130	0.547	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0234	0.0057	mg/Kg wet	0.0227		103	70-130	1.15	25	
1,2-Dibromoethane (EDB)	0.0250	0.00057	mg/Kg wet	0.0227		110	70-130	0.820	25	
Dibromomethane	0.0232	0.0011	mg/Kg wet	0.0227		103	70-130	2.27	25	
1,2-Dichlorobenzene	0.0223	0.0011	mg/Kg wet	0.0227		98.2	70-130	0.102	25	
1,3-Dichlorobenzene	0.0228	0.0011	mg/Kg wet	0.0227		101	70-130	0.496	25	
1,4-Dichlorobenzene	0.0223	0.0011	mg/Kg wet	0.0227		98.4	70-130	0.714	25	
trans-1,4-Dichloro-2-butene	0.0235	0.0023	mg/Kg wet	0.0227		104	70-130	5.69	25	
Dichlorodifluoromethane (Freon 12)	0.0175	0.0023	mg/Kg wet	0.0227		77.4	40-160	4.24	25	†
1,1-Dichloroethane	0.0241	0.0011	mg/Kg wet	0.0227		106	70-130	4.55	25	
1,2-Dichloroethane	0.0256	0.0011	mg/Kg wet	0.0227		113	70-130	0.532	25	
1,1-Dichloroethylene	0.0256	0.0011	mg/Kg wet	0.0227		113	70-130	5.80	25	
cis-1,2-Dichloroethylene	0.0238	0.0011	mg/Kg wet	0.0227		105	70-130	4.51	25	
trans-1,2-Dichloroethylene	0.0251	0.0011	mg/Kg wet	0.0227		111	70-130	3.24	25	
1,2-Dichloropropane	0.0259	0.0011	mg/Kg wet	0.0227		114	70-130	0.307	25	
1,3-Dichloropropane	0.0229	0.00057	mg/Kg wet	0.0227		101	70-130	0.844	25	
2,2-Dichloropropane	0.0220	0.0011	mg/Kg wet	0.0227		97.0	70-130	2.95	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273990 - SW-846 5035										
LCS Dup (B273990-BSD1)										
Prepared & Analyzed: 01/06/21										
1,1-Dichloropropene	0.0207	0.0023	mg/Kg wet	0.0227		91.5	70-130	4.23	25	
cis-1,3-Dichloropropene	0.0224	0.00057	mg/Kg wet	0.0227		98.7	70-130	0.152	25	
trans-1,3-Dichloropropene	0.0240	0.00057	mg/Kg wet	0.0227		106	70-130	0.189	25	
Diethyl Ether	0.0255	0.0023	mg/Kg wet	0.0227		112	70-130	1.10	25	
Diisopropyl Ether (DIPE)	0.0219	0.00057	mg/Kg wet	0.0227		96.4	70-130	2.31	25	
1,4-Dioxane	0.258	0.057	mg/Kg wet	0.227		114	40-160	12.0	50	† ‡
Ethylbenzene	0.0223	0.0011	mg/Kg wet	0.0227		98.5	70-130	0.355	25	
Hexachlorobutadiene	0.0237	0.0011	mg/Kg wet	0.0227		104	70-160	1.74	25	
2-Hexanone (MBK)	0.221	0.011	mg/Kg wet	0.227		97.7	70-160	1.78	25	†
Isopropylbenzene (Cumene)	0.0229	0.0011	mg/Kg wet	0.0227		101	70-130	0.0495	25	
p-Isopropyltoluene (p-Cymene)	0.0245	0.0011	mg/Kg wet	0.0227		108	70-130	1.10	25	
Methyl Acetate	0.0189	0.011	mg/Kg wet	0.0227		83.5	70-130	1.66	25	
Methyl tert-Butyl Ether (MTBE)	0.0223	0.0011	mg/Kg wet	0.0227		98.3	70-130	3.60	25	
Methyl Cyclohexane	0.0242	0.0011	mg/Kg wet	0.0227		107	70-130	0.00	25	
Methylene Chloride	0.0203	0.0057	mg/Kg wet	0.0227		89.6	40-160	3.35	25	†
4-Methyl-2-pentanone (MIBK)	0.227	0.011	mg/Kg wet	0.227		100	70-160	1.99	25	†
Naphthalene	0.0200	0.0023	mg/Kg wet	0.0227		88.4	40-130	2.58	25	†
n-Propylbenzene	0.0223	0.0011	mg/Kg wet	0.0227		98.2	70-130	0.0510	25	
Styrene	0.0228	0.0011	mg/Kg wet	0.0227		101	70-130	0.298	25	
1,1,1,2-Tetrachloroethane	0.0250	0.0011	mg/Kg wet	0.0227		110	70-130	0.453	25	
1,1,2,2-Tetrachloroethane	0.0232	0.00057	mg/Kg wet	0.0227		102	70-130	3.02	25	
Tetrachloroethylene	0.0255	0.0011	mg/Kg wet	0.0227		113	70-130	0.578	25	
Tetrahydrofuran	0.0234	0.011	mg/Kg wet	0.0227		103	70-130	2.82	25	
Toluene	0.0223	0.0011	mg/Kg wet	0.0227		98.5	70-130	0.557	25	
1,2,3-Trichlorobenzene	0.0202	0.0057	mg/Kg wet	0.0227		89.0	70-130	3.08	25	
1,2,4-Trichlorobenzene	0.0221	0.0011	mg/Kg wet	0.0227		97.4	70-130	1.12	25	
1,3,5-Trichlorobenzene	0.0218	0.0011	mg/Kg wet	0.0227		96.0	70-130	0.726	25	
1,1,1-Trichloroethane	0.0236	0.0011	mg/Kg wet	0.0227		104	70-130	1.48	25	
1,1,2-Trichloroethane	0.0242	0.0011	mg/Kg wet	0.0227		107	70-130	0.659	25	
Trichloroethylene	0.0246	0.0011	mg/Kg wet	0.0227		108	70-130	2.05	25	
Trichlorofluoromethane (Freon 11)	0.0201	0.0023	mg/Kg wet	0.0227		88.6	70-130	4.03	25	
1,2,3-Trichloropropane	0.0261	0.0023	mg/Kg wet	0.0227		115	70-130	4.26	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0234	0.0011	mg/Kg wet	0.0227		103	70-130	3.51	25	
1,2,3-Trimethylbenzene	0.0222	0.00057	mg/Kg wet	0.0227		98.0	70-130	0.712	25	
1,2,4-Trimethylbenzene	0.0218	0.0011	mg/Kg wet	0.0227		96.1	70-130	0.467	25	
1,3,5-Trimethylbenzene	0.0231	0.0011	mg/Kg wet	0.0227		102	70-130	1.33	25	
Vinyl Chloride	0.0188	0.0023	mg/Kg wet	0.0227		82.9	40-130	3.38	25	†
m+p Xylene	0.0448	0.0023	mg/Kg wet	0.0453		98.8	70-130	1.06	25	
o-Xylene	0.0225	0.0011	mg/Kg wet	0.0227		99.0	70-130	0.253	25	
Surrogate: 1,2-Dichloroethane-d4	0.0264		mg/Kg wet	0.0283		93.0	70-130			
Surrogate: Toluene-d8	0.0287		mg/Kg wet	0.0283		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0289		mg/Kg wet	0.0283		102	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273992 - SW-846 5035										
Blank (B273992-BLK1)										
Prepared & Analyzed: 01/06/21										
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							V-05
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273992 - SW-846 5035

Blank (B273992-BLK1)

Prepared & Analyzed: 01/06/21

Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,3-Trimethylbenzene	ND	0.020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0538		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0512		mg/Kg wet	0.0500		102	70-130			

LCS (B273992-BS1)

Prepared & Analyzed: 01/06/21

Acetone	0.172	0.10	mg/Kg wet	0.200		85.9	70-160			†
Acrylonitrile	0.0182	0.0060	mg/Kg wet	0.0200		91.0	70-130			
tert-Amyl Methyl Ether (TAME)	0.0171	0.0010	mg/Kg wet	0.0200		85.3	70-130			
Benzene	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130			
Bromobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130			
Bromochloromethane	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Bromoform	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
Bromomethane	0.0174	0.010	mg/Kg wet	0.0200		87.2	40-130		V-34	†
2-Butanone (MEK)	0.182	0.040	mg/Kg wet	0.200		90.9	70-160			†
tert-Butyl Alcohol (TBA)	0.164	0.040	mg/Kg wet	0.200		82.0	40-130			†
n-Butylbenzene	0.0172	0.0020	mg/Kg wet	0.0200		86.2	70-130			
sec-Butylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130			
tert-Butylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0180	0.0010	mg/Kg wet	0.0200		89.8	70-130			
Carbon Disulfide	0.170	0.0060	mg/Kg wet	0.200		85.0	70-130			
Carbon Tetrachloride	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Chlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130			
Chlorodibromomethane	0.0196	0.0010	mg/Kg wet	0.0200		98.0	70-130			
Chloroethane	0.0168	0.020	mg/Kg wet	0.0200		83.8	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273992 - SW-846 5035										
LCS (B273992-BS1)										
Prepared & Analyzed: 01/06/21										
Chloroform	0.0176	0.0040	mg/Kg wet	0.0200		87.9	70-130			
Chloromethane	0.0178	0.010	mg/Kg wet	0.0200		89.2	70-130			
2-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
4-Chlorotoluene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130			
1,2-Dibromoethane (EDB)	0.0180	0.0010	mg/Kg wet	0.0200		90.0	70-130			
Dibromomethane	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
1,2-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
1,3-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130			
1,4-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130			
trans-1,4-Dichloro-2-butene	0.0138	0.0040	mg/Kg wet	0.0200		68.9 *	70-130			L-07, V-05
Dichlorodifluoromethane (Freon 12)	0.0170	0.020	mg/Kg wet	0.0200		85.0	40-160			†
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,2-Dichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloroethylene	0.0191	0.0040	mg/Kg wet	0.0200		95.4	70-130			
cis-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130			
trans-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
1,2-Dichloropropane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
1,3-Dichloropropane	0.0188	0.0010	mg/Kg wet	0.0200		94.0	70-130			
2,2-Dichloropropane	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130			
1,1-Dichloropropene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
cis-1,3-Dichloropropene	0.0173	0.0010	mg/Kg wet	0.0200		86.4	70-130			
trans-1,3-Dichloropropene	0.0171	0.0010	mg/Kg wet	0.0200		85.7	70-130			
Diethyl Ether	0.0174	0.020	mg/Kg wet	0.0200		86.9	70-130			
Diisopropyl Ether (DIPE)	0.0192	0.0010	mg/Kg wet	0.0200		96.1	70-130			
1,4-Dioxane	0.181	0.10	mg/Kg wet	0.200		90.4	40-160			†
Ethylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130			
Hexachlorobutadiene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-160			
2-Hexanone (MBK)	0.180	0.020	mg/Kg wet	0.200		89.8	70-160			†
Isopropylbenzene (Cumene)	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
p-Isopropyltoluene (p-Cymene)	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
Methyl Acetate	0.0289	0.0020	mg/Kg wet	0.0200		145 *	70-130			L-02, V-20
Methyl tert-Butyl Ether (MTBE)	0.0176	0.0040	mg/Kg wet	0.0200		88.0	70-130			
Methyl Cyclohexane	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130			
Methylene Chloride	0.0189	0.020	mg/Kg wet	0.0200		94.7	40-160			†
4-Methyl-2-pentanone (MIBK)	0.186	0.020	mg/Kg wet	0.200		93.0	70-160			†
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.7	40-130			†
n-Propylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,1,1,2-Tetrachloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,2,2-Tetrachloroethane	0.0178	0.0010	mg/Kg wet	0.0200		89.2	70-130			
Tetrachloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
Tetrahydrofuran	0.0178	0.010	mg/Kg wet	0.0200		89.2	70-130			
Toluene	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130			
1,2,3-Trichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130			
1,2,4-Trichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
1,3,5-Trichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130			
1,1,1-Trichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
1,1,2-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
Trichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
Trichlorofluoromethane (Freon 11)	0.0198	0.010	mg/Kg wet	0.0200		99.0	70-130			
1,2,3-Trichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273992 - SW-846 5035										
LCS (B273992-BS1)										
Prepared & Analyzed: 01/06/21										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0178	0.010	mg/Kg wet	0.0200		89.2	70-130			
1,2,3-Trimethylbenzene	0.0175	0.020	mg/Kg wet	0.0200		87.3	70-130			
1,2,4-Trimethylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130			
1,3,5-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130			
Vinyl Chloride	0.0174	0.010	mg/Kg wet	0.0200		87.0	40-130			†
m+p Xylene	0.0370	0.0040	mg/Kg wet	0.0400		92.6	70-130			
o-Xylene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B273992-BSD1)										
Prepared & Analyzed: 01/06/21										
Acetone	0.180	0.10	mg/Kg wet	0.200		89.9	70-160	4.54	25	†
Acrylonitrile	0.0187	0.0060	mg/Kg wet	0.0200		93.3	70-130	2.46	25	
tert-Amyl Methyl Ether (TAME)	0.0176	0.0010	mg/Kg wet	0.0200		88.0	70-130	3.15	25	
Benzene	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130	1.09	25	
Bromobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130	0.155	25	
Bromochloromethane	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	5.70	25	
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	1.25	25	
Bromoform	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130	1.95	25	
Bromomethane	0.0171	0.010	mg/Kg wet	0.0200		85.6	40-130	1.78	25	V-34 †
2-Butanone (MEK)	0.183	0.040	mg/Kg wet	0.200		91.4	70-160	0.561	25	†
tert-Butyl Alcohol (TBA)	0.159	0.040	mg/Kg wet	0.200		79.3	40-130	3.33	25	†
n-Butylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130	0.728	25	
sec-Butylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130	0.196	25	
tert-Butylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-160	0.599	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0179	0.0010	mg/Kg wet	0.0200		89.5	70-130	0.257	25	
Carbon Disulfide	0.173	0.0060	mg/Kg wet	0.200		86.6	70-130	1.94	25	
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	0.562	25	
Chlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130	1.12	25	
Chlorodibromomethane	0.0195	0.0010	mg/Kg wet	0.0200		97.3	70-130	0.666	25	
Chloroethane	0.0167	0.020	mg/Kg wet	0.0200		83.3	70-130	0.598	25	
Chloroform	0.0178	0.0040	mg/Kg wet	0.0200		88.8	70-130	0.917	25	
Chloromethane	0.0174	0.010	mg/Kg wet	0.0200		86.8	70-130	2.81	25	
2-Chlorotoluene	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130	2.70	25	
4-Chlorotoluene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130	0.963	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130	4.29	25	
1,2-Dibromoethane (EDB)	0.0185	0.0010	mg/Kg wet	0.0200		92.4	70-130	2.67	25	
Dibromomethane	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	2.31	25	
1,2-Dichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130	0.237	25	
1,3-Dichlorobenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130	0.768	25	
1,4-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130	0.214	25	
trans-1,4-Dichloro-2-butene	0.0147	0.0040	mg/Kg wet	0.0200		73.3	70-130	6.20	25	V-05
Dichlorodifluoromethane (Freon 12)	0.0163	0.020	mg/Kg wet	0.0200		81.6	40-160	4.14	25	†
1,1-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130	0.169	25	
1,2-Dichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	0.447	25	
1,1-Dichloroethylene	0.0195	0.0040	mg/Kg wet	0.0200		97.6	70-130	2.29	25	
cis-1,2-Dichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130	1.29	25	
trans-1,2-Dichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	0.762	25	
1,2-Dichloropropane	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	3.10	25	
1,3-Dichloropropane	0.0185	0.0010	mg/Kg wet	0.0200		92.7	70-130	1.39	25	
2,2-Dichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.3	70-130	1.25	25	

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273992 - SW-846 5035										
LCS Dup (B273992-BSD1)										
Prepared & Analyzed: 01/06/21										
1,1-Dichloropropene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.514	25	
cis-1,3-Dichloropropene	0.0180	0.0010	mg/Kg wet	0.0200		89.8	70-130	3.93	25	
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.4	70-130	6.45	25	
Diethyl Ether	0.0177	0.020	mg/Kg wet	0.0200		88.4	70-130	1.65	25	
Diisopropyl Ether (DIPE)	0.0190	0.0010	mg/Kg wet	0.0200		95.0	70-130	1.18	25	
1,4-Dioxane	0.174	0.10	mg/Kg wet	0.200		86.9	40-160	3.91	50	† ‡
Ethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	1.53	25	
Hexachlorobutadiene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-160	1.41	25	
2-Hexanone (MBK)	0.182	0.020	mg/Kg wet	0.200		90.9	70-160	1.22	25	†
Isopropylbenzene (Cumene)	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130	0.271	25	
p-Isopropyltoluene (p-Cymene)	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130	0.686	25	
Methyl Acetate	0.0300	0.0020	mg/Kg wet	0.0200		150 *	70-130	3.58	25	L-02, V-20
Methyl tert-Butyl Ether (MTBE)	0.0178	0.0040	mg/Kg wet	0.0200		89.2	70-130	1.37	25	
Methyl Cyclohexane	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130	1.45	25	
Methylene Chloride	0.0191	0.020	mg/Kg wet	0.0200		95.7	40-160	1.04	25	†
4-Methyl-2-pentanone (MIBK)	0.186	0.020	mg/Kg wet	0.200		93.0	70-160	0.0280	25	†
Naphthalene	0.0169	0.0040	mg/Kg wet	0.0200		84.7	40-130	2.34	25	†
n-Propylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130	0.305	25	
Styrene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130	1.61	25	
1,1,1,2-Tetrachloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.269	25	
1,1,2,2-Tetrachloroethane	0.0170	0.0010	mg/Kg wet	0.0200		84.8	70-130	5.05	25	
Tetrachloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	1.44	25	
Tetrahydrofuran	0.0174	0.010	mg/Kg wet	0.0200		87.0	70-130	2.45	25	
Toluene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130	2.90	25	
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	1.22	25	
1,2,4-Trichlorobenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.1	70-130	0.295	25	
1,3,5-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130	1.32	25	
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130	2.06	25	
1,1,2-Trichloroethane	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130	0.906	25	
Trichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	4.79	25	
Trichlorofluoromethane (Freon 11)	0.0201	0.010	mg/Kg wet	0.0200		100	70-130	1.43	25	
1,2,3-Trichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130	5.05	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0176	0.010	mg/Kg wet	0.0200		88.1	70-130	1.21	25	
1,2,3-Trimethylbenzene	0.0173	0.020	mg/Kg wet	0.0200		86.6	70-130	0.747	25	
1,2,4-Trimethylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	0.277	25	
1,3,5-Trimethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130	1.11	25	
Vinyl Chloride	0.0168	0.010	mg/Kg wet	0.0200		83.9	40-130	3.66	25	†
m+p Xylene	0.0370	0.0040	mg/Kg wet	0.0400		92.5	70-130	0.0756	25	
o-Xylene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130	0.181	25	
Surrogate: 1,2-Dichloroethane-d4	0.0511		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273912 - SW-846 3546
Blank (B273912-BLK1)

Prepared: 01/05/21 Analyzed: 01/06/21

Acenaphthene	ND	0.085	mg/Kg wet							
Acenaphthylene	ND	0.085	mg/Kg wet							
Acetophenone	ND	0.17	mg/Kg wet							V-06
Aniline	ND	0.17	mg/Kg wet							
Anthracene	ND	0.085	mg/Kg wet							
Benzidine	ND	0.33	mg/Kg wet							V-04, V-05, V-35
Benzo(a)anthracene	ND	0.085	mg/Kg wet							
Benzo(a)pyrene	ND	0.085	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.085	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.085	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.085	mg/Kg wet							
Benzoic Acid	ND	0.50	mg/Kg wet							L-04, V-06
Bis(2-chloroethoxy)methane	ND	0.17	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.17	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.17	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.17	mg/Kg wet							
4-Bromophenylphenylether	ND	0.17	mg/Kg wet							
Butylbenzylphthalate	ND	0.17	mg/Kg wet							
Carbazole	ND	0.085	mg/Kg wet							
4-Chloroaniline	ND	0.33	mg/Kg wet							V-34
4-Chloro-3-methylphenol	ND	0.33	mg/Kg wet							
2-Chloronaphthalene	ND	0.17	mg/Kg wet							
2-Chlorophenol	ND	0.17	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.17	mg/Kg wet							
Chrysene	ND	0.085	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.085	mg/Kg wet							
Dibenzofuran	ND	0.17	mg/Kg wet							
Di-n-butylphthalate	ND	0.17	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.17	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.17	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.17	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.085	mg/Kg wet							
2,4-Dichlorophenol	ND	0.17	mg/Kg wet							
Diethylphthalate	ND	0.17	mg/Kg wet							
2,4-Dimethylphenol	ND	0.17	mg/Kg wet							
Dimethylphthalate	ND	0.17	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.17	mg/Kg wet							
2,4-Dinitrophenol	ND	0.33	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.17	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.17	mg/Kg wet							
Di-n-octylphthalate	ND	0.17	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.085	mg/Kg wet							
Fluorene	ND	0.085	mg/Kg wet							
Hexachlorobenzene	ND	0.17	mg/Kg wet							
Hexachlorobutadiene	ND	0.17	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.17	mg/Kg wet							
Hexachloroethane	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.085	mg/Kg wet							
Isophorone	ND	0.17	mg/Kg wet							
1-Methylnaphthalene	ND	0.085	mg/Kg wet							
2-Methylnaphthalene	ND	0.085	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273912 - SW-846 3546

Blank (B273912-BLK1)

Prepared: 01/05/21 Analyzed: 01/06/21

2-Methylphenol	ND	0.17	mg/Kg wet							
3/4-Methylphenol	ND	0.17	mg/Kg wet							V-06
Naphthalene	ND	0.085	mg/Kg wet							
2-Nitroaniline	ND	0.17	mg/Kg wet							
3-Nitroaniline	ND	0.17	mg/Kg wet							
4-Nitroaniline	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.17	mg/Kg wet							
2-Nitrophenol	ND	0.17	mg/Kg wet							
4-Nitrophenol	ND	0.33	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.17	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.17	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.17	mg/Kg wet							
Pentachloronitrobenzene	ND	0.17	mg/Kg wet							
Pentachlorophenol	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.085	mg/Kg wet							
Phenol	ND	0.17	mg/Kg wet							
Pyrene	ND	0.085	mg/Kg wet							
Pyridine	ND	0.17	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.17	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.17	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.17	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.17	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.26		mg/Kg wet	6.67		78.9	30-130			
Surrogate: Phenol-d6	5.85		mg/Kg wet	6.67		87.7	30-130			
Surrogate: Nitrobenzene-d5	2.40		mg/Kg wet	3.33		71.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.64		mg/Kg wet	3.33		79.2	30-130			
Surrogate: 2,4,6-Tribromophenol	2.89		mg/Kg wet	3.33		86.6	30-130			
Surrogate: p-Terphenyl-d14	2.97		mg/Kg wet	3.33		89.1	30-130			

LCS (B273912-BS1)

Prepared: 01/05/21 Analyzed: 01/06/21

Acenaphthene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140			
Acenaphthylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140			
Acetophenone	1.30	0.34	mg/Kg wet	1.67		78.1	40-140			V-06
Aniline	1.11	0.34	mg/Kg wet	1.67		66.6	10-140			†
Anthracene	1.38	0.17	mg/Kg wet	1.67		83.0	40-140			
Benzidine	1.98	0.66	mg/Kg wet	1.67		119	40-140			V-04, V-05, V-35
Benzo(a)anthracene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140			
Benzo(a)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140			
Benzo(b)fluoranthene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzo(g,h,i)perylene	1.51	0.17	mg/Kg wet	1.67		90.5	40-140			
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Benzoic Acid	0.396	1.0	mg/Kg wet	1.67		23.7	* 30-130			L-04, V-06
Bis(2-chloroethoxy)methane	1.22	0.34	mg/Kg wet	1.67		73.1	40-140			
Bis(2-chloroethyl)ether	1.19	0.34	mg/Kg wet	1.67		71.2	40-140			
Bis(2-chloroisopropyl)ether	1.29	0.34	mg/Kg wet	1.67		77.7	40-140			
Bis(2-Ethylhexyl)phthalate	1.48	0.34	mg/Kg wet	1.67		88.9	40-140			
4-Bromophenylphenylether	1.28	0.34	mg/Kg wet	1.67		76.9	40-140			
Butylbenzylphthalate	1.38	0.34	mg/Kg wet	1.67		82.7	40-140			
Carbazole	1.32	0.17	mg/Kg wet	1.67		79.2	40-140			
4-Chloroaniline	1.26	0.66	mg/Kg wet	1.67		75.4	10-140			V-34 †
4-Chloro-3-methylphenol	1.30	0.66	mg/Kg wet	1.67		77.9	30-130			
2-Chloronaphthalene	1.09	0.34	mg/Kg wet	1.67		65.3	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273912 - SW-846 3546										
LCS (B273912-BS1)										
Prepared: 01/05/21 Analyzed: 01/06/21										
2-Chlorophenol	1.23	0.34	mg/Kg wet	1.67		73.5	30-130			
4-Chlorophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.5	40-140			
Chrysene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140			
Dibenz(a,h)anthracene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140			
Dibenzofuran	1.29	0.34	mg/Kg wet	1.67		77.3	40-140			
Di-n-butylphthalate	1.39	0.34	mg/Kg wet	1.67		83.5	40-140			
1,2-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.9	40-140			
1,3-Dichlorobenzene	1.07	0.34	mg/Kg wet	1.67		63.9	40-140			
1,4-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.6	40-140			
3,3-Dichlorobenzidine	1.40	0.17	mg/Kg wet	1.67		83.9	20-140			†
2,4-Dichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.5	30-130			
Diethylphthalate	1.29	0.34	mg/Kg wet	1.67		77.6	40-140			
2,4-Dimethylphenol	1.31	0.34	mg/Kg wet	1.67		78.7	30-130			
Dimethylphthalate	1.28	0.34	mg/Kg wet	1.67		76.7	40-140			
4,6-Dinitro-2-methylphenol	0.959	0.34	mg/Kg wet	1.67		57.5	30-130			
2,4-Dinitrophenol	0.551	0.66	mg/Kg wet	1.67		33.0	30-130			
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
2,6-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.6	40-140			
Di-n-octylphthalate	1.44	0.34	mg/Kg wet	1.67		86.3	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.52	0.34	mg/Kg wet	1.67		91.5	40-140			
Fluoranthene	1.33	0.17	mg/Kg wet	1.67		79.8	40-140			
Fluorene	1.36	0.17	mg/Kg wet	1.67		81.3	40-140			
Hexachlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.2	40-140			
Hexachlorobutadiene	1.15	0.34	mg/Kg wet	1.67		68.7	40-140			
Hexachlorocyclopentadiene	0.909	0.34	mg/Kg wet	1.67		54.5	40-140			
Hexachloroethane	1.17	0.34	mg/Kg wet	1.67		70.2	40-140			
Indeno(1,2,3-cd)pyrene	1.59	0.17	mg/Kg wet	1.67		95.4	40-140			
Isophorone	1.34	0.34	mg/Kg wet	1.67		80.2	40-140			
1-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140			
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140			
2-Methylphenol	1.32	0.34	mg/Kg wet	1.67		79.1	30-130			
3/4-Methylphenol	1.41	0.34	mg/Kg wet	1.67		84.4	30-130			V-06
Naphthalene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
2-Nitroaniline	1.42	0.34	mg/Kg wet	1.67		85.0	40-140			
3-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		79.4	30-140			†
4-Nitroaniline	1.36	0.34	mg/Kg wet	1.67		81.4	40-140			
Nitrobenzene	1.27	0.34	mg/Kg wet	1.67		76.0	40-140			
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.4	30-130			
4-Nitrophenol	1.42	0.66	mg/Kg wet	1.67		85.3	30-130			
N-Nitrosodimethylamine	1.29	0.34	mg/Kg wet	1.67		77.7	40-140			
N-Nitrosodiphenylamine/Diphenylamine	1.36	0.34	mg/Kg wet	1.67		81.5	40-140			
N-Nitrosodi-n-propylamine	1.32	0.34	mg/Kg wet	1.67		78.9	40-140			
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		84.0	40-140			
Pentachlorophenol	1.03	0.34	mg/Kg wet	1.67		62.1	30-130			
Phenanthrene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140			
Phenol	1.28	0.34	mg/Kg wet	1.67		77.0	30-130			
Pyrene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Pyridine	0.844	0.34	mg/Kg wet	1.67		50.6	30-140			†
1,2,4,5-Tetrachlorobenzene	1.22	0.34	mg/Kg wet	1.67		72.9	40-140			
1,2,4-Trichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.8	40-140			
2,4,5-Trichlorophenol	1.28	0.34	mg/Kg wet	1.67		76.8	30-130			
2,4,6-Trichlorophenol	1.32	0.34	mg/Kg wet	1.67		79.0	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273912 - SW-846 3546

LCS (B273912-BS1)

Prepared: 01/05/21 Analyzed: 01/06/21

Surrogate: 2-Fluorophenol	5.76		mg/Kg wet	6.67		86.4	30-130			
Surrogate: Phenol-d6	6.50		mg/Kg wet	6.67		97.5	30-130			
Surrogate: Nitrobenzene-d5	2.62		mg/Kg wet	3.33		78.8	30-130			
Surrogate: 2-Fluorobiphenyl	3.11		mg/Kg wet	3.33		93.4	30-130			
Surrogate: 2,4,6-Tribromophenol	3.22		mg/Kg wet	3.33		96.6	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.33		85.5	30-130			

LCS Dup (B273912-BSD1)

Prepared: 01/05/21 Analyzed: 01/06/21

Acenaphthene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	0.480	30	
Acenaphthylene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140	0.148	30	
Acetophenone	1.33	0.34	mg/Kg wet	1.67		79.6	40-140	1.85	30	V-06
Aniline	1.08	0.34	mg/Kg wet	1.67		64.5	10-140	3.14	50	† ‡
Anthracene	1.39	0.17	mg/Kg wet	1.67		83.4	40-140	0.505	30	
Benzidine	1.91	0.66	mg/Kg wet	1.67		115	40-140	3.55	30	V-04, V-05, V-35
Benzo(a)anthracene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140	1.98	30	
Benzo(a)pyrene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140	1.67	30	
Benzo(b)fluoranthene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	1.90	30	
Benzo(g,h,i)perylene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140	1.21	30	
Benzo(k)fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140	1.68	30	
Benzoic Acid	0.446	1.0	mg/Kg wet	1.67		26.8 *	30-130	12.0	50	L-04, V-06 ‡
Bis(2-chloroethoxy)methane	1.20	0.34	mg/Kg wet	1.67		72.2	40-140	1.18	30	
Bis(2-chloroethyl)ether	1.20	0.34	mg/Kg wet	1.67		72.1	40-140	1.34	30	
Bis(2-chloroisopropyl)ether	1.29	0.34	mg/Kg wet	1.67		77.5	40-140	0.155	30	
Bis(2-Ethylhexyl)phthalate	1.42	0.34	mg/Kg wet	1.67		85.0	40-140	4.51	30	
4-Bromophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.1	40-140	4.99	30	
Butylbenzylphthalate	1.35	0.34	mg/Kg wet	1.67		81.0	40-140	2.08	30	
Carbazole	1.33	0.17	mg/Kg wet	1.67		79.7	40-140	0.680	30	
4-Chloroaniline	1.20	0.66	mg/Kg wet	1.67		72.1	10-140	4.45	30	V-34 †
4-Chloro-3-methylphenol	1.32	0.66	mg/Kg wet	1.67		79.1	30-130	1.60	30	
2-Chloronaphthalene	1.08	0.34	mg/Kg wet	1.67		64.8	40-140	0.768	30	
2-Chlorophenol	1.26	0.34	mg/Kg wet	1.67		75.3	30-130	2.45	30	
4-Chlorophenylphenylether	1.23	0.34	mg/Kg wet	1.67		73.6	40-140	0.136	30	
Chrysene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140	1.82	30	
Dibenz(a,h)anthracene	1.54	0.17	mg/Kg wet	1.67		92.4	40-140	3.50	30	
Dibenzofuran	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	0.336	30	
Di-n-butylphthalate	1.34	0.34	mg/Kg wet	1.67		80.3	40-140	4.00	30	
1,2-Dichlorobenzene	1.12	0.34	mg/Kg wet	1.67		67.3	40-140	0.567	30	
1,3-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	0.565	30	
1,4-Dichlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.8	40-140	1.15	30	
3,3-Dichlorobenzidine	1.34	0.17	mg/Kg wet	1.67		80.4	20-140	4.24	50	† ‡
2,4-Dichlorophenol	1.23	0.34	mg/Kg wet	1.67		74.0	30-130	0.701	30	
Diethylphthalate	1.30	0.34	mg/Kg wet	1.67		77.7	40-140	0.206	30	
2,4-Dimethylphenol	1.30	0.34	mg/Kg wet	1.67		77.8	30-130	1.07	30	
Dimethylphthalate	1.26	0.34	mg/Kg wet	1.67		75.8	40-140	1.21	30	
4,6-Dinitro-2-methylphenol	0.969	0.34	mg/Kg wet	1.67		58.1	30-130	1.04	30	
2,4-Dinitrophenol	0.572	0.66	mg/Kg wet	1.67		34.3	30-130	3.74	30	
2,4-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.7	40-140	1.62	30	
2,6-Dinitrotoluene	1.35	0.34	mg/Kg wet	1.67		80.8	40-140	0.248	30	
Di-n-octylphthalate	1.39	0.34	mg/Kg wet	1.67		83.5	40-140	3.27	30	
1,2-Diphenylhydrazine/Azobenzene	1.52	0.34	mg/Kg wet	1.67		90.9	40-140	0.570	30	
Fluoranthene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	1.06	30	
Fluorene	1.36	0.17	mg/Kg wet	1.67		81.6	40-140	0.295	30	

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273912 - SW-846 3546										
LCS Dup (B273912-BSD1)										
					Prepared: 01/05/21 Analyzed: 01/06/21					
Hexachlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	1.00	30	
Hexachlorobutadiene	1.14	0.34	mg/Kg wet	1.67		68.6	40-140	0.116	30	
Hexachlorocyclopentadiene	0.886	0.34	mg/Kg wet	1.67		53.2	40-140	2.56	30	
Hexachloroethane	1.15	0.34	mg/Kg wet	1.67		69.2	40-140	1.43	30	
Indeno(1,2,3-cd)pyrene	1.63	0.17	mg/Kg wet	1.67		97.7	40-140	2.42	30	
Isophorone	1.34	0.34	mg/Kg wet	1.67		80.3	40-140	0.175	30	
1-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	0.371	30	
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		79.5	40-140	0.527	30	
2-Methylphenol	1.31	0.34	mg/Kg wet	1.67		78.4	30-130	0.915	30	
3/4-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.6	30-130	1.02	30	V-06
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140	0.745	30	
2-Nitroaniline	1.42	0.34	mg/Kg wet	1.67		85.0	40-140	0.0706	30	
3-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		81.0	30-140	1.97	30	†
4-Nitroaniline	1.39	0.34	mg/Kg wet	1.67		83.2	40-140	2.19	30	
Nitrobenzene	1.27	0.34	mg/Kg wet	1.67		76.0	40-140	0.0527	30	
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.2	30-130	0.269	30	
4-Nitrophenol	1.42	0.66	mg/Kg wet	1.67		85.0	30-130	0.305	50	‡
N-Nitrosodimethylamine	1.25	0.34	mg/Kg wet	1.67		75.2	40-140	3.22	30	
N-Nitrosodiphenylamine/Diphenylamine	1.36	0.34	mg/Kg wet	1.67		81.8	40-140	0.343	30	
N-Nitrosodi-n-propylamine	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	0.152	30	
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		83.8	40-140	0.262	30	
Pentachlorophenol	1.04	0.34	mg/Kg wet	1.67		62.3	30-130	0.418	30	
Phenanthrene	1.36	0.17	mg/Kg wet	1.67		81.8	40-140	0.147	30	
Phenol	1.31	0.34	mg/Kg wet	1.67		78.7	30-130	2.21	30	
Pyrene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	3.57	30	
Pyridine	0.784	0.34	mg/Kg wet	1.67		47.0	30-140	7.41	30	†
1,2,4,5-Tetrachlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.3	40-140	0.799	30	
1,2,4-Trichlorobenzene	1.12	0.34	mg/Kg wet	1.67		67.2	40-140	0.686	30	
2,4,5-Trichlorophenol	1.32	0.34	mg/Kg wet	1.67		79.3	30-130	3.18	30	
2,4,6-Trichlorophenol	1.27	0.34	mg/Kg wet	1.67		76.2	30-130	3.61	30	
Surrogate: 2-Fluorophenol	5.85		mg/Kg wet	6.67		87.7	30-130			
Surrogate: Phenol-d6	6.60		mg/Kg wet	6.67		99.0	30-130			
Surrogate: Nitrobenzene-d5	2.62		mg/Kg wet	3.33		78.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.07		mg/Kg wet	3.33		92.0	30-130			
Surrogate: 2,4,6-Tribromophenol	3.26		mg/Kg wet	3.33		97.7	30-130			
Surrogate: p-Terphenyl-d14	2.90		mg/Kg wet	3.33		87.0	30-130			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B273835 - SW-846 3546

Blank (B273835-BLK1)

Prepared: 01/05/21 Analyzed: 01/07/21

C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	2.49		mg/Kg wet	5.00		49.7	40-140			
Surrogate: o-Terphenyl (OTP)	3.20		mg/Kg wet	5.00		64.0	40-140			
Surrogate: 2-Bromonaphthalene	6.43		mg/Kg wet	5.00		129	40-140			
Surrogate: 2-Fluorobiphenyl	6.47		mg/Kg wet	5.00		129	40-140			

LCS (B273835-BS1)

Prepared: 01/05/21 Analyzed: 01/07/21

C9-C18 Aliphatics	22.9	10	mg/Kg wet	30.0		76.5	40-140			
C19-C36 Aliphatics	36.3	10	mg/Kg wet	40.0		90.7	40-140			
Unadjusted C11-C22 Aromatics	79.6	10	mg/Kg wet	85.0		93.6	40-140			
Acenaphthene	4.16	0.10	mg/Kg wet	5.00		83.2	40-140			
Acenaphthylene	3.97	0.10	mg/Kg wet	5.00		79.3	40-140			
Anthracene	4.44	0.10	mg/Kg wet	5.00		88.8	40-140			
Benzo(a)anthracene	4.90	0.10	mg/Kg wet	5.00		97.9	40-140			
Benzo(a)pyrene	4.62	0.10	mg/Kg wet	5.00		92.3	40-140			
Benzo(b)fluoranthene	5.16	0.10	mg/Kg wet	5.00		103	40-140			
Benzo(g,h,i)perylene	4.11	0.10	mg/Kg wet	5.00		82.2	40-140			
Benzo(k)fluoranthene	3.86	0.10	mg/Kg wet	5.00		77.2	40-140			
Chrysene	4.70	0.10	mg/Kg wet	5.00		94.1	40-140			
Dibenz(a,h)anthracene	4.43	0.10	mg/Kg wet	5.00		88.7	40-140			
Fluoranthene	4.63	0.10	mg/Kg wet	5.00		92.6	40-140			
Fluorene	4.33	0.10	mg/Kg wet	5.00		86.6	40-140			
Indeno(1,2,3-cd)pyrene	4.13	0.10	mg/Kg wet	5.00		82.6	40-140			
2-Methylnaphthalene	3.90	0.10	mg/Kg wet	5.00		78.1	40-140			
Naphthalene	3.76	0.10	mg/Kg wet	5.00		75.2	40-140			
Phenanthrene	4.57	0.10	mg/Kg wet	5.00		91.4	40-140			
Pyrene	4.70	0.10	mg/Kg wet	5.00		94.0	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	3.64		mg/Kg wet	5.00		72.8	40-140			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B273835 - SW-846 3546										
LCS (B273835-BS1)					Prepared: 01/05/21 Analyzed: 01/07/21					
Surrogate: o-Terphenyl (OTP)	4.51		mg/Kg wet	5.00		90.3	40-140			
Surrogate: 2-Bromonaphthalene	6.66		mg/Kg wet	5.00		133	40-140			
Surrogate: 2-Fluorobiphenyl	6.86		mg/Kg wet	5.00		137	40-140			
LCS Dup (B273835-BSD1)					Prepared: 01/05/21 Analyzed: 01/07/21					
C9-C18 Aliphatics	23.4	10	mg/Kg wet	30.0		77.9	40-140	1.86	25	
C19-C36 Aliphatics	38.1	10	mg/Kg wet	40.0		95.2	40-140	4.91	25	
Unadjusted C11-C22 Aromatics	84.9	10	mg/Kg wet	85.0		99.9	40-140	6.51	25	
Acenaphthene	4.43	0.10	mg/Kg wet	5.00		88.6	40-140	6.36	25	
Acenaphthylene	4.18	0.10	mg/Kg wet	5.00		83.7	40-140	5.36	25	
Anthracene	4.86	0.10	mg/Kg wet	5.00		97.2	40-140	9.07	25	
Benzo(a)anthracene	5.32	0.10	mg/Kg wet	5.00		106	40-140	8.28	25	
Benzo(a)pyrene	5.01	0.10	mg/Kg wet	5.00		100	40-140	8.26	25	
Benzo(b)fluoranthene	5.60	0.10	mg/Kg wet	5.00		112	40-140	8.13	25	
Benzo(g,h,i)perylene	4.46	0.10	mg/Kg wet	5.00		89.1	40-140	8.05	25	
Benzo(k)fluoranthene	4.20	0.10	mg/Kg wet	5.00		84.1	40-140	8.54	25	
Chrysene	5.11	0.10	mg/Kg wet	5.00		102	40-140	8.19	25	
Dibenz(a,h)anthracene	4.80	0.10	mg/Kg wet	5.00		96.1	40-140	7.98	25	
Fluoranthene	5.05	0.10	mg/Kg wet	5.00		101	40-140	8.67	25	
Fluorene	4.67	0.10	mg/Kg wet	5.00		93.5	40-140	7.64	25	
Indeno(1,2,3-cd)pyrene	4.49	0.10	mg/Kg wet	5.00		89.8	40-140	8.26	25	
2-Methylnaphthalene	3.99	0.10	mg/Kg wet	5.00		79.9	40-140	2.25	25	
Naphthalene	3.75	0.10	mg/Kg wet	5.00		74.9	40-140	0.416	25	
Phenanthrene	4.98	0.10	mg/Kg wet	5.00		99.6	40-140	8.58	25	
Pyrene	5.12	0.10	mg/Kg wet	5.00		102	40-140	8.52	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	3.77		mg/Kg wet	5.00		75.4	40-140			
Surrogate: o-Terphenyl (OTP)	4.85		mg/Kg wet	5.00		97.1	40-140			
Surrogate: 2-Bromonaphthalene	6.86		mg/Kg wet	5.00		137	40-140			
Surrogate: 2-Fluorobiphenyl	6.98		mg/Kg wet	5.00		140	40-140			

QUALITY CONTROL
SPLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274239 - SW-846 5030B										
Blank (B274239-BLK1)										
Prepared & Analyzed: 01/08/21										
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-34
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							V-05
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05, V-34
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							V-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

QUALITY CONTROL
SPLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274239 - SW-846 5030B
Blank (B274239-BLK1)

Prepared & Analyzed: 01/08/21

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	11	5.0	µg/L							B-01
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,3-Trimethylbenzene	0.0		µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Acetate	ND	20	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.6		µg/L	25.0		94.4	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

LCS (B274239-BS1)

Prepared & Analyzed: 01/08/21

Acetone	89.1	50	µg/L	100		89.1	70-160			†
Acrylonitrile	9.87	5.0	µg/L	10.0		98.7	70-130			
tert-Amyl Methyl Ether (TAME)	8.63	0.50	µg/L	10.0		86.3	70-130			
Benzene	9.07	1.0	µg/L	10.0		90.7	70-130			
Bromobenzene	9.80	1.0	µg/L	10.0		98.0	70-130			
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130			
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130			
Bromoform	9.48	1.0	µg/L	10.0		94.8	70-130			
Bromomethane	15.4	2.0	µg/L	10.0		154	40-160			V-20, V-34 †
2-Butanone (MEK)	88.3	20	µg/L	100		88.3	40-160			†
tert-Butyl Alcohol (TBA)	113	20	µg/L	100		113	40-160			†
n-Butylbenzene	9.07	1.0	µg/L	10.0		90.7	70-130			
sec-Butylbenzene	9.14	1.0	µg/L	10.0		91.4	70-130			
tert-Butylbenzene	9.94	1.0	µg/L	10.0		99.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.75	0.50	µg/L	10.0		97.5	70-130			
Carbon Disulfide	79.0	5.0	µg/L	100		79.0	70-130			V-05
Carbon Tetrachloride	9.65	5.0	µg/L	10.0		96.5	70-130			
Chlorobenzene	9.70	1.0	µg/L	10.0		97.0	70-130			
Chlorodibromomethane	10.3	0.50	µg/L	10.0		103	70-130			

QUALITY CONTROL

SPLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274239 - SW-846 5030B										
LCS (B274239-BS1)										
Prepared & Analyzed: 01/08/21										
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130			
Chloroform	9.34	2.0	µg/L	10.0		93.4	70-130			
Chloromethane	4.23	2.0	µg/L	10.0		42.3	40-160			V-34, V-05 †
2-Chlorotoluene	9.20	1.0	µg/L	10.0		92.0	70-130			
4-Chlorotoluene	9.39	1.0	µg/L	10.0		93.9	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.04	5.0	µg/L	10.0		90.4	70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130			
Dibromomethane	9.76	1.0	µg/L	10.0		97.6	70-130			
1,2-Dichlorobenzene	9.40	1.0	µg/L	10.0		94.0	70-130			
1,3-Dichlorobenzene	9.45	1.0	µg/L	10.0		94.5	70-130			
1,4-Dichlorobenzene	9.49	1.0	µg/L	10.0		94.9	70-130			
trans-1,4-Dichloro-2-butene	8.04	2.0	µg/L	10.0		80.4	70-130			V-05
Dichlorodifluoromethane (Freon 12)	9.24	2.0	µg/L	10.0		92.4	40-160			†
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	70-130			
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
2,2-Dichloropropane	9.39	1.0	µg/L	10.0		93.9	40-130			†
1,1-Dichloropropene	9.94	2.0	µg/L	10.0		99.4	70-130			
cis-1,3-Dichloropropene	9.92	0.50	µg/L	10.0		99.2	70-130			
trans-1,3-Dichloropropene	9.76	0.50	µg/L	10.0		97.6	70-130			
Diethyl Ether	10.1	2.0	µg/L	10.0		101	70-130			
Diisopropyl Ether (DIPE)	9.29	0.50	µg/L	10.0		92.9	70-130			
1,4-Dioxane	107	50	µg/L	100		107	40-130			†
Ethylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130			
Hexachlorobutadiene	10.0	0.60	µg/L	10.0		100	70-130			
2-Hexanone (MBK)	100	10	µg/L	100		100	70-160			†
Isopropylbenzene (Cumene)	9.47	1.0	µg/L	10.0		94.7	70-130			
p-Isopropyltoluene (p-Cymene)	9.95	1.0	µg/L	10.0		99.5	70-130			
Methyl Acetate	12.5	1.0	µg/L	10.0		125	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	9.42	1.0	µg/L	10.0		94.2	70-130			
Methyl Cyclohexane	10.1	1.0	µg/L	10.0		101	70-130			
Methylene Chloride	9.13	5.0	µg/L	10.0		91.3	70-130			B
4-Methyl-2-pentanone (MIBK)	100	10	µg/L	100		100	70-160			†
Naphthalene	7.96	2.0	µg/L	10.0		79.6	40-130			†
n-Propylbenzene	9.15	1.0	µg/L	10.0		91.5	70-130			
Styrene	9.53	1.0	µg/L	10.0		95.3	70-130			
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100	70-130			
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
Tetrahydrofuran	9.04	10	µg/L	10.0		90.4	70-130			
Toluene	9.46	1.0	µg/L	10.0		94.6	70-130			
1,2,3-Trichlorobenzene	8.01	5.0	µg/L	10.0		80.1	70-130			
1,2,4-Trichlorobenzene	9.01	1.0	µg/L	10.0		90.1	70-130			
1,3,5-Trichlorobenzene	9.44	1.0	µg/L	10.0		94.4	70-130			
1,1,1-Trichloroethane	9.95	1.0	µg/L	10.0		99.5	70-130			
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
Trichloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Trichlorofluoromethane (Freon 11)	9.48	2.0	µg/L	10.0		94.8	70-130			

QUALITY CONTROL

SPLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274239 - SW-846 5030B

LCS (B274239-BS1)

Prepared & Analyzed: 01/08/21

1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.84	1.0	µg/L	10.0		98.4	70-130			
1,2,3-Trimethylbenzene	9.35		µg/L	10.0		93.5	70-130			
1,2,4-Trimethylbenzene	9.26	1.0	µg/L	10.0		92.6	70-130			
1,3,5-Trimethylbenzene	9.62	1.0	µg/L	10.0		96.2	70-130			
Vinyl Acetate	92.1	20	µg/L	100		92.1	70-130			
Vinyl Chloride	9.39	2.0	µg/L	10.0		93.9	40-160			†
m+p Xylene	19.7	2.0	µg/L	20.0		98.5	70-130			
o-Xylene	9.32	1.0	µg/L	10.0		93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.6		µg/L	25.0		90.6	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		100	70-130			

LCS Dup (B274239-BS1)

Prepared & Analyzed: 01/08/21

Acetone	85.1	50	µg/L	100		85.1	70-160	4.68	25	†
Acrylonitrile	9.55	5.0	µg/L	10.0		95.5	70-130	3.30	25	
tert-Amyl Methyl Ether (TAME)	8.80	0.50	µg/L	10.0		88.0	70-130	1.95	25	
Benzene	8.99	1.0	µg/L	10.0		89.9	70-130	0.886	25	
Bromobenzene	9.60	1.0	µg/L	10.0		96.0	70-130	2.06	25	
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130	0.865	25	
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130	3.43	25	
Bromoform	9.20	1.0	µg/L	10.0		92.0	70-130	3.00	25	
Bromomethane	16.3	2.0	µg/L	10.0		163 *	40-160	5.43	25	L-07, V-20, V-34 †
2-Butanone (MEK)	82.8	20	µg/L	100		82.8	40-160	6.48	25	†
tert-Butyl Alcohol (TBA)	101	20	µg/L	100		101	40-160	11.4	25	†
n-Butylbenzene	8.56	1.0	µg/L	10.0		85.6	70-130	5.79	25	
sec-Butylbenzene	8.75	1.0	µg/L	10.0		87.5	70-130	4.36	25	
tert-Butylbenzene	9.40	1.0	µg/L	10.0		94.0	70-130	5.58	25	
tert-Butyl Ethyl Ether (TBEE)	9.40	0.50	µg/L	10.0		94.0	70-130	3.66	25	
Carbon Disulfide	77.7	5.0	µg/L	100		77.7	70-130	1.63	25	V-05
Carbon Tetrachloride	9.20	5.0	µg/L	10.0		92.0	70-130	4.77	25	
Chlorobenzene	9.35	1.0	µg/L	10.0		93.5	70-130	3.67	25	
Chlorodibromomethane	9.99	0.50	µg/L	10.0		99.9	70-130	2.67	25	
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130	0.190	25	
Chloroform	9.16	2.0	µg/L	10.0		91.6	70-130	1.95	25	
Chloromethane	4.24	2.0	µg/L	10.0		42.4	40-160	0.236	25	V-05, V-34 †
2-Chlorotoluene	9.15	1.0	µg/L	10.0		91.5	70-130	0.545	25	
4-Chlorotoluene	9.26	1.0	µg/L	10.0		92.6	70-130	1.39	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.43	5.0	µg/L	10.0		84.3	70-130	6.98	25	
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130	1.91	25	
Dibromomethane	9.87	1.0	µg/L	10.0		98.7	70-130	1.12	25	
1,2-Dichlorobenzene	9.02	1.0	µg/L	10.0		90.2	70-130	4.13	25	
1,3-Dichlorobenzene	9.12	1.0	µg/L	10.0		91.2	70-130	3.55	25	
1,4-Dichlorobenzene	9.03	1.0	µg/L	10.0		90.3	70-130	4.97	25	
trans-1,4-Dichloro-2-butene	7.72	2.0	µg/L	10.0		77.2	70-130	4.06	25	V-05
Dichlorodifluoromethane (Freon 12)	8.94	2.0	µg/L	10.0		89.4	40-160	3.30	25	†
1,1-Dichloroethane	9.85	1.0	µg/L	10.0		98.5	70-130	2.80	25	
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130	0.0917	25	
1,1-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	2.05	25	
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	0.985	25	
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	0.768	25	
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130	5.08	25	

QUALITY CONTROL

SPLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274239 - SW-846 5030B										
LCS Dup (B274239-BSD1)										
Prepared & Analyzed: 01/08/21										
1,3-Dichloropropane	9.93	0.50	µg/L	10.0		99.3	70-130	1.30	25	
2,2-Dichloropropane	9.24	1.0	µg/L	10.0		92.4	40-130	1.61	25	†
1,1-Dichloropropene	9.71	2.0	µg/L	10.0		97.1	70-130	2.34	25	
cis-1,3-Dichloropropene	9.63	0.50	µg/L	10.0		96.3	70-130	2.97	25	
trans-1,3-Dichloropropene	9.68	0.50	µg/L	10.0		96.8	70-130	0.823	25	
Diethyl Ether	9.68	2.0	µg/L	10.0		96.8	70-130	4.64	25	
Diisopropyl Ether (DIPE)	9.01	0.50	µg/L	10.0		90.1	70-130	3.06	25	
1,4-Dioxane	94.0	50	µg/L	100		94.0	40-130	13.4	50	† ‡
Ethylbenzene	9.18	1.0	µg/L	10.0		91.8	70-130	3.32	25	
Hexachlorobutadiene	9.55	0.60	µg/L	10.0		95.5	70-130	5.10	25	
2-Hexanone (MBK)	93.8	10	µg/L	100		93.8	70-160	6.40	25	†
Isopropylbenzene (Cumene)	9.39	1.0	µg/L	10.0		93.9	70-130	0.848	25	
p-Isopropyltoluene (p-Cymene)	9.43	1.0	µg/L	10.0		94.3	70-130	5.37	25	
Methyl Acetate	11.7	1.0	µg/L	10.0		117	70-130	6.78	25	V-20
Methyl tert-Butyl Ether (MTBE)	8.92	1.0	µg/L	10.0		89.2	70-130	5.45	25	
Methyl Cyclohexane	9.90	1.0	µg/L	10.0		99.0	70-130	1.70	25	
Methylene Chloride	9.03	5.0	µg/L	10.0		90.3	70-130	1.10	25	B
4-Methyl-2-pentanone (MIBK)	94.7	10	µg/L	100		94.7	70-160	5.49	25	†
Naphthalene	7.26	2.0	µg/L	10.0		72.6	40-130	9.20	25	†
n-Propylbenzene	9.08	1.0	µg/L	10.0		90.8	70-130	0.768	25	
Styrene	9.33	1.0	µg/L	10.0		93.3	70-130	2.12	25	
1,1,1,2-Tetrachloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.54	25	
1,1,2,2-Tetrachloroethane	9.67	0.50	µg/L	10.0		96.7	70-130	3.56	25	
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.87	25	
Tetrahydrofuran	8.38	10	µg/L	10.0		83.8	70-130	7.58	25	
Toluene	9.45	1.0	µg/L	10.0		94.5	70-130	0.106	25	
1,2,3-Trichlorobenzene	7.47	5.0	µg/L	10.0		74.7	70-130	6.98	25	
1,2,4-Trichlorobenzene	8.54	1.0	µg/L	10.0		85.4	70-130	5.36	25	
1,3,5-Trichlorobenzene	8.98	1.0	µg/L	10.0		89.8	70-130	4.99	25	
1,1,1-Trichloroethane	9.87	1.0	µg/L	10.0		98.7	70-130	0.807	25	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	2.88	25	
Trichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	2.41	25	
Trichlorofluoromethane (Freon 11)	8.87	2.0	µg/L	10.0		88.7	70-130	6.65	25	
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130	3.52	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.46	1.0	µg/L	10.0		94.6	70-130	3.94	25	
1,2,3-Trimethylbenzene	8.93		µg/L	10.0		89.3	70-130	4.60	25	
1,2,4-Trimethylbenzene	8.89	1.0	µg/L	10.0		88.9	70-130	4.08	25	
1,3,5-Trimethylbenzene	9.37	1.0	µg/L	10.0		93.7	70-130	2.63	25	
Vinyl Acetate	88.4	20	µg/L	100		88.4	70-130	4.10	25	
Vinyl Chloride	9.39	2.0	µg/L	10.0		93.9	40-160	0.00	25	†
m+p Xylene	19.1	2.0	µg/L	20.0		95.6	70-130	2.94	25	
o-Xylene	9.04	1.0	µg/L	10.0		90.4	70-130	3.05	25	
Surrogate: 1,2-Dichloroethane-d4	23.1		µg/L	25.0		92.4	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.4	70-130			

QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274109 - SW-846 3510C

Blank (B274109-BLK1)

Prepared: 01/07/21 Analyzed: 01/09/21

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							R-05, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							V-35
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274109 - SW-846 3510C

Blank (B274109-BLK1)

Prepared: 01/07/21 Analyzed: 01/09/21

2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							V-35
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							V-05
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	105		µg/L	200		52.4	15-110			
Surrogate: Phenol-d6	81.5		µg/L	200		40.8	15-110			
Surrogate: Nitrobenzene-d5	76.6		µg/L	100		76.6	30-130			
Surrogate: 2-Fluorobiphenyl	84.7		µg/L	100		84.7	30-130			
Surrogate: 2,4,6-Tribromophenol	139		µg/L	140		99.5	15-110			
Surrogate: p-Terphenyl-d14	105		µg/L	100		105	30-130			

LCS (B274109-BS1)

Prepared & Analyzed: 01/07/21

Acenaphthene	35.8	5.0	µg/L	50.0		71.6	40-140			
Acenaphthylene	38.4	5.0	µg/L	50.0		76.8	40-140			
Acetophenone	38.3	10	µg/L	50.0		76.6	40-140			
Aniline	42.5	5.0	µg/L	50.0		84.9	40-140			
Anthracene	40.6	5.0	µg/L	50.0		81.2	40-140			
Benzidine	57.3	20	µg/L	50.0		115	40-140			V-04, V-05, R-05
Benzo(a)anthracene	38.9	5.0	µg/L	50.0		77.9	40-140			
Benzo(a)pyrene	37.7	5.0	µg/L	50.0		75.4	40-140			
Benzo(b)fluoranthene	38.6	5.0	µg/L	50.0		77.2	40-140			
Benzo(g,h,i)perylene	41.1	5.0	µg/L	50.0		82.2	40-140			
Benzo(k)fluoranthene	38.8	5.0	µg/L	50.0		77.6	40-140			
Benzoic Acid	13.0	10	µg/L	50.0		26.0	10-130			†
Bis(2-chloroethoxy)methane	37.1	10	µg/L	50.0		74.2	40-140			
Bis(2-chloroethyl)ether	39.0	10	µg/L	50.0		78.1	40-140			
Bis(2-chloroisopropyl)ether	48.2	10	µg/L	50.0		96.3	40-140			V-35
Bis(2-Ethylhexyl)phthalate	38.5	10	µg/L	50.0		77.0	40-140			
4-Bromophenylphenylether	36.5	10	µg/L	50.0		73.0	40-140			
Butylbenzylphthalate	40.5	10	µg/L	50.0		81.0	40-140			
Carbazole	39.1	10	µg/L	50.0		78.2	40-140			
4-Chloroaniline	37.3	10	µg/L	50.0		74.6	40-140			V-34
4-Chloro-3-methylphenol	39.5	10	µg/L	50.0		79.1	30-130			
2-Chloronaphthalene	33.0	10	µg/L	50.0		66.1	40-140			

QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274109 - SW-846 3510C										
LCS (B274109-BS1)										
Prepared & Analyzed: 01/07/21										
2-Chlorophenol	33.3	10	µg/L	50.0		66.7	30-130			
4-Chlorophenylphenylether	36.5	10	µg/L	50.0		73.0	40-140			
Chrysene	37.8	5.0	µg/L	50.0		75.6	40-140			
Dibenz(a,h)anthracene	40.4	5.0	µg/L	50.0		80.7	40-140			
Dibenzofuran	38.4	5.0	µg/L	50.0		76.8	40-140			
Di-n-butylphthalate	38.4	10	µg/L	50.0		76.8	40-140			
1,2-Dichlorobenzene	28.2	5.0	µg/L	50.0		56.4	40-140			
1,3-Dichlorobenzene	26.6	5.0	µg/L	50.0		53.2	40-140			
1,4-Dichlorobenzene	27.0	5.0	µg/L	50.0		54.0	40-140			
3,3-Dichlorobenzidine	41.4	10	µg/L	50.0		82.8	40-140			
2,4-Dichlorophenol	35.1	10	µg/L	50.0		70.2	30-130			
Diethylphthalate	38.7	10	µg/L	50.0		77.4	40-140			
2,4-Dimethylphenol	33.5	10	µg/L	50.0		67.0	30-130			
Dimethylphthalate	38.6	10	µg/L	50.0		77.1	40-140			
4,6-Dinitro-2-methylphenol	36.1	10	µg/L	50.0		72.1	30-130			
2,4-Dinitrophenol	34.3	10	µg/L	50.0		68.6	30-130			
2,4-Dinitrotoluene	41.2	10	µg/L	50.0		82.4	40-140			
2,6-Dinitrotoluene	41.9	10	µg/L	50.0		83.8	40-140			
Di-n-octylphthalate	39.4	10	µg/L	50.0		78.7	40-140			
1,2-Diphenylhydrazine/Azobenzene	40.8	10	µg/L	50.0		81.5	40-140			
Fluoranthene	38.5	5.0	µg/L	50.0		77.1	40-140			
Fluorene	38.5	5.0	µg/L	50.0		77.1	40-140			
Hexachlorobenzene	37.4	10	µg/L	50.0		74.8	40-140			
Hexachlorobutadiene	28.0	10	µg/L	50.0		56.0	40-140			
Hexachlorocyclopentadiene	20.1	10	µg/L	50.0		40.3	30-140			V-05 †
Hexachloroethane	26.0	10	µg/L	50.0		51.9	40-140			
Indeno(1,2,3-cd)pyrene	40.4	5.0	µg/L	50.0		80.7	40-140			
Isophorone	41.0	10	µg/L	50.0		82.0	40-140			
1-Methylnaphthalene	33.6	5.0	µg/L	50.0		67.1	40-140			
2-Methylnaphthalene	38.1	5.0	µg/L	50.0		76.1	40-140			
2-Methylphenol	33.7	10	µg/L	50.0		67.5	30-130			
3/4-Methylphenol	33.3	10	µg/L	50.0		66.6	30-130			
Naphthalene	33.0	5.0	µg/L	50.0		66.1	40-140			
2-Nitroaniline	42.9	10	µg/L	50.0		85.7	40-140			V-35
3-Nitroaniline	39.7	10	µg/L	50.0		79.3	40-140			
4-Nitroaniline	38.5	10	µg/L	50.0		77.0	40-140			
Nitrobenzene	34.8	10	µg/L	50.0		69.7	40-140			
2-Nitrophenol	35.5	10	µg/L	50.0		70.9	30-130			
4-Nitrophenol	23.8	10	µg/L	50.0		47.5	10-130			†
N-Nitrosodimethylamine	22.7	10	µg/L	50.0		45.4	40-140			
N-Nitrosodiphenylamine/Diphenylamine	38.7	10	µg/L	50.0		77.5	40-140			
N-Nitrosodi-n-propylamine	39.4	10	µg/L	50.0		78.9	40-140			
Pentachloronitrobenzene	39.6	10	µg/L	50.0		79.3	40-140			
Pentachlorophenol	26.4	10	µg/L	50.0		52.9	30-130			V-05
Phenanthrene	39.9	5.0	µg/L	50.0		79.7	40-140			
Phenol	16.9	10	µg/L	50.0		33.8	20-130			†
Pyrene	41.0	5.0	µg/L	50.0		82.0	40-140			
Pyridine	17.1	5.0	µg/L	50.0		34.2	10-140			†
1,2,4,5-Tetrachlorobenzene	31.6	10	µg/L	50.0		63.2	40-140			
1,2,4-Trichlorobenzene	29.3	5.0	µg/L	50.0		58.6	40-140			
2,4,5-Trichlorophenol	37.2	10	µg/L	50.0		74.3	30-130			
2,4,6-Trichlorophenol	36.6	10	µg/L	50.0		73.2	30-130			

QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274109 - SW-846 3510C

LCS (B274109-BS1)

Prepared & Analyzed: 01/07/21

Surrogate: 2-Fluorophenol	101		µg/L	200		50.7	15-110			
Surrogate: Phenol-d6	79.3		µg/L	200		39.7	15-110			
Surrogate: Nitrobenzene-d5	71.9		µg/L	100		71.9	30-130			
Surrogate: 2-Fluorobiphenyl	81.8		µg/L	100		81.8	30-130			
Surrogate: 2,4,6-Tribromophenol	129		µg/L	140		92.2	15-110			
Surrogate: p-Terphenyl-d14	95.4		µg/L	100		95.4	30-130			

LCS Dup (B274109-BSD1)

Prepared & Analyzed: 01/07/21

Acenaphthene	35.4	5.0	µg/L	50.0		70.7	40-140	1.18	20	
Acenaphthylene	37.0	5.0	µg/L	50.0		74.0	40-140	3.69	20	
Acetophenone	38.0	10	µg/L	50.0		75.9	40-140	0.918	20	
Aniline	38.0	5.0	µg/L	50.0		76.0	40-140	11.2	50	‡
Anthracene	39.9	5.0	µg/L	50.0		79.7	40-140	1.84	20	
Benzidine	46.2	20	µg/L	50.0		92.5	40-140	21.3 *	20	R-05, V-04, V-05
Benzo(a)anthracene	38.6	5.0	µg/L	50.0		77.1	40-140	0.929	20	
Benzo(a)pyrene	36.5	5.0	µg/L	50.0		73.0	40-140	3.18	20	
Benzo(b)fluoranthene	37.9	5.0	µg/L	50.0		75.7	40-140	1.88	20	
Benzo(g,h,i)perylene	40.1	5.0	µg/L	50.0		80.3	40-140	2.44	20	
Benzo(k)fluoranthene	38.2	5.0	µg/L	50.0		76.5	40-140	1.40	20	
Benzoic Acid	14.3	10	µg/L	50.0		28.7	10-130	9.73	50	‡ †
Bis(2-chloroethoxy)methane	37.6	10	µg/L	50.0		75.1	40-140	1.29	20	
Bis(2-chloroethyl)ether	38.0	10	µg/L	50.0		75.9	40-140	2.86	20	
Bis(2-chloroisopropyl)ether	47.7	10	µg/L	50.0		95.5	40-140	0.876	20	V-35
Bis(2-Ethylhexyl)phthalate	36.8	10	µg/L	50.0		73.6	40-140	4.57	20	
4-Bromophenylphenylether	35.6	10	µg/L	50.0		71.2	40-140	2.55	20	
Butylbenzylphthalate	40.2	10	µg/L	50.0		80.5	40-140	0.595	20	
Carbazole	38.3	10	µg/L	50.0		76.7	40-140	1.96	20	
4-Chloroaniline	35.0	10	µg/L	50.0		70.0	40-140	6.36	20	V-34
4-Chloro-3-methylphenol	39.4	10	µg/L	50.0		78.8	30-130	0.304	20	
2-Chloronaphthalene	32.8	10	µg/L	50.0		65.6	40-140	0.760	20	
2-Chlorophenol	33.1	10	µg/L	50.0		66.1	30-130	0.783	20	
4-Chlorophenylphenylether	35.3	10	µg/L	50.0		70.6	40-140	3.43	20	
Chrysene	38.0	5.0	µg/L	50.0		76.1	40-140	0.686	20	
Dibenz(a,h)anthracene	39.9	5.0	µg/L	50.0		79.7	40-140	1.20	20	
Dibenzofuran	37.6	5.0	µg/L	50.0		75.1	40-140	2.24	20	
Di-n-butylphthalate	37.8	10	µg/L	50.0		75.5	40-140	1.65	20	
1,2-Dichlorobenzene	27.8	5.0	µg/L	50.0		55.6	40-140	1.43	20	
1,3-Dichlorobenzene	26.0	5.0	µg/L	50.0		51.9	40-140	2.51	20	
1,4-Dichlorobenzene	26.9	5.0	µg/L	50.0		53.8	40-140	0.260	20	
3,3-Dichlorobenzidine	40.8	10	µg/L	50.0		81.7	40-140	1.36	20	
2,4-Dichlorophenol	35.1	10	µg/L	50.0		70.2	30-130	0.0570	20	
Diethylphthalate	37.7	10	µg/L	50.0		75.5	40-140	2.54	20	
2,4-Dimethylphenol	33.9	10	µg/L	50.0		67.7	30-130	1.13	20	
Dimethylphthalate	37.3	10	µg/L	50.0		74.6	40-140	3.30	50	‡
4,6-Dinitro-2-methylphenol	35.0	10	µg/L	50.0		70.0	30-130	3.04	50	‡
2,4-Dinitrophenol	34.2	10	µg/L	50.0		68.5	30-130	0.117	50	‡
2,4-Dinitrotoluene	40.3	10	µg/L	50.0		80.6	40-140	2.21	20	
2,6-Dinitrotoluene	41.3	10	µg/L	50.0		82.6	40-140	1.49	20	
Di-n-octylphthalate	37.1	10	µg/L	50.0		74.2	40-140	5.94	20	
1,2-Diphenylhydrazine/Azobenzene	39.1	10	µg/L	50.0		78.2	40-140	4.16	20	
Fluoranthene	38.5	5.0	µg/L	50.0		76.9	40-140	0.182	20	
Fluorene	37.2	5.0	µg/L	50.0		74.4	40-140	3.46	20	

QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274109 - SW-846 3510C										
LCS Dup (B274109-BSD1)										
Prepared & Analyzed: 01/07/21										
Hexachlorobenzene	37.0	10	µg/L	50.0		74.1	40-140	0.913	20	
Hexachlorobutadiene	28.5	10	µg/L	50.0		56.9	40-140	1.66	20	
Hexachlorocyclopentadiene	19.4	10	µg/L	50.0		38.9	30-140	3.49	50	V-05 † ‡
Hexachloroethane	26.3	10	µg/L	50.0		52.6	40-140	1.42	50	‡
Indeno(1,2,3-cd)pyrene	39.2	5.0	µg/L	50.0		78.4	40-140	2.99	50	‡
Isophorone	41.0	10	µg/L	50.0		82.1	40-140	0.0487	20	
1-Methylnaphthalene	34.2	5.0	µg/L	50.0		68.3	40-140	1.80	20	
2-Methylnaphthalene	38.0	5.0	µg/L	50.0		76.0	40-140	0.131	20	
2-Methylphenol	33.0	10	µg/L	50.0		65.9	30-130	2.34	20	
3/4-Methylphenol	32.0	10	µg/L	50.0		64.1	30-130	3.83	20	
Naphthalene	33.7	5.0	µg/L	50.0		67.4	40-140	2.07	20	
2-Nitroaniline	41.1	10	µg/L	50.0		82.2	40-140	4.17	20	V-35
3-Nitroaniline	37.1	10	µg/L	50.0		74.2	40-140	6.75	20	
4-Nitroaniline	37.0	10	µg/L	50.0		74.1	40-140	3.84	20	
Nitrobenzene	35.2	10	µg/L	50.0		70.4	40-140	1.06	20	
2-Nitrophenol	34.9	10	µg/L	50.0		69.9	30-130	1.53	20	
4-Nitrophenol	22.9	10	µg/L	50.0		45.8	10-130	3.56	50	† ‡
N-Nitrosodimethylamine	22.8	10	µg/L	50.0		45.7	40-140	0.571	20	
N-Nitrosodiphenylamine/Diphenylamine	37.8	10	µg/L	50.0		75.6	40-140	2.40	20	
N-Nitrosodi-n-propylamine	39.1	10	µg/L	50.0		78.2	40-140	0.866	20	
Pentachloronitrobenzene	37.7	10	µg/L	50.0		75.4	40-140	4.97	20	
Pentachlorophenol	26.8	10	µg/L	50.0		53.5	30-130	1.13	50	V-05 ‡
Phenanthrene	39.0	5.0	µg/L	50.0		78.0	40-140	2.15	20	
Phenol	16.3	10	µg/L	50.0		32.6	20-130	3.56	20	†
Pyrene	40.8	5.0	µg/L	50.0		81.7	40-140	0.342	20	
Pyridine	16.1	5.0	µg/L	50.0		32.3	10-140	5.90	50	† ‡
1,2,4,5-Tetrachlorobenzene	31.4	10	µg/L	50.0		62.9	40-140	0.476	20	
1,2,4-Trichlorobenzene	29.4	5.0	µg/L	50.0		58.9	40-140	0.579	20	
2,4,5-Trichlorophenol	37.5	10	µg/L	50.0		75.0	30-130	0.884	20	
2,4,6-Trichlorophenol	35.9	10	µg/L	50.0		71.9	30-130	1.79	50	‡
Surrogate: 2-Fluorophenol	98.5		µg/L	200		49.2	15-110			
Surrogate: Phenol-d6	77.0		µg/L	200		38.5	15-110			
Surrogate: Nitrobenzene-d5	71.0		µg/L	100		71.0	30-130			
Surrogate: 2-Fluorobiphenyl	77.1		µg/L	100		77.1	30-130			
Surrogate: 2,4,6-Tribromophenol	120		µg/L	140		86.0	15-110			
Surrogate: p-Terphenyl-d14	92.2		µg/L	100		92.2	30-130			

QUALITY CONTROL
SPLP - Extraction Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274207 - SW-846 3510C
Blank (B274207-BLK1)

Prepared: 01/08/21 Analyzed: 01/11/21

C9-C18 Aliphatics	ND	100	µg/L							
C19-C36 Aliphatics	ND	100	µg/L							
Unadjusted C11-C22 Aromatics	ND	100	µg/L							
C11-C22 Aromatics	ND	100	µg/L							
Acenaphthene	ND	2.0	µg/L							
Acenaphthylene	ND	2.0	µg/L							
Anthracene	ND	2.0	µg/L							
Benzo(a)anthracene	ND	2.0	µg/L							
Benzo(a)pyrene	ND	2.0	µg/L							
Benzo(b)fluoranthene	ND	2.0	µg/L							
Benzo(g,h,i)perylene	ND	2.0	µg/L							
Benzo(k)fluoranthene	ND	2.0	µg/L							
Chrysene	ND	2.0	µg/L							
Dibenz(a,h)anthracene	ND	2.0	µg/L							
Fluoranthene	ND	2.0	µg/L							
Fluorene	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L							
2-Methylnaphthalene	ND	2.0	µg/L							
Naphthalene	ND	2.0	µg/L							
Phenanthrene	ND	2.0	µg/L							
Pyrene	ND	2.0	µg/L							
Naphthalene-aliphatic fraction	ND	2.0	µg/L							
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L							
Surrogate: Chlorooctadecane (COD)	73.6		µg/L	100		73.6	40-140			
Surrogate: o-Terphenyl (OTP)	92.2		µg/L	100		92.2	40-140			
Surrogate: 2-Bromonaphthalene	103		µg/L	100		103	40-140			
Surrogate: 2-Fluorobiphenyl	106		µg/L	100		106	40-140			

LCS (B274207-BS1)

Prepared: 01/08/21 Analyzed: 01/11/21

C9-C18 Aliphatics	410	100	µg/L	600		68.3	0-200			
C19-C36 Aliphatics	743	100	µg/L	800		92.8	0-200			
Unadjusted C11-C22 Aromatics	1630	100	µg/L	1700		95.8	0-200			
Acenaphthene	87.3	2.0	µg/L	100		87.3	40-140			
Acenaphthylene	82.0	2.0	µg/L	100		82.0	40-140			
Anthracene	94.8	2.0	µg/L	100		94.8	40-140			
Benzo(a)anthracene	101	2.0	µg/L	100		101	40-140			
Benzo(a)pyrene	96.4	2.0	µg/L	100		96.4	40-140			
Benzo(b)fluoranthene	95.7	2.0	µg/L	100		95.7	40-140			
Benzo(g,h,i)perylene	88.4	2.0	µg/L	100		88.4	40-140			
Benzo(k)fluoranthene	93.4	2.0	µg/L	100		93.4	40-140			
Chrysene	96.8	2.0	µg/L	100		96.8	40-140			
Dibenz(a,h)anthracene	94.5	2.0	µg/L	100		94.5	40-140			
Fluoranthene	96.5	2.0	µg/L	100		96.5	40-140			
Fluorene	92.5	2.0	µg/L	100		92.5	40-140			
Indeno(1,2,3-cd)pyrene	89.8	2.0	µg/L	100		89.8	40-140			
2-Methylnaphthalene	75.2	2.0	µg/L	100		75.2	40-140			
Naphthalene	65.6	2.0	µg/L	100		65.6	40-140			
Phenanthrene	97.4	2.0	µg/L	100		97.4	40-140			
Pyrene	97.7	2.0	µg/L	100		97.7	40-140			
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	72.5		µg/L	100		72.5	40-140			

QUALITY CONTROL

SPLP - Extraction Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274207 - SW-846 3510C										
LCS (B274207-BS1)										
					Prepared: 01/08/21 Analyzed: 01/11/21					
Surrogate: o-Terphenyl (OTP)	95.4		µg/L	100		95.4	40-140			
Surrogate: 2-Bromonaphthalene	107		µg/L	100		107	40-140			
Surrogate: 2-Fluorobiphenyl	107		µg/L	100		107	40-140			
LCS Dup (B274207-BSD1)										
					Prepared: 01/08/21 Analyzed: 01/11/21					
C9-C18 Aliphatics	424	100	µg/L	600		70.7	0-200	3.49		
C19-C36 Aliphatics	697	100	µg/L	800		87.1	0-200	6.40		
Unadjusted C11-C22 Aromatics	1540	100	µg/L	1700		90.5	0-200	5.75		
Acenaphthene	83.3	2.0	µg/L	100		83.3	40-140	4.68	25	
Acenaphthylene	78.8	2.0	µg/L	100		78.8	40-140	3.94	25	
Anthracene	88.3	2.0	µg/L	100		88.3	40-140	7.10	25	
Benzo(a)anthracene	94.7	2.0	µg/L	100		94.7	40-140	6.08	25	
Benzo(a)pyrene	89.9	2.0	µg/L	100		89.9	40-140	7.00	25	
Benzo(b)fluoranthene	90.3	2.0	µg/L	100		90.3	40-140	5.82	25	
Benzo(g,h,i)perylene	82.6	2.0	µg/L	100		82.6	40-140	6.73	25	
Benzo(k)fluoranthene	87.9	2.0	µg/L	100		87.9	40-140	6.01	25	
Chrysene	91.2	2.0	µg/L	100		91.2	40-140	5.93	25	
Dibenz(a,h)anthracene	88.7	2.0	µg/L	100		88.7	40-140	6.28	25	
Fluoranthene	90.6	2.0	µg/L	100		90.6	40-140	6.25	25	
Fluorene	87.1	2.0	µg/L	100		87.1	40-140	6.00	25	
Indeno(1,2,3-cd)pyrene	84.4	2.0	µg/L	100		84.4	40-140	6.24	25	
2-Methylnaphthalene	74.6	2.0	µg/L	100		74.6	40-140	0.818	25	
Naphthalene	67.4	2.0	µg/L	100		67.4	40-140	2.70	25	
Phenanthrene	91.1	2.0	µg/L	100		91.1	40-140	6.67	25	
Pyrene	91.6	2.0	µg/L	100		91.6	40-140	6.43	25	
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	69.2		µg/L	100		69.2	40-140			
Surrogate: o-Terphenyl (OTP)	86.6		µg/L	100		86.6	40-140			
Surrogate: 2-Bromonaphthalene	96.2		µg/L	100		96.2	40-140			
Surrogate: 2-Fluorobiphenyl	99.3		µg/L	100		99.3	40-140			
Matrix Spike (B274207-MS1)										
			Source: 21A0044-02		Prepared: 01/08/21 Analyzed: 01/12/21					
C9-C18 Aliphatics	458	100	µg/L	600	ND	76.4	40-140			
C19-C36 Aliphatics	739	100	µg/L	800	ND	92.3	40-140			
Unadjusted C11-C22 Aromatics	1970	100	µg/L	1700	479	87.8	40-140			
Acenaphthene	90.4	2.0	µg/L	100	3.34	87.1	40-140			
Acenaphthylene	83.3	2.0	µg/L	100	ND	83.3	40-140			
Anthracene	89.1	2.0	µg/L	100	ND	89.1	40-140			
Benzo(a)anthracene	93.2	2.0	µg/L	100	ND	93.2	40-140			
Benzo(a)pyrene	88.5	2.0	µg/L	100	ND	88.5	40-140			
Benzo(b)fluoranthene	87.7	2.0	µg/L	100	ND	87.7	40-140			
Benzo(g,h,i)perylene	78.8	2.0	µg/L	100	ND	78.8	40-140			
Benzo(k)fluoranthene	85.7	2.0	µg/L	100	ND	85.7	40-140			
Chrysene	89.3	2.0	µg/L	100	ND	89.3	40-140			
Dibenz(a,h)anthracene	86.2	2.0	µg/L	100	ND	86.2	40-140			
Fluoranthene	91.2	2.0	µg/L	100	ND	91.2	40-140			
Fluorene	90.0	2.0	µg/L	100	3.06	87.0	40-140			
Indeno(1,2,3-cd)pyrene	81.7	2.0	µg/L	100	ND	81.7	40-140			
2-Methylnaphthalene	89.0	2.0	µg/L	100	15.1	73.9	40-140			
Naphthalene	81.9	2.0	µg/L	100	13.4	68.6	40-140			
Phenanthrene	92.0	2.0	µg/L	100	1.33	90.7	40-140			

QUALITY CONTROL

SPLP - Extraction Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274207 - SW-846 3510C

Matrix Spike (B274207-MS1)

Source: 21A0044-02

Prepared: 01/08/21 Analyzed: 01/12/21

Pyrene	91.1	2.0	µg/L	100	ND	91.1	40-140			
Surrogate: Chlorooctadecane (COD)	49.6		µg/L	100		49.6	40-140			
Surrogate: o-Terphenyl (OTP)	86.8		µg/L	100		86.8	40-140			
Surrogate: 2-Bromonaphthalene	106		µg/L	100		106	40-140			
Surrogate: 2-Fluorobiphenyl	107		µg/L	100		107	40-140			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-01	Methylene chloride is a common laboratory contaminant.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-15	Surrogate recovery outside of control limits due to suspected sample matrix interference. Chromatogram(s) is attached.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP EPH rev 2.1 in Soil	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
MADEP EPH rev 2.1 in Water	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME,VA
Acetone	CT,NH,NY,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
Acrylonitrile	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dibromoethane (EDB)	NH,NY
Dibromomethane	NH,NY,ME,VA
Dibromomethane	NH,NY,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Diethyl Ether	ME
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl Cyclohexane	NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
Methylene Chloride	CT,NH,NY,ME,VA
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
Styrene	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Acetate	NH,NY
Vinyl Acetate	NY,ME
Vinyl Chloride	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
<i>SW-846 8270D-E in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Soil</i>	
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Soil	
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NY,NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/ Azobenzene	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

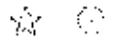
Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2021
ME	State of Maine	MA00100	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



1/25/21 9:46



Delivered
Tuesday 1/05/2021 at 9:45 am



DELIVERED

Signed for by: K. KLIVIN

[GET STATUS UPDATES](#)
[OBTAIN PROOF OF DELIVERY](#)

FROM
FEDERAL EXPRESS

TO
K. KLIVIN, 601 WALK

Shipment Facts

TRACKING NUMBER
1234567890

SERVICE
FedEx Priority Overnight

WEIGHT
9.0 lbs 11.0 oz

DIMENSIONS
20x15x10

DELIVERED TO
K. KLIVIN, 601 WALK

TOTAL PIECES
1

TOTAL SHIPMENT WEIGHT
9.0 lbs 11.0 oz

TERMS
Account

PURCHASE ORDER NUMBER
1234567890

SHIPPER REFERENCE
1234567890

PACKAGING
Fibreboard box

SPECIAL HANDLING SECTION
No Signature Required

STANDARD TRANSIT
 1-2 Business Days

SHIP DATE
 Tuesday 1/05/21

ACTUAL DELIVERY
Tue 05/2021 9:45 am

Travel History

Local Scan Time

Tuesday 1/05/2021

9:45 am	EAST LONGMEADOW, MA	Delivered
8:34 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:59 am	WINDSOR LOCKS, CT	At local FedEx facility
7:02 am	EAST GRANBY, CT	At distribution sort facility

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Stone

Received By LR Date 1-5-21 Time 945

How were the samples received?
 In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 25
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in Ink/Legible? T Were samples received within holding time? T

Did COC include all pertinent information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____
 Who was notified? _____
 Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? T

Acid _____ Base _____

Vials	Containers				
Unp-	1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	500 mL Amb.		500 mL Plastic		8oz Amb/Clear 6
Meoh- 2	250 mL Amb.		250 mL Plastic		4oz Amb/Clear 1
Bisulfate- 4	Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-	Other Glass		Other Plastic		Encore 1
Thiosulfate-	SOC Kit		Plastic Bag		Frozen:
Sulfuric-	Perchlorate		Ziplock		

Unused Media

Vials	Containers				
Unp-	1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-	Other Plastic		Other Glass		Encore
Thiosulfate-	SOC Kit		Plastic Bag		Frozen:
Sulfuric-	Perchlorate		Ziplock		

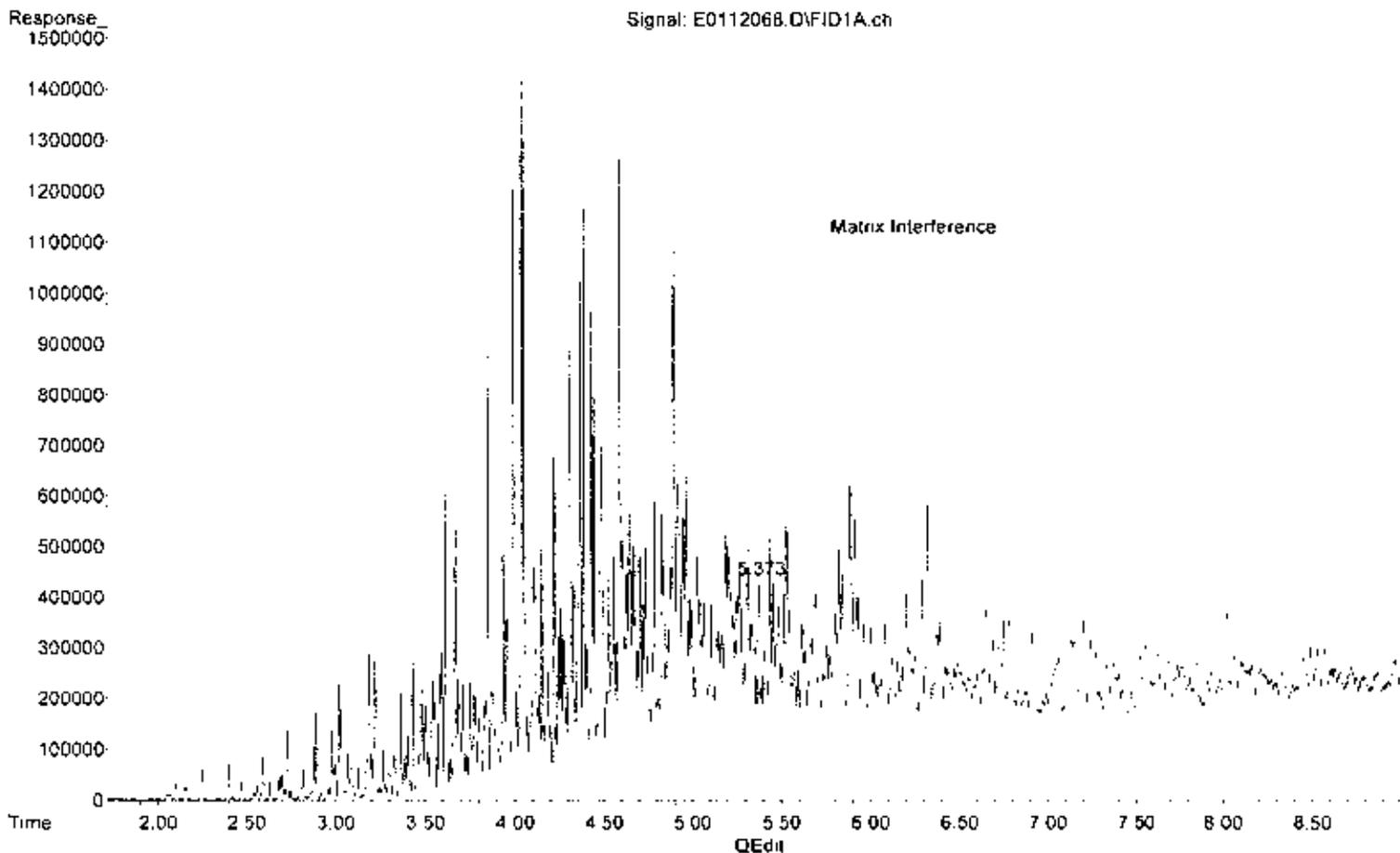
Comments:

Trip Blank not received

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E011221\
Data File : E0112068.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 Jan 2021 1:35 am
Operator : RDD
Sample : 21A0044-0305X Inst : GCFID5
Misc :
ALS Vial : 56 (Sig #1); 50 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jan 13 10:51:41 2021
Quant Method : C:\msdchem\1\methods\EPH120920.M
Quant Title : EPH GCFID5 12/09/2020
Qfast Update : Wed Dec 09 15:39:22 2020
Response via : Initial Calibration
Integrator: ChemStation
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) o-Terphenyl (OTP) (S)
5.373min 25394 ug/mL m
response 2287554

January 19, 2021

Lee Rosberg
Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602

Project Location: Brattleboro, VT
Client Job Number:
Project Number: 19-015
Laboratory Work Order Number: 21A0347

Enclosed are results of analyses for samples received by the laboratory on January 11, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	7
21A0347-01	7
21A0347-02	12
21A0347-03	17
21A0347-04	19
21A0347-05	24
21A0347-06	28
Sample Preparation Information	32
QC Data	33
Volatile Organic Compounds by GC/MS	33
B274340	33
Semivolatile Organic Compounds by GC/MS	38
B274469	38
Petroleum Hydrocarbons Analyses - EPH	46
B274464	46
Flag/Qualifier Summary	48
Certifications	49
Chain of Custody/Sample Receipt	54

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Stone Environmental
 535 Stone Cutters Ways
 Montpelier, VT 05602
 ATTN: Lee Rosberg

REPORT DATE: 1/19/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 19-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21A0347

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brattleboro, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IP-01s	21A0347-01	Ground Water		MADEP EPH rev 2.1 SW-846 8260C-D SW-846 8270D-E	
IP-28	21A0347-02	Ground Water		MADEP EPH rev 2.1 SW-846 8260C-D SW-846 8270D-E	
TB-010721	21A0347-03	Trip Blank Water		SW-846 8260C-D	
IP-03s	21A0347-04	Ground Water		MADEP EPH rev 2.1 SW-846 8260C-D SW-846 8270D-E	
Deep Well	21A0347-05	Ground Water		SW-846 8260C-D SW-846 8270D-E	
Shallow Well	21A0347-06	Ground Water		SW-846 8260C-D SW-846 8270D-E	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 1/19/2021 - Report 8260 data to the MDL per clients request.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8260C-D

Qualifications:**V-05**

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-03[TB-010721], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274340-BLK1, B274340-BS1, B274340-BSD1, S056134-CCV1

Chloromethane

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-03[TB-010721], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274340-BLK1, B274340-BS1, B274340-BSD1, S056134-CCV1

Naphthalene

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-03[TB-010721], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274340-BLK1, B274340-BS1, B274340-BSD1, S056134-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

B274340-BS1, B274340-BSD1, S056134-CCV1

Methyl Acetate

B274340-BS1, B274340-BSD1, S056134-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-03[TB-010721], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274340-BLK1, B274340-BS1, B274340-BSD1, S056134-CCV1

Chloromethane

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-03[TB-010721], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274340-BLK1, B274340-BS1, B274340-BSD1, S056134-CCV1

SW-846 8270D-E

Qualifications:**R-05**

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Benzidine**

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274469-BLK1, B274469-BS1, B274469-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Benzidine**

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274469-BLK1, B274469-BS1, B274469-BSD1, S056207-CCV1, S056265-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Benzidine**

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274469-BLK1, B274469-BS1, B274469-BSD1, S056207-CCV1, S056265-CCV1

Hexachlorocyclopentadiene

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274469-BLK1, B274469-BS1, B274469-BSD1, S056207-CCV1, S056265-CCV1

Pentachlorophenol

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274469-BLK1, B274469-BS1, B274469-BSD1, S056207-CCV1, S056265-CCV1



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

3/4-Methylphenol

21A0347-05[Deep Well], 21A0347-06[Shallow Well], S056265-CCV1

Acetophenone

21A0347-05[Deep Well], 21A0347-06[Shallow Well], S056265-CCV1

Benzoic Acid

21A0347-05[Deep Well], 21A0347-06[Shallow Well], S056265-CCV1

Nitrobenzene

21A0347-05[Deep Well], 21A0347-06[Shallow Well], S056265-CCV1

N-Nitrosodimethylamine

21A0347-05[Deep Well], 21A0347-06[Shallow Well], S056265-CCV1

N-Nitrosodi-n-propylamine

21A0347-05[Deep Well], 21A0347-06[Shallow Well], S056265-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-04[IP-03s], 21A0347-05[Deep Well], 21A0347-06[Shallow Well], B274469-BLK1, B274469-BS1, B274469-BSD1, S054109-ICV1, S054918-ICV1, S056207-CCV1, S056265-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

2-Nitroaniline

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-04[IP-03s], B274469-BLK1, B274469-BS1, B274469-BSD1, S054109-ICV1, S056207-CCV1

Benzidine

21A0347-05[Deep Well], 21A0347-06[Shallow Well], S054918-ICV1, S056265-CCV1

Bis(2-chloroisopropyl)ether

21A0347-01[IP-01s], 21A0347-02[IP-28], 21A0347-04[IP-03s], B274469-BLK1, B274469-BS1, B274469-BSD1, S054109-ICV1, S056207-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-01s

Sampled: 1/6/2021 10:15

Sample ID: 21A0347-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	3.8	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Acrylonitrile	ND	5.0	0.52	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Bromoform	ND	1.0	0.46	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Bromomethane	ND	5.0	1.4	µg/L	1	V-34	SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
2-Butanone (MEK)	ND	20	1.9	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
tert-Butyl Alcohol (TBA)	ND	20	4.2	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
n-Butylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Carbon Disulfide	ND	5.0	4.4	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Carbon Tetrachloride	ND	5.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Chlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Chlorodibromomethane	ND	0.50	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Chloroethane	ND	2.0	0.36	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Chloromethane	ND	2.0	0.45	µg/L	1	V-05, V-34	SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.53	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.19	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Dibromomethane	ND	1.0	0.37	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2-Dichlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.26	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2-Dichloroethane	ND	1.0	0.41	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,1-Dichloroethylene	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,3-Dichloropropane	ND	0.50	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
2,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,1-Dichloropropene	ND	2.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
trans-1,3-Dichloropropene	ND	0.50	0.23	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Diethyl Ether	ND	2.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-01s

Sampled: 1/6/2021 10:15

Sample ID: 21A0347-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,4-Dioxane	ND	50	22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Methyl Cyclohexane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Methylene Chloride	ND	5.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Naphthalene	ND	2.0	0.31	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Tetrachloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Tetrahydrofuran	ND	10	0.51	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Toluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.57	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.40	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,1,1-Trichloroethane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,1,2-Trichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Trichloroethylene	ND	1.0	0.24	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.33	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2,3-Trichloropropane	ND	2.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2,3-Trimethylbenzene	ND	0.50	0.49	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
Vinyl Chloride	ND	2.0	0.45	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
m+p Xylene	ND	2.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD
o-Xylene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:00	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.0	70-130	1/12/21 12:00
Toluene-d8	99.9	70-130	1/12/21 12:00
4-Bromofluorobenzene	101	70-130	1/12/21 12:00

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-01s

Sampled: 1/6/2021 10:15

Sample ID: 21A0347-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Acenaphthylene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Acetophenone	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Aniline	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Anthracene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Benzidine	ND	20	µg/L	1	R-05, V-04, V-05	SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Benzo(a)anthracene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Benzo(a)pyrene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Benzo(b)fluoranthene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Benzo(g,h,i)perylene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Benzo(k)fluoranthene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Benzoic Acid	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Bis(2-chloroethoxy)methane	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Bis(2-chloroethyl)ether	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Bis(2-chloroisopropyl)ether	ND	9.8	µg/L	1	V-35	SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Bis(2-Ethylhexyl)phthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
4-Bromophenylphenylether	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Butylbenzylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Carbazole	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
4-Chloroaniline	ND	9.8	µg/L	1	V-34	SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
4-Chloro-3-methylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2-Chloronaphthalene	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2-Chlorophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
4-Chlorophenylphenylether	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Chrysene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Dibenz(a,h)anthracene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Dibenzofuran	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Di-n-butylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
1,2-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
1,3-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
1,4-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
3,3-Dichlorobenzidine	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2,4-Dichlorophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Diethylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2,4-Dimethylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Dimethylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
4,6-Dinitro-2-methylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2,4-Dinitrophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2,4-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2,6-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Di-n-octylphthalate	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Fluoranthene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Fluorene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-01s

Sampled: 1/6/2021 10:15

Sample ID: 21A0347-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Hexachlorobutadiene	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Hexachlorocyclopentadiene	ND	9.8	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Hexachloroethane	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Indeno(1,2,3-cd)pyrene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Isophorone	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
1-Methylnaphthalene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2-Methylnaphthalene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2-Methylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
3/4-Methylphenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Naphthalene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2-Nitroaniline	ND	9.8	µg/L	1	V-35	SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
3-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
4-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Nitrobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
4-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
N-Nitrosodimethylamine	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
N-Nitrosodi-n-propylamine	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Pentachloronitrobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Pentachlorophenol	ND	9.8	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Phenanthrene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Phenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Pyrene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
Pyridine	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
1,2,4,5-Tetrachlorobenzene	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
1,2,4-Trichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2,4,5-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR
2,4,6-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:03	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	34.0	15-110	
Phenol-d6	28.8	15-110	
Nitrobenzene-d5	60.0	30-130	
2-Fluorobiphenyl	67.6	30-130	
2,4,6-Tribromophenol	69.2	15-110	
p-Terphenyl-d14	87.9	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-01s

Sampled: 1/6/2021 10:15

Sample ID: 21A0347-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	98	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
C19-C36 Aliphatics	ND	98	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Unadjusted C11-C22 Aromatics	ND	98	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
C11-C22 Aromatics	ND	98	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Acenaphthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Acenaphthylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Chrysene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Fluorene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Naphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Phenanthrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW
Pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:15	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Chlorooctadecane (COD)	73.5	40-140	
o-Terphenyl (OTP)	87.9	40-140	
2-Bromonaphthalene	105	40-140	
2-Fluorobiphenyl	105	40-140	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-28

Sampled: 1/6/2021 14:20

Sample ID: 21A0347-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	3.8	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Acrylonitrile	ND	5.0	0.52	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Bromoform	ND	1.0	0.46	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Bromomethane	ND	5.0	1.4	µg/L	1	V-34	SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
2-Butanone (MEK)	ND	20	1.9	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
tert-Butyl Alcohol (TBA)	ND	20	4.2	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
n-Butylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Carbon Disulfide	ND	5.0	4.4	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Carbon Tetrachloride	ND	5.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Chlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Chlorodibromomethane	ND	0.50	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Chloroethane	ND	2.0	0.36	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Chloroform	0.73	2.0	0.17	µg/L	1	J	SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Chloromethane	1.4	2.0	0.45	µg/L	1	V-05, V-34, J	SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.53	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.19	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Dibromomethane	ND	1.0	0.37	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2-Dichlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.26	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2-Dichloroethane	ND	1.0	0.41	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,1-Dichloroethylene	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,3-Dichloropropane	ND	0.50	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
2,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,1-Dichloropropene	ND	2.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
trans-1,3-Dichloropropene	ND	0.50	0.23	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Diethyl Ether	ND	2.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-28

Sampled: 1/6/2021 14:20

Sample ID: 21A0347-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,4-Dioxane	ND	50	22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Methyl Cyclohexane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Methylene Chloride	ND	5.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Naphthalene	ND	2.0	0.31	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Tetrachloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Tetrahydrofuran	ND	10	0.51	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Toluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.57	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.40	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,1,1-Trichloroethane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,1,2-Trichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Trichloroethylene	ND	1.0	0.24	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.33	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2,3-Trichloropropane	ND	2.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2,3-Trimethylbenzene	ND	0.50	0.49	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
Vinyl Chloride	ND	2.0	0.45	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
m+p Xylene	ND	2.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD
o-Xylene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:26	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.0	70-130	1/12/21 12:26
Toluene-d8	99.9	70-130	1/12/21 12:26
4-Bromofluorobenzene	102	70-130	1/12/21 12:26

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-28

Sampled: 1/6/2021 14:20

Sample ID: 21A0347-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Acetophenone	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Aniline	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Benzidine	ND	20	µg/L	1	R-05, V-04, V-05	SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Benzoic Acid	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	V-35	SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Chrysene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Fluorene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-28

Sampled: 1/6/2021 14:20

Sample ID: 21A0347-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
1-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2-Nitroaniline	ND	10	µg/L	1	V-35	SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
N-Nitrosodimethylamine	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Pentachloronitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Pentachlorophenol	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:30	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	38.4	15-110	
Phenol-d6	33.1	15-110	
Nitrobenzene-d5	66.7	30-130	
2-Fluorobiphenyl	76.6	30-130	
2,4,6-Tribromophenol	74.5	15-110	
p-Terphenyl-d14	92.3	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-28

Sampled: 1/6/2021 14:20

Sample ID: 21A0347-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	98	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
C19-C36 Aliphatics	ND	98	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Unadjusted C11-C22 Aromatics	ND	98	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
C11-C22 Aromatics	ND	98	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Acenaphthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Acenaphthylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Chrysene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Fluorene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Naphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Phenanthrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW
Pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:34	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Chlorooctadecane (COD)	72.2	40-140	
o-Terphenyl (OTP)	86.8	40-140	
2-Bromonaphthalene	102	40-140	
2-Fluorobiphenyl	101	40-140	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: TB-010721

Sampled: 1/6/2021 15:30

Sample ID: 21A0347-03

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	3.8	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Acrylonitrile	ND	5.0	0.52	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Bromoform	ND	1.0	0.46	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Bromomethane	ND	5.0	1.4	µg/L	1	V-34	SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
2-Butanone (MEK)	ND	20	1.9	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
tert-Butyl Alcohol (TBA)	ND	20	4.2	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
n-Butylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Carbon Disulfide	ND	5.0	4.4	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Carbon Tetrachloride	ND	5.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Chlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Chlorodibromomethane	ND	0.50	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Chloroethane	ND	2.0	0.36	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Chloromethane	ND	2.0	0.45	µg/L	1	V-05, V-34	SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.53	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.19	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Dibromomethane	ND	1.0	0.37	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2-Dichlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.26	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2-Dichloroethane	ND	1.0	0.41	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,1-Dichloroethylene	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,3-Dichloropropane	ND	0.50	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
2,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,1-Dichloropropene	ND	2.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
trans-1,3-Dichloropropene	ND	0.50	0.23	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Diethyl Ether	ND	2.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: TB-010721

Sampled: 1/6/2021 15:30

Sample ID: 21A0347-03

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,4-Dioxane	ND	50	22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Methyl Cyclohexane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Methylene Chloride	ND	5.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Naphthalene	ND	2.0	0.31	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Tetrachloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Tetrahydrofuran	ND	10	0.51	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Toluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.57	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.40	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,1,1-Trichloroethane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,1,2-Trichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Trichloroethylene	ND	1.0	0.24	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.33	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2,3-Trichloropropane	ND	2.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2,3-Trimethylbenzene	ND	0.50	0.49	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
Vinyl Chloride	ND	2.0	0.45	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
m+p Xylene	ND	2.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD
o-Xylene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 11:08	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.4	70-130	1/12/21 11:08
Toluene-d8	101	70-130	1/12/21 11:08
4-Bromofluorobenzene	100	70-130	1/12/21 11:08

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-03s

Sampled: 1/6/2021 16:00

Sample ID: 21A0347-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	3.8	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Acrylonitrile	ND	5.0	0.52	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Bromoform	ND	1.0	0.46	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Bromomethane	ND	5.0	1.4	µg/L	1	V-34	SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
2-Butanone (MEK)	ND	20	1.9	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
tert-Butyl Alcohol (TBA)	ND	20	4.2	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
n-Butylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Carbon Disulfide	ND	5.0	4.4	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Carbon Tetrachloride	ND	5.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Chlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Chlorodibromomethane	ND	0.50	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Chloroethane	ND	2.0	0.36	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Chloromethane	ND	2.0	0.45	µg/L	1	V-05, V-34	SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.53	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.19	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Dibromomethane	ND	1.0	0.37	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2-Dichlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.26	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2-Dichloroethane	ND	1.0	0.41	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,1-Dichloroethylene	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,3-Dichloropropane	ND	0.50	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
2,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,1-Dichloropropene	ND	2.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
trans-1,3-Dichloropropene	ND	0.50	0.23	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Diethyl Ether	ND	2.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-03s

Sampled: 1/6/2021 16:00

Sample ID: 21A0347-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,4-Dioxane	ND	50	22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Methyl Cyclohexane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Methylene Chloride	ND	5.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Naphthalene	ND	2.0	0.31	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Tetrachloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Tetrahydrofuran	ND	10	0.51	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Toluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.57	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.40	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,1,1-Trichloroethane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,1,2-Trichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Trichloroethylene	ND	1.0	0.24	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.33	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2,3-Trichloropropane	ND	2.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2,3-Trimethylbenzene	ND	0.50	0.49	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
Vinyl Chloride	ND	2.0	0.45	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
m+p Xylene	ND	2.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD
o-Xylene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 12:52	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.6	70-130	1/12/21 12:52
Toluene-d8	99.6	70-130	1/12/21 12:52
4-Bromofluorobenzene	101	70-130	1/12/21 12:52

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-03s

Sampled: 1/6/2021 16:00

Sample ID: 21A0347-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Acenaphthylene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Acetophenone	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Aniline	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Anthracene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Benzidine	ND	21	µg/L	1	R-05, V-04, V-05	SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Benzo(a)anthracene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Benzo(a)pyrene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Benzo(b)fluoranthene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Benzo(g,h,i)perylene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Benzo(k)fluoranthene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Benzoic Acid	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Bis(2-chloroethoxy)methane	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Bis(2-chloroethyl)ether	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Bis(2-chloroisopropyl)ether	ND	11	µg/L	1	V-35	SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Bis(2-Ethylhexyl)phthalate	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
4-Bromophenylphenylether	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Butylbenzylphthalate	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Carbazole	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
4-Chloroaniline	ND	11	µg/L	1	V-34	SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
4-Chloro-3-methylphenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2-Chloronaphthalene	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2-Chlorophenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
4-Chlorophenylphenylether	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Chrysene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Dibenz(a,h)anthracene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Dibenzofuran	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Di-n-butylphthalate	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
1,2-Dichlorobenzene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
1,3-Dichlorobenzene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
1,4-Dichlorobenzene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
3,3-Dichlorobenzidine	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2,4-Dichlorophenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Diethylphthalate	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2,4-Dimethylphenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Dimethylphthalate	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
4,6-Dinitro-2-methylphenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2,4-Dinitrophenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2,4-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2,6-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Di-n-octylphthalate	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Fluoranthene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Fluorene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-03s

Sampled: 1/6/2021 16:00

Sample ID: 21A0347-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Hexachlorobutadiene	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Hexachlorocyclopentadiene	ND	11	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Hexachloroethane	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Indeno(1,2,3-cd)pyrene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Isophorone	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
1-Methylnaphthalene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2-Methylnaphthalene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2-Methylphenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
3/4-Methylphenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Naphthalene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2-Nitroaniline	ND	11	µg/L	1	V-35	SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
3-Nitroaniline	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
4-Nitroaniline	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Nitrobenzene	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2-Nitrophenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
4-Nitrophenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
N-Nitrosodimethylamine	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
N-Nitrosodi-n-propylamine	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Pentachloronitrobenzene	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Pentachlorophenol	ND	11	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Phenanthrene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Phenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Pyrene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
Pyridine	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
1,2,4,5-Tetrachlorobenzene	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
1,2,4-Trichlorobenzene	ND	5.3	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2,4,5-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR
2,4,6-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D-E	1/13/21	1/14/21 20:55	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	49.8	15-110	
Phenol-d6	41.8	15-110	
Nitrobenzene-d5	81.1	30-130	
2-Fluorobiphenyl	84.9	30-130	
2,4,6-Tribromophenol	86.0	15-110	
p-Terphenyl-d14	104	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: IP-03s

Sampled: 1/6/2021 16:00

Sample ID: 21A0347-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
C19-C36 Aliphatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Unadjusted C11-C22 Aromatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
C11-C22 Aromatics	ND	100	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Acenaphthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Acenaphthylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Chrysene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Fluoranthene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Fluorene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Naphthalene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Phenanthrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW
Pyrene	ND	2.0	µg/L	1		MADEP EPH rev 2.1	1/13/21	1/15/21 14:53	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Chlorooctadecane (COD)	67.6	40-140	1/15/21 14:53
o-Terphenyl (OTP)	84.3	40-140	1/15/21 14:53
2-Bromonaphthalene	103	40-140	1/15/21 14:53
2-Fluorobiphenyl	102	40-140	1/15/21 14:53

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: Deep Well

Sampled: 1/6/2021 14:00

Sample ID: 21A0347-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	3.8	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Acrylonitrile	ND	5.0	0.52	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Bromoform	ND	1.0	0.46	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Bromomethane	ND	5.0	1.4	µg/L	1	V-34	SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
2-Butanone (MEK)	ND	20	1.9	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
tert-Butyl Alcohol (TBA)	ND	20	4.2	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
n-Butylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Carbon Disulfide	ND	5.0	4.4	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Carbon Tetrachloride	ND	5.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Chlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Chlorodibromomethane	ND	0.50	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Chloroethane	ND	2.0	0.36	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Chloromethane	ND	2.0	0.45	µg/L	1	V-05, V-34	SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.53	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.19	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Dibromomethane	ND	1.0	0.37	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2-Dichlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.26	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2-Dichloroethane	ND	1.0	0.41	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,1-Dichloroethylene	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,3-Dichloropropane	ND	0.50	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
2,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,1-Dichloropropene	ND	2.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
trans-1,3-Dichloropropene	ND	0.50	0.23	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Diethyl Ether	ND	2.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: Deep Well

Sampled: 1/6/2021 14:00

Sample ID: 21A0347-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,4-Dioxane	ND	50	22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Methyl tert-Butyl Ether (MTBE)	1.7	1.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Methyl Cyclohexane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Methylene Chloride	ND	5.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Naphthalene	ND	2.0	0.31	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Tetrachloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Tetrahydrofuran	ND	10	0.51	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Toluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.57	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.40	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,1,1-Trichloroethane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,1,2-Trichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Trichloroethylene	ND	1.0	0.24	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.33	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2,3-Trichloropropane	ND	2.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2,3-Trimethylbenzene	ND	0.50	0.49	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Vinyl Chloride	ND	2.0	0.45	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
m+p Xylene	ND	2.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
o-Xylene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:18	LBD
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		97.0	70-130						1/12/21 13:18	
Toluene-d8		99.5	70-130						1/12/21 13:18	
4-Bromofluorobenzene		100	70-130						1/12/21 13:18	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: Deep Well

Sampled: 1/6/2021 14:00

Sample ID: 21A0347-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Acetophenone	ND	9.9	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Aniline	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Benzidine	ND	20	µg/L	1	R-05, V-04, V-05, V-35	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Benzoic Acid	ND	9.9	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Bis(2-chloroethoxy)methane	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Bis(2-chloroethyl)ether	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Bis(2-chloroisopropyl)ether	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Bis(2-Ethylhexyl)phthalate	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
4-Bromophenylphenylether	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Butylbenzylphthalate	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Carbazole	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
4-Chloroaniline	ND	9.9	µg/L	1	V-34	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
4-Chloro-3-methylphenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2-Chloronaphthalene	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2-Chlorophenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
4-Chlorophenylphenylether	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Chrysene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Di-n-butylphthalate	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
3,3-Dichlorobenzidine	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2,4-Dichlorophenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Diethylphthalate	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2,4-Dimethylphenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Dimethylphthalate	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
4,6-Dinitro-2-methylphenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2,4-Dinitrophenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2,4-Dinitrotoluene	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2,6-Dinitrotoluene	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Di-n-octylphthalate	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: Deep Well

Sampled: 1/6/2021 14:00

Sample ID: 21A0347-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Hexachlorobenzene	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Hexachlorobutadiene	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Hexachlorocyclopentadiene	ND	9.9	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Hexachloroethane	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Isophorone	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
1-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2-Methylphenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
3/4-Methylphenol	ND	9.9	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2-Nitroaniline	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
3-Nitroaniline	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
4-Nitroaniline	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Nitrobenzene	ND	9.9	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2-Nitrophenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
4-Nitrophenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
N-Nitrosodimethylamine	ND	9.9	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
N-Nitrosodi-n-propylamine	ND	9.9	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Pentachloronitrobenzene	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Pentachlorophenol	ND	9.9	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Phenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
1,2,4,5-Tetrachlorobenzene	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2,4,5-Trichlorophenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR
2,4,6-Trichlorophenol	ND	9.9	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:11	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	56.6	15-110	
Phenol-d6	43.7	15-110	
Nitrobenzene-d5	85.9	30-130	
2-Fluorobiphenyl	92.7	30-130	
2,4,6-Tribromophenol	97.7	15-110	
p-Terphenyl-d14	104	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: Shallow Well

Sampled: 1/6/2021 14:10

Sample ID: 21A0347-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	3.8	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Acrylonitrile	ND	5.0	0.52	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
tert-Amyl Methyl Ether (TAME)	0.39	0.50	0.14	µg/L	1	J	SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Bromoform	ND	1.0	0.46	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Bromomethane	ND	5.0	1.4	µg/L	1	V-34	SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
2-Butanone (MEK)	ND	20	1.9	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
tert-Butyl Alcohol (TBA)	ND	20	4.2	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
n-Butylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Carbon Disulfide	ND	5.0	4.4	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Carbon Tetrachloride	ND	5.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Chlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Chlorodibromomethane	ND	0.50	0.21	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Chloroethane	ND	2.0	0.36	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Chloromethane	ND	2.0	0.45	µg/L	1	V-05, V-34	SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.53	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.19	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Dibromomethane	ND	1.0	0.37	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2-Dichlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.26	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2-Dichloroethane	ND	1.0	0.41	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,1-Dichloroethylene	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.31	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,3-Dichloropropane	ND	0.50	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
2,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,1-Dichloropropene	ND	2.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
trans-1,3-Dichloropropene	ND	0.50	0.23	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Diethyl Ether	ND	2.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: Shallow Well

Sampled: 1/6/2021 14:10

Sample ID: 21A0347-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,4-Dioxane	ND	50	22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Methyl tert-Butyl Ether (MTBE)	7.9	1.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Methyl Cyclohexane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Methylene Chloride	ND	5.0	0.34	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.7	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Naphthalene	ND	2.0	0.31	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Tetrachloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Tetrahydrofuran	ND	10	0.51	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Toluene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.57	µg/L	1	V-05	SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.40	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,1,1-Trichloroethane	ND	1.0	0.20	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,1,2-Trichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Trichloroethylene	ND	1.0	0.24	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.33	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2,3-Trichloropropane	ND	2.0	0.25	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.32	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2,3-Trimethylbenzene	ND	0.50	0.49	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
Vinyl Chloride	ND	2.0	0.45	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
m+p Xylene	ND	2.0	0.30	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD
o-Xylene	ND	1.0	0.17	µg/L	1		SW-846 8260C-D	1/12/21	1/12/21 13:44	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.8	70-130	1/12/21 13:44
Toluene-d8	98.3	70-130	1/12/21 13:44
4-Bromofluorobenzene	100	70-130	1/12/21 13:44

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: Shallow Well

Sampled: 1/6/2021 14:10

Sample ID: 21A0347-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Acenaphthylene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Acetophenone	ND	10	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Aniline	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Anthracene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Benzidine	ND	20	µg/L	1	R-05, V-04, V-05, V-35	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Benzo(a)anthracene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Benzo(a)pyrene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Benzo(b)fluoranthene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Benzo(g,h,i)perylene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Benzo(k)fluoranthene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Benzoic Acid	ND	10	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Chrysene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Dibenz(a,h)anthracene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Dibenzofuran	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
1,2-Dichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
1,3-Dichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
1,4-Dichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Fluoranthene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brattleboro, VT

Sample Description:

Work Order: 21A0347

Date Received: 1/11/2021

Field Sample #: Shallow Well

Sampled: 1/6/2021 14:10

Sample ID: 21A0347-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Indeno(1,2,3-cd)pyrene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
1-Methylnaphthalene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2-Methylnaphthalene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
3/4-Methylphenol	ND	10	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Naphthalene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Nitrobenzene	ND	10	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
N-Nitrosodimethylamine	ND	10	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	V-06	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Pentachloronitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Pentachlorophenol	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Phenanthrene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Pyrene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
Pyridine	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
1,2,4-Trichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/13/21	1/15/21 22:35	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	51.0	15-110	
Phenol-d6	41.2	15-110	
Nitrobenzene-d5	71.0	30-130	
2-Fluorobiphenyl	74.3	30-130	
2,4,6-Tribromophenol	84.5	15-110	
p-Terphenyl-d14	90.9	30-130	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method: SW-846 3510C Analytical Method: MADEP EPH rev 2.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0347-01 [IP-01s]	B274464	970	1.90	01/13/21
21A0347-02 [IP-28]	B274464	920	1.80	01/13/21
21A0347-04 [IP-03s]	B274464	900	1.80	01/13/21

Prep Method: SW-846 5030B Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0347-01 [IP-01s]	B274340	5	5.00	01/12/21
21A0347-02 [IP-28]	B274340	5	5.00	01/12/21
21A0347-03 [TB-010721]	B274340	5	5.00	01/12/21
21A0347-04 [IP-03s]	B274340	5	5.00	01/12/21
21A0347-05 [Deep Well]	B274340	5	5.00	01/12/21
21A0347-06 [Shallow Well]	B274340	5	5.00	01/12/21

Prep Method: SW-846 3510C Analytical Method: SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0347-01 [IP-01s]	B274469	1020	1.00	01/13/21
21A0347-02 [IP-28]	B274469	1000	1.00	01/13/21
21A0347-04 [IP-03s]	B274469	940	1.00	01/13/21
21A0347-05 [Deep Well]	B274469	1010	1.00	01/13/21
21A0347-06 [Shallow Well]	B274469	990	1.00	01/13/21

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274340 - SW-846 5030B										
Blank (B274340-BLK1)										
Prepared & Analyzed: 01/12/21										
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-34
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05, V-34
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274340 - SW-846 5030B										
Blank (B274340-BLK1)										
Prepared & Analyzed: 01/12/21										
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							V-05
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,3-Trimethylbenzene	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.0		µg/L	25.0		95.9	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.7	70-130			
LCS (B274340-BS1)										
Prepared & Analyzed: 01/12/21										
Acetone	91.5	50	µg/L	100		91.5	70-160			†
Acrylonitrile	10.2	5.0	µg/L	10.0		102	70-130			
tert-Amyl Methyl Ether (TAME)	9.18	0.50	µg/L	10.0		91.8	70-130			
Benzene	9.56	1.0	µg/L	10.0		95.6	70-130			
Bromobenzene	9.76	1.0	µg/L	10.0		97.6	70-130			
Bromochloromethane	11.0	1.0	µg/L	10.0		110	70-130			
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130			
Bromoform	9.59	1.0	µg/L	10.0		95.9	70-130			
Bromomethane	14.6	2.0	µg/L	10.0		146	40-160			V-20, V-34 †
2-Butanone (MEK)	90.1	20	µg/L	100		90.1	40-160			†
tert-Butyl Alcohol (TBA)	112	20	µg/L	100		112	40-160			†
n-Butylbenzene	8.98	1.0	µg/L	10.0		89.8	70-130			
sec-Butylbenzene	9.08	1.0	µg/L	10.0		90.8	70-130			
tert-Butylbenzene	9.88	1.0	µg/L	10.0		98.8	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101	70-130			
Carbon Disulfide	82.0	5.0	µg/L	100		82.0	70-130			
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130			
Chlorobenzene	9.70	1.0	µg/L	10.0		97.0	70-130			
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130			
Chloroethane	10.9	2.0	µg/L	10.0		109	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274340 - SW-846 5030B										
LCS (B274340-BS1)										
Prepared & Analyzed: 01/12/21										
Chloroform	10.0	2.0	µg/L	10.0		100	70-130			
Chloromethane	4.44	2.0	µg/L	10.0		44.4	40-160			V-05, V-34 †
2-Chlorotoluene	9.55	1.0	µg/L	10.0		95.5	70-130			
4-Chlorotoluene	9.65	1.0	µg/L	10.0		96.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.29	5.0	µg/L	10.0		92.9	70-130			
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107	70-130			
Dibromomethane	9.94	1.0	µg/L	10.0		99.4	70-130			
1,2-Dichlorobenzene	9.19	1.0	µg/L	10.0		91.9	70-130			
1,3-Dichlorobenzene	9.40	1.0	µg/L	10.0		94.0	70-130			
1,4-Dichlorobenzene	9.44	1.0	µg/L	10.0		94.4	70-130			
trans-1,4-Dichloro-2-butene	8.17	2.0	µg/L	10.0		81.7	70-130			
Dichlorodifluoromethane (Freon 12)	9.13	2.0	µg/L	10.0		91.3	40-160			†
1,1-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dichloroethane	11.1	1.0	µg/L	10.0		111	70-130			
1,1-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
trans-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dichloropropane	11.2	1.0	µg/L	10.0		112	70-130			
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130			
2,2-Dichloropropane	9.67	1.0	µg/L	10.0		96.7	40-130			†
1,1-Dichloropropene	10.3	2.0	µg/L	10.0		103	70-130			
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130			
trans-1,3-Dichloropropene	9.99	0.50	µg/L	10.0		99.9	70-130			
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130			
Diisopropyl Ether (DIPE)	9.70	0.50	µg/L	10.0		97.0	70-130			
1,4-Dioxane	100	50	µg/L	100		100	40-130			†
Ethylbenzene	9.53	1.0	µg/L	10.0		95.3	70-130			
Hexachlorobutadiene	9.70	0.60	µg/L	10.0		97.0	70-130			
2-Hexanone (MBK)	99.4	10	µg/L	100		99.4	70-160			†
Isopropylbenzene (Cumene)	9.62	1.0	µg/L	10.0		96.2	70-130			
p-Isopropyltoluene (p-Cymene)	9.92	1.0	µg/L	10.0		99.2	70-130			
Methyl Acetate	12.8	1.0	µg/L	10.0		128	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	9.71	1.0	µg/L	10.0		97.1	70-130			
Methyl Cyclohexane	10.0	1.0	µg/L	10.0		100	70-130			
Methylene Chloride	9.22	5.0	µg/L	10.0		92.2	70-130			
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	70-160			†
Naphthalene	7.74	2.0	µg/L	10.0		77.4	40-130			V-05 †
n-Propylbenzene	9.40	1.0	µg/L	10.0		94.0	70-130			
Styrene	9.86	1.0	µg/L	10.0		98.6	70-130			
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100	70-130			
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111	70-130			
Tetrahydrofuran	9.55	10	µg/L	10.0		95.5	70-130			J
Toluene	9.71	1.0	µg/L	10.0		97.1	70-130			
1,2,3-Trichlorobenzene	7.82	5.0	µg/L	10.0		78.2	70-130			V-05
1,2,4-Trichlorobenzene	9.05	1.0	µg/L	10.0		90.5	70-130			
1,3,5-Trichlorobenzene	9.36	1.0	µg/L	10.0		93.6	70-130			
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130			
Trichloroethylene	11.1	1.0	µg/L	10.0		111	70-130			
Trichlorofluoromethane (Freon 11)	9.12	2.0	µg/L	10.0		91.2	70-130			
1,2,3-Trichloropropane	10.8	2.0	µg/L	10.0		108	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274340 - SW-846 5030B

LCS (B274340-BS1)

Prepared & Analyzed: 01/12/21

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	1.0	µg/L	10.0		100	70-130			
1,2,3-Trimethylbenzene	9.22	0.50	µg/L	10.0		92.2	70-130			
1,2,4-Trimethylbenzene	9.13	1.0	µg/L	10.0		91.3	70-130			
1,3,5-Trimethylbenzene	9.80	1.0	µg/L	10.0		98.0	70-130			
Vinyl Chloride	9.74	2.0	µg/L	10.0		97.4	40-160			†
m+p Xylene	19.8	2.0	µg/L	20.0		99.1	70-130			
o-Xylene	9.45	1.0	µg/L	10.0		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.6		µg/L	25.0		94.3	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		102	70-130			

LCS Dup (B274340-BSD1)

Prepared & Analyzed: 01/12/21

Acetone	96.1	50	µg/L	100		96.1	70-160	4.83	25	†
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130	2.51	25	
tert-Amyl Methyl Ether (TAME)	9.43	0.50	µg/L	10.0		94.3	70-130	2.69	25	
Benzene	9.56	1.0	µg/L	10.0		95.6	70-130	0.00	25	
Bromobenzene	10.0	1.0	µg/L	10.0		100	70-130	2.53	25	
Bromochloromethane	10.8	1.0	µg/L	10.0		108	70-130	2.12	25	
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130	2.63	25	
Bromoform	9.40	1.0	µg/L	10.0		94.0	70-130	2.00	25	
Bromomethane	15.1	2.0	µg/L	10.0		151	40-160	3.23	25	V-20, V-34 †
2-Butanone (MEK)	91.7	20	µg/L	100		91.7	40-160	1.82	25	†
tert-Butyl Alcohol (TBA)	116	20	µg/L	100		116	40-160	3.23	25	†
n-Butylbenzene	8.85	1.0	µg/L	10.0		88.5	70-130	1.46	25	
sec-Butylbenzene	8.86	1.0	µg/L	10.0		88.6	70-130	2.45	25	
tert-Butylbenzene	9.67	1.0	µg/L	10.0		96.7	70-130	2.15	25	
tert-Butyl Ethyl Ether (TBEE)	10.2	0.50	µg/L	10.0		102	70-130	1.08	25	
Carbon Disulfide	80.8	5.0	µg/L	100		80.8	70-130	1.45	25	
Carbon Tetrachloride	9.97	5.0	µg/L	10.0		99.7	70-130	0.998	25	
Chlorobenzene	9.61	1.0	µg/L	10.0		96.1	70-130	0.932	25	
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130	1.33	25	
Chloroethane	10.8	2.0	µg/L	10.0		108	70-130	0.920	25	
Chloroform	10.0	2.0	µg/L	10.0		100	70-130	0.200	25	
Chloromethane	4.44	2.0	µg/L	10.0		44.4	40-160	0.00	25	V-05, V-34 †
2-Chlorotoluene	9.32	1.0	µg/L	10.0		93.2	70-130	2.44	25	
4-Chlorotoluene	9.51	1.0	µg/L	10.0		95.1	70-130	1.46	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.55	5.0	µg/L	10.0		85.5	70-130	8.30	25	
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110	70-130	2.95	25	
Dibromomethane	10.1	1.0	µg/L	10.0		101	70-130	1.30	25	
1,2-Dichlorobenzene	9.40	1.0	µg/L	10.0		94.0	70-130	2.26	25	
1,3-Dichlorobenzene	9.37	1.0	µg/L	10.0		93.7	70-130	0.320	25	
1,4-Dichlorobenzene	9.37	1.0	µg/L	10.0		93.7	70-130	0.744	25	
trans-1,4-Dichloro-2-butene	8.15	2.0	µg/L	10.0		81.5	70-130	0.245	25	
Dichlorodifluoromethane (Freon 12)	8.99	2.0	µg/L	10.0		89.9	40-160	1.55	25	†
1,1-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130	0.278	25	
1,2-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130	0.896	25	
1,1-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	0.445	25	
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.87	25	
trans-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	0.540	25	
1,2-Dichloropropane	11.2	1.0	µg/L	10.0		112	70-130	0.0895	25	
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130	1.73	25	
2,2-Dichloropropane	9.39	1.0	µg/L	10.0		93.9	40-130	2.94	25	†

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274340 - SW-846 5030B										
LCS Dup (B274340-BSD1)										
Prepared & Analyzed: 01/12/21										
1,1-Dichloropropene	10.1	2.0	µg/L	10.0		101	70-130	1.37	25	
cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	3.34	25	
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130	2.18	25	
Diethyl Ether	11.0	2.0	µg/L	10.0		110	70-130	2.11	25	
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.0		100	70-130	3.25	25	
1,4-Dioxane	111	50	µg/L	100		111	40-130	10.3	50	† ‡
Ethylbenzene	9.47	1.0	µg/L	10.0		94.7	70-130	0.632	25	
Hexachlorobutadiene	9.53	0.60	µg/L	10.0		95.3	70-130	1.77	25	
2-Hexanone (MBK)	101	10	µg/L	100		101	70-160	1.12	25	†
Isopropylbenzene (Cumene)	9.54	1.0	µg/L	10.0		95.4	70-130	0.835	25	
p-Isopropyltoluene (p-Cymene)	9.77	1.0	µg/L	10.0		97.7	70-130	1.52	25	
Methyl Acetate	13.0	1.0	µg/L	10.0		130	70-130	1.32	25	V-20
Methyl tert-Butyl Ether (MTBE)	10.0	1.0	µg/L	10.0		100	70-130	2.94	25	
Methyl Cyclohexane	9.80	1.0	µg/L	10.0		98.0	70-130	2.42	25	
Methylene Chloride	9.42	5.0	µg/L	10.0		94.2	70-130	2.15	25	
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102	70-160	0.741	25	†
Naphthalene	7.87	2.0	µg/L	10.0		78.7	40-130	1.67	25	V-05 †
n-Propylbenzene	9.25	1.0	µg/L	10.0		92.5	70-130	1.61	25	
Styrene	9.79	1.0	µg/L	10.0		97.9	70-130	0.712	25	
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130	2.05	25	
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130	0.696	25	
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110	70-130	1.09	25	
Tetrahydrofuran	9.47	10	µg/L	10.0		94.7	70-130	0.841	25	J
Toluene	9.58	1.0	µg/L	10.0		95.8	70-130	1.35	25	
1,2,3-Trichlorobenzene	7.89	5.0	µg/L	10.0		78.9	70-130	0.891	25	V-05
1,2,4-Trichlorobenzene	8.98	1.0	µg/L	10.0		89.8	70-130	0.776	25	
1,3,5-Trichlorobenzene	9.42	1.0	µg/L	10.0		94.2	70-130	0.639	25	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	1.34	25	
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130	1.95	25	
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	4.33	25	
Trichlorofluoromethane (Freon 11)	9.25	2.0	µg/L	10.0		92.5	70-130	1.42	25	
1,2,3-Trichloropropane	11.2	2.0	µg/L	10.0		112	70-130	3.65	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.0		102	70-130	1.87	25	
1,2,3-Trimethylbenzene	9.24	0.50	µg/L	10.0		92.4	70-130	0.217	25	
1,2,4-Trimethylbenzene	8.93	1.0	µg/L	10.0		89.3	70-130	2.21	25	
1,3,5-Trimethylbenzene	9.80	1.0	µg/L	10.0		98.0	70-130	0.00	25	
Vinyl Chloride	9.78	2.0	µg/L	10.0		97.8	40-160	0.410	25	†
m+p Xylene	19.5	2.0	µg/L	20.0		97.6	70-130	1.47	25	
o-Xylene	9.40	1.0	µg/L	10.0		94.0	70-130	0.531	25	
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.1	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.5		µg/L	25.0		102	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274469 - SW-846 3510C

Blank (B274469-BLK1)

Prepared: 01/13/21 Analyzed: 01/14/21

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							R-05, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							V-35
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274469 - SW-846 3510C										
Blank (B274469-BLK1)										
Prepared: 01/13/21 Analyzed: 01/14/21										
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							V-35
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							V-05
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	117		µg/L	200		58.4	15-110			
Surrogate: Phenol-d6	92.9		µg/L	200		46.4	15-110			
Surrogate: Nitrobenzene-d5	93.1		µg/L	100		93.1	30-130			
Surrogate: 2-Fluorobiphenyl	95.9		µg/L	100		95.9	30-130			
Surrogate: 2,4,6-Tribromophenol	89.4		µg/L	100		89.4	15-110			
Surrogate: p-Terphenyl-d14	112		µg/L	100		112	30-130			
LCS (B274469-BS1)										
Prepared: 01/13/21 Analyzed: 01/14/21										
Acenaphthene	36.9	5.0	µg/L	50.0		73.8	40-140			
Acenaphthylene	40.0	5.0	µg/L	50.0		80.0	40-140			
Acetophenone	41.2	10	µg/L	50.0		82.3	40-140			
Aniline	44.8	5.0	µg/L	50.0		89.7	40-140			
Anthracene	41.8	5.0	µg/L	50.0		83.7	40-140			
Benzidine	27.0	20	µg/L	50.0		54.1	40-140			R-05, V-04, V-05
Benzo(a)anthracene	40.4	5.0	µg/L	50.0		80.9	40-140			
Benzo(a)pyrene	39.2	5.0	µg/L	50.0		78.3	40-140			
Benzo(b)fluoranthene	40.0	5.0	µg/L	50.0		80.1	40-140			
Benzo(g,h,i)perylene	43.0	5.0	µg/L	50.0		86.1	40-140			
Benzo(k)fluoranthene	39.7	5.0	µg/L	50.0		79.3	40-140			
Benzoic Acid	20.8	10	µg/L	50.0		41.5	10-130			†
Bis(2-chloroethoxy)methane	39.5	10	µg/L	50.0		79.0	40-140			
Bis(2-chloroethyl)ether	43.2	10	µg/L	50.0		86.4	40-140			
Bis(2-chloroisopropyl)ether	54.3	10	µg/L	50.0		109	40-140			V-35
Bis(2-Ethylhexyl)phthalate	41.0	10	µg/L	50.0		81.9	40-140			
4-Bromophenylphenylether	35.2	10	µg/L	50.0		70.4	40-140			
Butylbenzylphthalate	43.2	10	µg/L	50.0		86.4	40-140			
Carbazole	40.6	10	µg/L	50.0		81.3	40-140			
4-Chloroaniline	37.5	10	µg/L	50.0		75.0	40-140			V-34
4-Chloro-3-methylphenol	42.2	10	µg/L	50.0		84.4	30-130			
2-Chloronaphthalene	31.8	10	µg/L	50.0		63.6	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274469 - SW-846 3510C										
LCS (B274469-BS1)										
				Prepared: 01/13/21 Analyzed: 01/14/21						
2-Chlorophenol	36.4	10	µg/L	50.0		72.8	30-130			
4-Chlorophenylphenylether	36.9	10	µg/L	50.0		73.7	40-140			
Chrysene	39.8	5.0	µg/L	50.0		79.6	40-140			
Dibenz(a,h)anthracene	40.7	5.0	µg/L	50.0		81.4	40-140			
Dibenzofuran	39.8	5.0	µg/L	50.0		79.7	40-140			
Di-n-butylphthalate	40.6	10	µg/L	50.0		81.2	40-140			
1,2-Dichlorobenzene	23.6	5.0	µg/L	50.0		47.2	40-140			
1,3-Dichlorobenzene	21.4	5.0	µg/L	50.0		42.9	40-140			
1,4-Dichlorobenzene	22.6	5.0	µg/L	50.0		45.2	40-140			
3,3-Dichlorobenzidine	43.1	10	µg/L	50.0		86.3	40-140			
2,4-Dichlorophenol	37.1	10	µg/L	50.0		74.2	30-130			
Diethylphthalate	39.9	10	µg/L	50.0		79.8	40-140			
2,4-Dimethylphenol	38.1	10	µg/L	50.0		76.2	30-130			
Dimethylphthalate	40.2	10	µg/L	50.0		80.3	40-140			
4,6-Dinitro-2-methylphenol	36.9	10	µg/L	50.0		73.9	30-130			
2,4-Dinitrophenol	37.3	10	µg/L	50.0		74.6	30-130			
2,4-Dinitrotoluene	42.4	10	µg/L	50.0		84.8	40-140			
2,6-Dinitrotoluene	44.3	10	µg/L	50.0		88.6	40-140			
Di-n-octylphthalate	41.4	10	µg/L	50.0		82.7	40-140			
1,2-Diphenylhydrazine/Azobenzene	44.4	10	µg/L	50.0		88.8	40-140			
Fluoranthene	40.3	5.0	µg/L	50.0		80.6	40-140			
Fluorene	39.8	5.0	µg/L	50.0		79.7	40-140			
Hexachlorobenzene	36.8	10	µg/L	50.0		73.5	40-140			
Hexachlorobutadiene	22.5	10	µg/L	50.0		45.0	40-140			
Hexachlorocyclopentadiene	17.6	10	µg/L	50.0		35.1	30-140			V-05 †
Hexachloroethane	21.0	10	µg/L	50.0		42.1	40-140			
Indeno(1,2,3-cd)pyrene	42.0	5.0	µg/L	50.0		83.9	40-140			
Isophorone	46.5	10	µg/L	50.0		92.9	40-140			
1-Methylnaphthalene	33.6	5.0	µg/L	50.0		67.2	40-140			
2-Methylnaphthalene	37.9	5.0	µg/L	50.0		75.9	40-140			
2-Methylphenol	36.8	10	µg/L	50.0		73.5	30-130			
3/4-Methylphenol	36.6	10	µg/L	50.0		73.1	30-130			
Naphthalene	33.3	5.0	µg/L	50.0		66.6	40-140			
2-Nitroaniline	49.8	10	µg/L	50.0		99.6	40-140			V-35
3-Nitroaniline	42.9	10	µg/L	50.0		85.8	40-140			
4-Nitroaniline	41.9	10	µg/L	50.0		83.7	40-140			
Nitrobenzene	39.5	10	µg/L	50.0		79.1	40-140			
2-Nitrophenol	37.6	10	µg/L	50.0		75.1	30-130			
4-Nitrophenol	28.2	10	µg/L	50.0		56.5	10-130			†
N-Nitrosodimethylamine	23.6	10	µg/L	50.0		47.3	40-140			
N-Nitrosodiphenylamine/Diphenylamine	39.8	10	µg/L	50.0		79.6	40-140			
N-Nitrosodi-n-propylamine	44.2	10	µg/L	50.0		88.4	40-140			
Pentachloronitrobenzene	38.4	10	µg/L	50.0		76.8	40-140			
Pentachlorophenol	29.4	10	µg/L	50.0		58.8	30-130			V-05
Phenanthrene	41.1	5.0	µg/L	50.0		82.2	40-140			
Phenol	19.1	10	µg/L	50.0		38.1	20-130			†
Pyrene	42.1	5.0	µg/L	50.0		84.2	40-140			
Pyridine	14.3	5.0	µg/L	50.0		28.5	10-140			†
1,2,4,5-Tetrachlorobenzene	31.8	10	µg/L	50.0		63.5	40-140			
1,2,4-Trichlorobenzene	26.0	5.0	µg/L	50.0		52.0	40-140			
2,4,5-Trichlorophenol	39.1	10	µg/L	50.0		78.2	30-130			
2,4,6-Trichlorophenol	37.5	10	µg/L	50.0		75.1	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274469 - SW-846 3510C

LCS (B274469-BS1)

Prepared: 01/13/21 Analyzed: 01/14/21

Surrogate: 2-Fluorophenol	105		µg/L	200		52.5	15-110			
Surrogate: Phenol-d6	87.7		µg/L	200		43.8	15-110			
Surrogate: Nitrobenzene-d5	82.5		µg/L	100		82.5	30-130			
Surrogate: 2-Fluorobiphenyl	87.6		µg/L	100		87.6	30-130			
Surrogate: 2,4,6-Tribromophenol	84.6		µg/L	100		84.6	15-110			
Surrogate: p-Terphenyl-d14	95.4		µg/L	100		95.4	30-130			

LCS (B274469-BS2)

Prepared: 01/13/21 Analyzed: 01/14/21

Acenaphthene	37.4	5.0	µg/L	50.0		74.7	40-140			
Acenaphthylene	39.8	5.0	µg/L	50.0		79.5	40-140			
Acetophenone	42.6	10	µg/L	50.0		85.2	40-140			
Aniline	47.2	5.0	µg/L	50.0		94.4	40-140			
Anthracene	40.4	5.0	µg/L	50.0		80.8	40-140			
Benzidine	23.5	20	µg/L	50.0		46.9	40-140			
Benzo(a)anthracene	39.8	5.0	µg/L	50.0		79.5	40-140			
Benzo(a)pyrene	39.4	5.0	µg/L	50.0		78.7	40-140			
Benzo(b)fluoranthene	40.6	5.0	µg/L	50.0		81.2	40-140			
Benzo(g,h,i)perylene	43.0	5.0	µg/L	50.0		86.1	40-140			
Benzo(k)fluoranthene	40.0	5.0	µg/L	50.0		79.9	40-140			
Benzoic Acid	20.2	10	µg/L	50.0		40.5	10-130			†
Bis(2-chloroethoxy)methane	40.6	10	µg/L	50.0		81.1	40-140			
Bis(2-chloroethyl)ether	43.9	10	µg/L	50.0		87.9	40-140			
Bis(2-chloroisopropyl)ether	55.9	10	µg/L	50.0		112	40-140			
Bis(2-Ethylhexyl)phthalate	40.5	10	µg/L	50.0		80.9	40-140			
4-Bromophenylphenylether	33.8	10	µg/L	50.0		67.5	40-140			
Butylbenzylphthalate	41.9	10	µg/L	50.0		83.8	40-140			
Carbazole	40.0	10	µg/L	50.0		80.1	40-140			
4-Chloroaniline	38.7	10	µg/L	50.0		77.5	40-140			
4-Chloro-3-methylphenol	41.6	10	µg/L	50.0		83.1	30-130			
2-Chloronaphthalene	32.9	10	µg/L	50.0		65.8	40-140			
2-Chlorophenol	36.6	10	µg/L	50.0		73.2	30-130			
4-Chlorophenylphenylether	36.4	10	µg/L	50.0		72.8	40-140			
Chrysene	38.8	5.0	µg/L	50.0		77.6	40-140			
Dibenz(a,h)anthracene	42.4	5.0	µg/L	50.0		84.7	40-140			
Dibenzofuran	40.1	5.0	µg/L	50.0		80.3	40-140			
Di-n-butylphthalate	40.0	10	µg/L	50.0		80.1	40-140			
1,2-Dichlorobenzene	31.0	5.0	µg/L	50.0		62.1	40-140			
1,3-Dichlorobenzene	29.1	5.0	µg/L	50.0		58.2	40-140			
1,4-Dichlorobenzene	29.4	5.0	µg/L	50.0		58.8	40-140			
3,3-Dichlorobenzidine	43.9	10	µg/L	50.0		87.8	40-140			
2,4-Dichlorophenol	36.2	10	µg/L	50.0		72.4	30-130			
Diethylphthalate	39.4	10	µg/L	50.0		78.7	40-140			
2,4-Dimethylphenol	37.1	10	µg/L	50.0		74.2	30-130			
Dimethylphthalate	39.5	10	µg/L	50.0		79.1	40-140			
4,6-Dinitro-2-methylphenol	37.5	10	µg/L	50.0		75.1	30-130			
2,4-Dinitrophenol	36.3	10	µg/L	50.0		72.7	30-130			
2,4-Dinitrotoluene	41.1	10	µg/L	50.0		82.1	40-140			
2,6-Dinitrotoluene	43.7	10	µg/L	50.0		87.4	40-140			
Di-n-octylphthalate	41.8	10	µg/L	50.0		83.6	40-140			
1,2-Diphenylhydrazine/Azobenzene	43.6	10	µg/L	50.0		87.3	40-140			
Fluoranthene	39.6	5.0	µg/L	50.0		79.3	40-140			
Fluorene	39.9	5.0	µg/L	50.0		79.7	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274469 - SW-846 3510C

LCS (B274469-BS2)

Prepared: 01/13/21 Analyzed: 01/14/21

Hexachlorobenzene	35.9	10	µg/L	50.0		71.8	40-140			
Hexachlorobutadiene	28.8	10	µg/L	50.0		57.7	40-140			
Hexachlorocyclopentadiene	21.0	10	µg/L	50.0		42.0	30-140			†
Hexachloroethane	31.1	10	µg/L	50.0		62.3	40-140			
Indeno(1,2,3-cd)pyrene	43.1	5.0	µg/L	50.0		86.2	40-140			
Isophorone	44.9	10	µg/L	50.0		89.8	40-140			
1-Methylnaphthalene	35.4	5.0	µg/L	50.0		70.8	40-140			
2-Methylnaphthalene	39.6	5.0	µg/L	50.0		79.1	40-140			
2-Methylphenol	37.7	10	µg/L	50.0		75.4	30-130			
3/4-Methylphenol	36.5	10	µg/L	50.0		73.0	30-130			
Naphthalene	36.4	5.0	µg/L	50.0		72.8	40-140			
2-Nitroaniline	47.8	10	µg/L	50.0		95.5	40-140			
3-Nitroaniline	41.2	10	µg/L	50.0		82.4	40-140			
4-Nitroaniline	41.0	10	µg/L	50.0		82.1	40-140			
Nitrobenzene	39.4	10	µg/L	50.0		78.8	40-140			
2-Nitrophenol	37.1	10	µg/L	50.0		74.3	30-130			
4-Nitrophenol	26.8	10	µg/L	50.0		53.7	10-130			†
N-Nitrosodimethylamine	26.7	10	µg/L	50.0		53.4	40-140			
N-Nitrosodiphenylamine/Diphenylamine	38.7	10	µg/L	50.0		77.3	40-140			
N-Nitrosodi-n-propylamine	45.5	10	µg/L	50.0		91.0	40-140			
Pentachloronitrobenzene	37.7	10	µg/L	50.0		75.4	40-140			
Pentachlorophenol	26.9	10	µg/L	50.0		53.8	30-130			
Phenanthrene	39.5	5.0	µg/L	50.0		79.1	40-140			
Phenol	18.7	10	µg/L	50.0		37.5	20-130			†
Pyrene	41.9	5.0	µg/L	50.0		83.8	40-140			
Pyridine	13.1	5.0	µg/L	50.0		26.1	10-140			†
1,2,4,5-Tetrachlorobenzene	32.7	10	µg/L	50.0		65.4	40-140			
1,2,4-Trichlorobenzene	29.6	5.0	µg/L	50.0		59.1	40-140			
2,4,5-Trichlorophenol	37.9	10	µg/L	50.0		75.8	30-130			
2,4,6-Trichlorophenol	36.0	10	µg/L	50.0		71.9	30-130			
Surrogate: 2-Fluorophenol	102		µg/L	200		51.0	15-110			
Surrogate: Phenol-d6	82.8		µg/L	200		41.4	15-110			
Surrogate: Nitrobenzene-d5	80.5		µg/L	100		80.5	30-130			
Surrogate: 2-Fluorobiphenyl	84.8		µg/L	100		84.8	30-130			
Surrogate: 2,4,6-Tribromophenol	78.6		µg/L	100		78.6	15-110			
Surrogate: p-Terphenyl-d14	89.2		µg/L	100		89.2	30-130			

LCS (B274469-BS3)

Prepared: 01/13/21 Analyzed: 01/14/21

Acenaphthene	41.2	5.0	µg/L	50.0		82.3	40-140			
Acenaphthylene	44.9	5.0	µg/L	50.0		89.8	40-140			
Acetophenone	43.1	10	µg/L	50.0		86.3	40-140			
Aniline	45.8	5.0	µg/L	50.0		91.6	40-140			
Anthracene	45.8	5.0	µg/L	50.0		91.7	40-140			
Benzidine	28.9	20	µg/L	50.0		57.9	40-140			
Benzo(a)anthracene	43.4	5.0	µg/L	50.0		86.9	40-140			
Benzo(a)pyrene	42.5	5.0	µg/L	50.0		84.9	40-140			
Benzo(b)fluoranthene	43.1	5.0	µg/L	50.0		86.1	40-140			
Benzo(g,h,i)perylene	46.9	5.0	µg/L	50.0		93.8	40-140			
Benzo(k)fluoranthene	43.3	5.0	µg/L	50.0		86.7	40-140			
Benzoic Acid	23.4	10	µg/L	50.0		46.8	10-130			†
Bis(2-chloroethoxy)methane	42.6	10	µg/L	50.0		85.2	40-140			
Bis(2-chloroethyl)ether	46.3	10	µg/L	50.0		92.5	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274469 - SW-846 3510C										
LCS (B274469-BS3)										
				Prepared: 01/13/21 Analyzed: 01/14/21						
Bis(2-chloroisopropyl)ether	57.0	10	µg/L	50.0		114	40-140			
Bis(2-Ethylhexyl)phthalate	43.4	10	µg/L	50.0		86.9	40-140			
4-Bromophenylphenylether	39.6	10	µg/L	50.0		79.1	40-140			
Butylbenzylphthalate	46.0	10	µg/L	50.0		92.0	40-140			
Carbazole	44.5	10	µg/L	50.0		88.9	40-140			
4-Chloroaniline	38.2	10	µg/L	50.0		76.4	40-140			
4-Chloro-3-methylphenol	44.8	10	µg/L	50.0		89.5	30-130			
2-Chloronaphthalene	36.4	10	µg/L	50.0		72.7	40-140			
2-Chlorophenol	37.4	10	µg/L	50.0		74.8	30-130			
4-Chlorophenylphenylether	40.5	10	µg/L	50.0		81.0	40-140			
Chrysene	43.2	5.0	µg/L	50.0		86.4	40-140			
Dibenz(a,h)anthracene	46.3	5.0	µg/L	50.0		92.5	40-140			
Dibenzofuran	44.0	5.0	µg/L	50.0		88.1	40-140			
Di-n-butylphthalate	44.6	10	µg/L	50.0		89.1	40-140			
1,2-Dichlorobenzene	31.9	5.0	µg/L	50.0		63.7	40-140			
1,3-Dichlorobenzene	30.2	5.0	µg/L	50.0		60.5	40-140			
1,4-Dichlorobenzene	30.7	5.0	µg/L	50.0		61.5	40-140			
3,3-Dichlorobenzidine	46.0	10	µg/L	50.0		91.9	40-140			
2,4-Dichlorophenol	39.8	10	µg/L	50.0		79.6	30-130			
Diethylphthalate	44.0	10	µg/L	50.0		88.1	40-140			
2,4-Dimethylphenol	40.0	10	µg/L	50.0		80.0	30-130			
Dimethylphthalate	43.6	10	µg/L	50.0		87.3	40-140			
4,6-Dinitro-2-methylphenol	40.2	10	µg/L	50.0		80.3	30-130			
2,4-Dinitrophenol	40.7	10	µg/L	50.0		81.5	30-130			
2,4-Dinitrotoluene	46.1	10	µg/L	50.0		92.2	40-140			
2,6-Dinitrotoluene	48.1	10	µg/L	50.0		96.2	40-140			
Di-n-octylphthalate	44.7	10	µg/L	50.0		89.4	40-140			
1,2-Diphenylhydrazine/Azobenzene	49.2	10	µg/L	50.0		98.4	40-140			
Fluoranthene	43.7	5.0	µg/L	50.0		87.5	40-140			
Fluorene	43.4	5.0	µg/L	50.0		86.8	40-140			
Hexachlorobenzene	41.1	10	µg/L	50.0		82.3	40-140			
Hexachlorobutadiene	30.9	10	µg/L	50.0		61.9	40-140			
Hexachlorocyclopentadiene	23.3	10	µg/L	50.0		46.6	30-140			†
Hexachloroethane	30.2	10	µg/L	50.0		60.5	40-140			
Indeno(1,2,3-cd)pyrene	46.2	5.0	µg/L	50.0		92.4	40-140			
Isophorone	48.3	10	µg/L	50.0		96.6	40-140			
1-Methylnaphthalene	37.8	5.0	µg/L	50.0		75.6	40-140			
2-Methylnaphthalene	42.5	5.0	µg/L	50.0		85.0	40-140			
2-Methylphenol	39.2	10	µg/L	50.0		78.4	30-130			
3/4-Methylphenol	37.7	10	µg/L	50.0		75.5	30-130			
Naphthalene	38.8	5.0	µg/L	50.0		77.5	40-140			
2-Nitroaniline	54.7	10	µg/L	50.0		109	40-140			
3-Nitroaniline	45.0	10	µg/L	50.0		90.0	40-140			
4-Nitroaniline	45.3	10	µg/L	50.0		90.6	40-140			
Nitrobenzene	42.8	10	µg/L	50.0		85.6	40-140			
2-Nitrophenol	39.5	10	µg/L	50.0		78.9	30-130			
4-Nitrophenol	30.2	10	µg/L	50.0		60.5	10-130			†
N-Nitrosodimethylamine	30.2	10	µg/L	50.0		60.3	40-140			
N-Nitrosodiphenylamine/Diphenylamine	43.7	10	µg/L	50.0		87.4	40-140			
N-Nitrosodi-n-propylamine	47.0	10	µg/L	50.0		94.0	40-140			
Pentachloronitrobenzene	42.3	10	µg/L	50.0		84.6	40-140			
Pentachlorophenol	29.7	10	µg/L	50.0		59.4	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274469 - SW-846 3510C										
LCS (B274469-BS3)										
					Prepared: 01/13/21 Analyzed: 01/14/21					
Phenanthrene	44.9	5.0	µg/L	50.0		89.8	40-140			
Phenol	20.1	10	µg/L	50.0		40.1	20-130			†
Pyrene	46.0	5.0	µg/L	50.0		91.9	40-140			
Pyridine	16.3	5.0	µg/L	50.0		32.7	10-140			†
1,2,4,5-Tetrachlorobenzene	36.2	10	µg/L	50.0		72.3	40-140			
1,2,4-Trichlorobenzene	33.3	5.0	µg/L	50.0		66.7	40-140			
2,4,5-Trichlorophenol	41.4	10	µg/L	50.0		82.9	30-130			
2,4,6-Trichlorophenol	40.4	10	µg/L	50.0		80.8	30-130			
Surrogate: 2-Fluorophenol	108		µg/L	200		53.8	15-110			
Surrogate: Phenol-d6	87.5		µg/L	200		43.7	15-110			
Surrogate: Nitrobenzene-d5	85.8		µg/L	100		85.8	30-130			
Surrogate: 2-Fluorobiphenyl	93.0		µg/L	100		93.0	30-130			
Surrogate: 2,4,6-Tribromophenol	86.3		µg/L	100		86.3	15-110			
Surrogate: p-Terphenyl-d14	95.4		µg/L	100		95.4	30-130			
LCS Dup (B274469-BSD1)										
					Prepared: 01/13/21 Analyzed: 01/14/21					
Acenaphthene	36.3	5.0	µg/L	50.0		72.7	40-140	1.58	20	
Acenaphthylene	39.4	5.0	µg/L	50.0		78.8	40-140	1.49	20	
Acetophenone	38.1	10	µg/L	50.0		76.3	40-140	7.64	20	
Aniline	45.5	5.0	µg/L	50.0		91.0	40-140	1.42	50	‡
Anthracene	41.0	5.0	µg/L	50.0		81.9	40-140	2.13	20	
Benzidine	46.4	20	µg/L	50.0		92.9	40-140	52.8 *	20	V-05, R-05, V-04
Benzo(a)anthracene	39.4	5.0	µg/L	50.0		78.9	40-140	2.53	20	
Benzo(a)pyrene	38.7	5.0	µg/L	50.0		77.3	40-140	1.29	20	
Benzo(b)fluoranthene	39.2	5.0	µg/L	50.0		78.3	40-140	2.22	20	
Benzo(g,h,i)perylene	42.8	5.0	µg/L	50.0		85.5	40-140	0.676	20	
Benzo(k)fluoranthene	39.4	5.0	µg/L	50.0		78.8	40-140	0.658	20	
Benzoic Acid	19.2	10	µg/L	50.0		38.3	10-130	8.07	50	† ‡
Bis(2-chloroethoxy)methane	37.3	10	µg/L	50.0		74.7	40-140	5.60	20	
Bis(2-chloroethyl)ether	41.0	10	µg/L	50.0		81.9	40-140	5.28	20	
Bis(2-chloroisopropyl)ether	50.3	10	µg/L	50.0		101	40-140	7.53	20	V-35
Bis(2-Ethylhexyl)phthalate	40.9	10	µg/L	50.0		81.8	40-140	0.0977	20	
4-Bromophenylphenylether	35.9	10	µg/L	50.0		71.7	40-140	1.86	20	
Butylbenzylphthalate	42.6	10	µg/L	50.0		85.2	40-140	1.47	20	
Carbazole	40.3	10	µg/L	50.0		80.5	40-140	0.939	20	
4-Chloroaniline	36.7	10	µg/L	50.0		73.4	40-140	2.08	20	V-34
4-Chloro-3-methylphenol	40.4	10	µg/L	50.0		80.9	30-130	4.21	20	
2-Chloronaphthalene	30.7	10	µg/L	50.0		61.5	40-140	3.45	20	
2-Chlorophenol	33.4	10	µg/L	50.0		66.8	30-130	8.65	20	
4-Chlorophenylphenylether	36.5	10	µg/L	50.0		73.0	40-140	1.04	20	
Chrysene	39.1	5.0	µg/L	50.0		78.2	40-140	1.77	20	
Dibenz(a,h)anthracene	42.6	5.0	µg/L	50.0		85.3	40-140	4.70	20	
Dibenzofuran	38.9	5.0	µg/L	50.0		77.9	40-140	2.28	20	
Di-n-butylphthalate	40.9	10	µg/L	50.0		81.8	40-140	0.687	20	
1,2-Dichlorobenzene	26.7	5.0	µg/L	50.0		53.4	40-140	12.4	20	
1,3-Dichlorobenzene	24.9	5.0	µg/L	50.0		49.8	40-140	15.0	20	
1,4-Dichlorobenzene	25.7	5.0	µg/L	50.0		51.5	40-140	13.0	20	
3,3-Dichlorobenzidine	42.2	10	µg/L	50.0		84.4	40-140	2.16	20	
2,4-Dichlorophenol	34.4	10	µg/L	50.0		68.7	30-130	7.59	20	
Diethylphthalate	39.9	10	µg/L	50.0		79.8	40-140	0.100	20	
2,4-Dimethylphenol	36.0	10	µg/L	50.0		72.0	30-130	5.56	20	
Dimethylphthalate	39.7	10	µg/L	50.0		79.3	40-140	1.23	50	‡

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274469 - SW-846 3510C										
LCS Dup (B274469-BSD1)										
					Prepared: 01/13/21 Analyzed: 01/14/21					
4,6-Dinitro-2-methylphenol	37.9	10	µg/L	50.0		75.7	30-130	2.49	50	‡
2,4-Dinitrophenol	38.6	10	µg/L	50.0		77.1	30-130	3.32	50	‡
2,4-Dinitrotoluene	41.6	10	µg/L	50.0		83.1	40-140	2.05	20	
2,6-Dinitrotoluene	42.8	10	µg/L	50.0		85.7	40-140	3.35	20	
Di-n-octylphthalate	41.7	10	µg/L	50.0		83.4	40-140	0.795	20	
1,2-Diphenylhydrazine/Azobenzene	44.0	10	µg/L	50.0		87.9	40-140	0.951	20	
Fluoranthene	39.8	5.0	µg/L	50.0		79.5	40-140	1.37	20	
Fluorene	39.2	5.0	µg/L	50.0		78.4	40-140	1.59	20	
Hexachlorobenzene	36.1	10	µg/L	50.0		72.1	40-140	1.95	20	
Hexachlorobutadiene	24.5	10	µg/L	50.0		49.1	40-140	8.63	20	
Hexachlorocyclopentadiene	19.2	10	µg/L	50.0		38.5	30-140	9.13	50	V-05 † ‡
Hexachloroethane	24.8	10	µg/L	50.0		49.5	40-140	16.3	50	‡
Indeno(1,2,3-cd)pyrene	41.8	5.0	µg/L	50.0		83.7	40-140	0.334	50	‡
Isophorone	42.4	10	µg/L	50.0		84.9	40-140	9.07	20	
1-Methylnaphthalene	32.4	5.0	µg/L	50.0		64.8	40-140	3.58	20	
2-Methylnaphthalene	36.8	5.0	µg/L	50.0		73.6	40-140	3.02	20	
2-Methylphenol	34.7	10	µg/L	50.0		69.4	30-130	5.79	20	
3/4-Methylphenol	35.1	10	µg/L	50.0		70.2	30-130	4.02	20	
Naphthalene	32.8	5.0	µg/L	50.0		65.5	40-140	1.60	20	
2-Nitroaniline	49.0	10	µg/L	50.0		98.1	40-140	1.48	20	V-35
3-Nitroaniline	41.5	10	µg/L	50.0		83.1	40-140	3.27	20	
4-Nitroaniline	40.9	10	µg/L	50.0		81.8	40-140	2.34	20	
Nitrobenzene	37.1	10	µg/L	50.0		74.2	40-140	6.32	20	
2-Nitrophenol	34.9	10	µg/L	50.0		69.8	30-130	7.43	20	
4-Nitrophenol	27.0	10	µg/L	50.0		54.0	10-130	4.49	50	† ‡
N-Nitrosodimethylamine	23.3	10	µg/L	50.0		46.6	40-140	1.53	20	
N-Nitrosodiphenylamine/Diphenylamine	39.1	10	µg/L	50.0		78.3	40-140	1.75	20	
N-Nitrosodi-n-propylamine	42.0	10	µg/L	50.0		83.9	40-140	5.20	20	
Pentachloronitrobenzene	38.8	10	µg/L	50.0		77.5	40-140	0.907	20	
Pentachlorophenol	28.7	10	µg/L	50.0		57.5	30-130	2.20	50	V-05 ‡
Phenanthrene	40.3	5.0	µg/L	50.0		80.7	40-140	1.89	20	
Phenol	17.8	10	µg/L	50.0		35.7	20-130	6.72	20	†
Pyrene	42.4	5.0	µg/L	50.0		84.7	40-140	0.592	20	
Pyridine	16.3	5.0	µg/L	50.0		32.7	10-140	13.6	50	† ‡
1,2,4,5-Tetrachlorobenzene	31.5	10	µg/L	50.0		62.9	40-140	0.981	20	
1,2,4-Trichlorobenzene	27.8	5.0	µg/L	50.0		55.6	40-140	6.69	20	
2,4,5-Trichlorophenol	37.7	10	µg/L	50.0		75.4	30-130	3.67	20	
2,4,6-Trichlorophenol	36.4	10	µg/L	50.0		72.9	30-130	2.95	50	‡
Surrogate: 2-Fluorophenol	95.0		µg/L	200		47.5	15-110			
Surrogate: Phenol-d6	79.1		µg/L	200		39.5	15-110			
Surrogate: Nitrobenzene-d5	72.1		µg/L	100		72.1	30-130			
Surrogate: 2-Fluorobiphenyl	83.2		µg/L	100		83.2	30-130			
Surrogate: 2,4,6-Tribromophenol	78.3		µg/L	100		78.3	15-110			
Surrogate: p-Terphenyl-d14	90.7		µg/L	100		90.7	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B274464 - SW-846 3510C

Blank (B274464-BLK1)

Prepared: 01/13/21 Analyzed: 01/15/21

C9-C18 Aliphatics	ND	100	µg/L							
C19-C36 Aliphatics	ND	100	µg/L							
Unadjusted C11-C22 Aromatics	ND	100	µg/L							
C11-C22 Aromatics	ND	100	µg/L							
Acenaphthene	ND	2.0	µg/L							
Acenaphthylene	ND	2.0	µg/L							
Anthracene	ND	2.0	µg/L							
Benzo(a)anthracene	ND	2.0	µg/L							
Benzo(a)pyrene	ND	2.0	µg/L							
Benzo(b)fluoranthene	ND	2.0	µg/L							
Benzo(g,h,i)perylene	ND	2.0	µg/L							
Benzo(k)fluoranthene	ND	2.0	µg/L							
Chrysene	ND	2.0	µg/L							
Dibenz(a,h)anthracene	ND	2.0	µg/L							
Fluoranthene	ND	2.0	µg/L							
Fluorene	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L							
2-Methylnaphthalene	ND	2.0	µg/L							
Naphthalene	ND	2.0	µg/L							
Phenanthrene	ND	2.0	µg/L							
Pyrene	ND	2.0	µg/L							
Naphthalene-aliphatic fraction	ND	2.0	µg/L							
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L							
Surrogate: Chlorooctadecane (COD)	67.9		µg/L	100		67.9	40-140			
Surrogate: o-Terphenyl (OTP)	80.5		µg/L	100		80.5	40-140			
Surrogate: 2-Bromonaphthalene	104		µg/L	100		104	40-140			
Surrogate: 2-Fluorobiphenyl	105		µg/L	100		105	40-140			

LCS (B274464-BS1)

Prepared: 01/13/21 Analyzed: 01/15/21

C9-C18 Aliphatics	457	100	µg/L	600		76.1	0-200			
C19-C36 Aliphatics	757	100	µg/L	800		94.6	0-200			
Unadjusted C11-C22 Aromatics	1530	100	µg/L	1700		90.1	0-200			
Acenaphthene	82.9	2.0	µg/L	100		82.9	40-140			
Acenaphthylene	78.0	2.0	µg/L	100		78.0	40-140			
Anthracene	89.0	2.0	µg/L	100		89.0	40-140			
Benzo(a)anthracene	94.5	2.0	µg/L	100		94.5	40-140			
Benzo(a)pyrene	90.5	2.0	µg/L	100		90.5	40-140			
Benzo(b)fluoranthene	101	2.0	µg/L	100		101	40-140			
Benzo(g,h,i)perylene	82.5	2.0	µg/L	100		82.5	40-140			
Benzo(k)fluoranthene	75.8	2.0	µg/L	100		75.8	40-140			
Chrysene	91.0	2.0	µg/L	100		91.0	40-140			
Dibenz(a,h)anthracene	88.5	2.0	µg/L	100		88.5	40-140			
Fluoranthene	90.6	2.0	µg/L	100		90.6	40-140			
Fluorene	87.2	2.0	µg/L	100		87.2	40-140			
Indeno(1,2,3-cd)pyrene	82.7	2.0	µg/L	100		82.7	40-140			
2-Methylnaphthalene	73.5	2.0	µg/L	100		73.5	40-140			
Naphthalene	67.6	2.0	µg/L	100		67.6	40-140			
Phenanthrene	91.5	2.0	µg/L	100		91.5	40-140			
Pyrene	91.7	2.0	µg/L	100		91.7	40-140			
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	75.9		µg/L	100		75.9	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274464 - SW-846 3510C										
LCS (B274464-BS1)										
					Prepared: 01/13/21 Analyzed: 01/15/21					
Surrogate: o-Terphenyl (OTP)	88.1		µg/L	100		88.1	40-140			
Surrogate: 2-Bromonaphthalene	104		µg/L	100		104	40-140			
Surrogate: 2-Fluorobiphenyl	104		µg/L	100		104	40-140			
LCS Dup (B274464-BSD1)										
					Prepared: 01/13/21 Analyzed: 01/15/21					
C9-C18 Aliphatics	446	100	µg/L	600		74.3	0-200	2.47		
C19-C36 Aliphatics	743	100	µg/L	800		92.8	0-200	1.88		
Unadjusted C11-C22 Aromatics	1550	100	µg/L	1700		91.4	0-200	1.43		
Acenaphthene	82.6	2.0	µg/L	100		82.6	40-140	0.336	25	
Acenaphthylene	77.4	2.0	µg/L	100		77.4	40-140	0.752	25	
Anthracene	90.7	2.0	µg/L	100		90.7	40-140	1.94	25	
Benzo(a)anthracene	96.4	2.0	µg/L	100		96.4	40-140	1.99	25	
Benzo(a)pyrene	92.2	2.0	µg/L	100		92.2	40-140	1.84	25	
Benzo(b)fluoranthene	103	2.0	µg/L	100		103	40-140	2.13	25	
Benzo(g,h,i)perylene	83.9	2.0	µg/L	100		83.9	40-140	1.65	25	
Benzo(k)fluoranthene	76.7	2.0	µg/L	100		76.7	40-140	1.18	25	
Chrysene	92.8	2.0	µg/L	100		92.8	40-140	1.92	25	
Dibenz(a,h)anthracene	89.9	2.0	µg/L	100		89.9	40-140	1.52	25	
Fluoranthene	92.6	2.0	µg/L	100		92.6	40-140	2.23	25	
Fluorene	88.1	2.0	µg/L	100		88.1	40-140	1.08	25	
Indeno(1,2,3-cd)pyrene	84.1	2.0	µg/L	100		84.1	40-140	1.65	25	
2-Methylnaphthalene	71.8	2.0	µg/L	100		71.8	40-140	2.42	25	
Naphthalene	65.7	2.0	µg/L	100		65.7	40-140	2.86	25	
Phenanthrene	93.2	2.0	µg/L	100		93.2	40-140	1.84	25	
Pyrene	93.6	2.0	µg/L	100		93.6	40-140	2.15	25	
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	74.9		µg/L	100		74.9	40-140			
Surrogate: o-Terphenyl (OTP)	91.9		µg/L	100		91.9	40-140			
Surrogate: 2-Bromonaphthalene	108		µg/L	100		108	40-140			
Surrogate: 2-Fluorobiphenyl	108		µg/L	100		108	40-140			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
 - ND Not Detected
 - RL Reporting Limit is at the level of quantitation (LOQ)
 - DL Detection Limit is the lower limit of detection determined by the MDL study
 - MCL Maximum Contaminant Level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- No results have been blank subtracted unless specified in the case narrative section.
- J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - V-04 Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
 - V-05 Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
 - V-06 Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
 - V-20 Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
 - V-34 Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
 - V-35 Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP EPH rev 2.1 in Soil	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
MADEP EPH rev 2.1 in Water	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
SW-846 8260C-D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Water</i>	
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Water	
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2021
ME	State of Maine	MA00100	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False

Statement will be brought to the attention of the Client - State True or False

Client Stone Environmental

Received By [Signature] Date 1/11/21 Time 1440

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 23, 2.7
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times F

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? T MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? T On COC? T

Do all samples have the proper pH? _____ Acid T Base _____

Vials	Containers				
Unp-	1 Liter Amb.	16	1 Liter Plastic		16 oz Amb.
HCL-	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-	Other Glass		Other Plastic		Encore
Thiosulfate-	SOC Kit		Plastic Bag		Frozen:
Sulfuric-	Perchlorate		Ziplock		

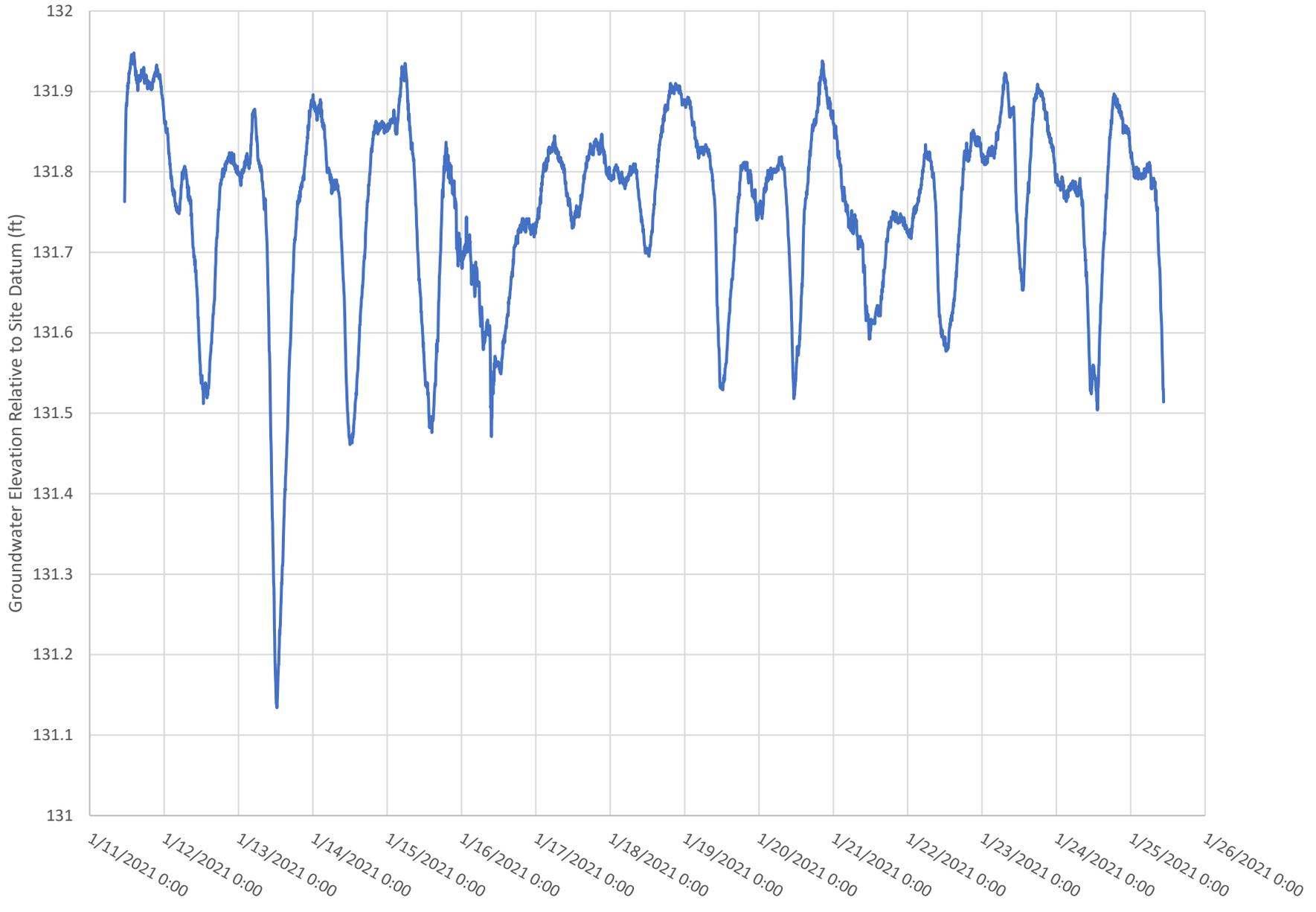
Unused Media

Vials	Containers				
Unp-	1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-	Other Plastic		Other Glass		Encore
Thiosulfate-	SOC Kit		Plastic Bag		Frozen:
Sulfuric-	Perchlorate		Ziplock		

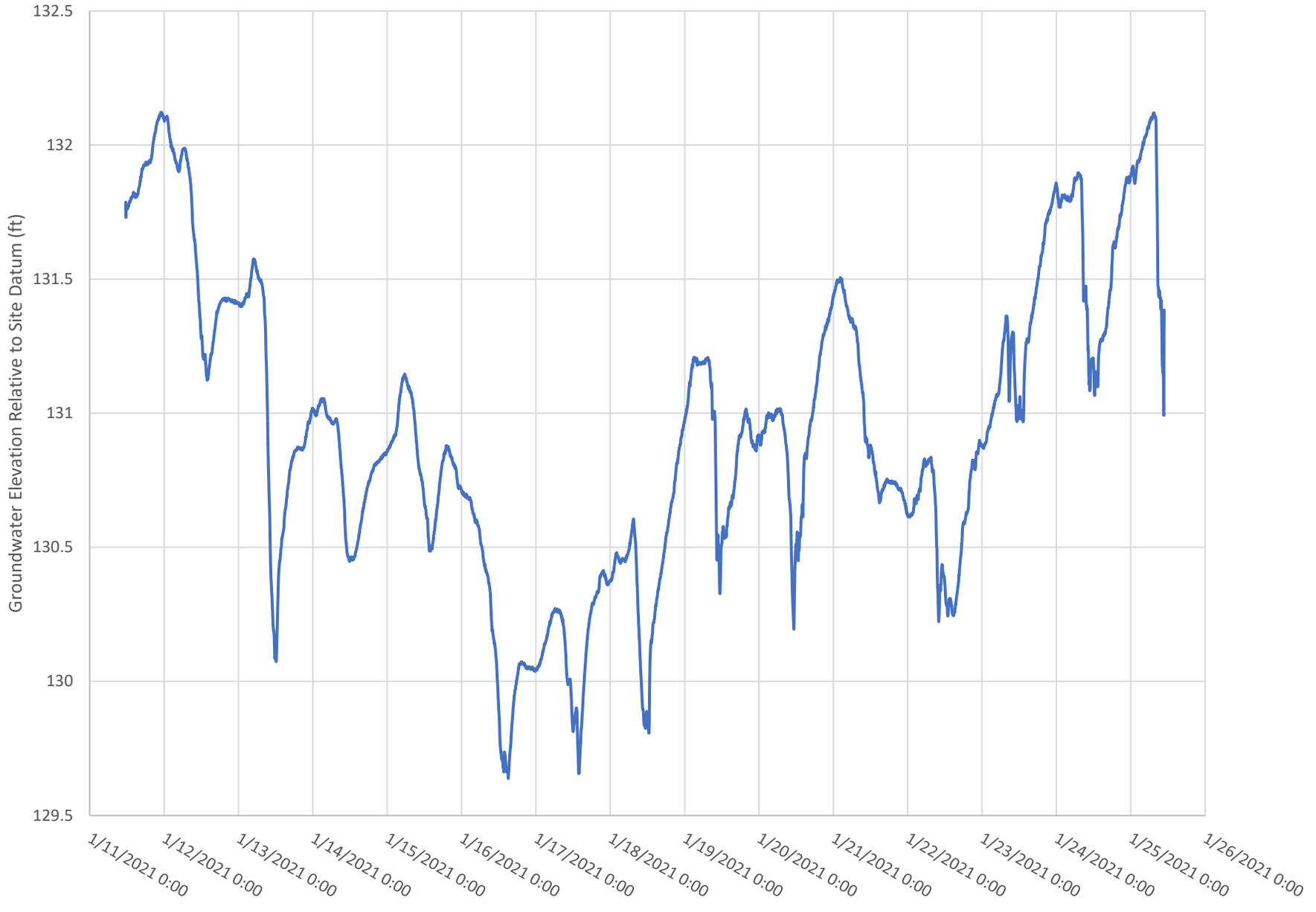
Comments:

Appendix F: Water Level Fluctuation Graphs

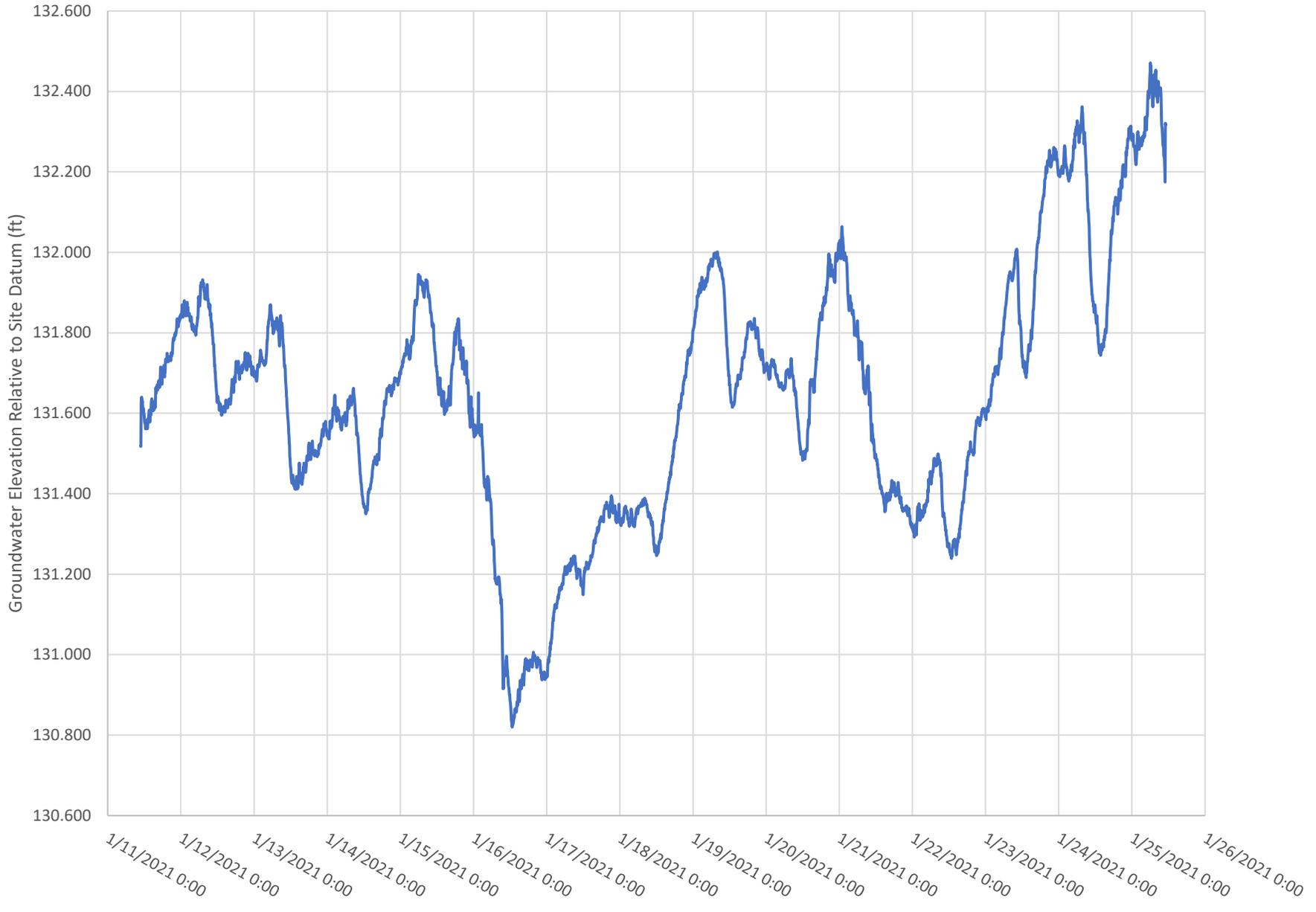
Groundwater Level Fluctuations at IP-01S



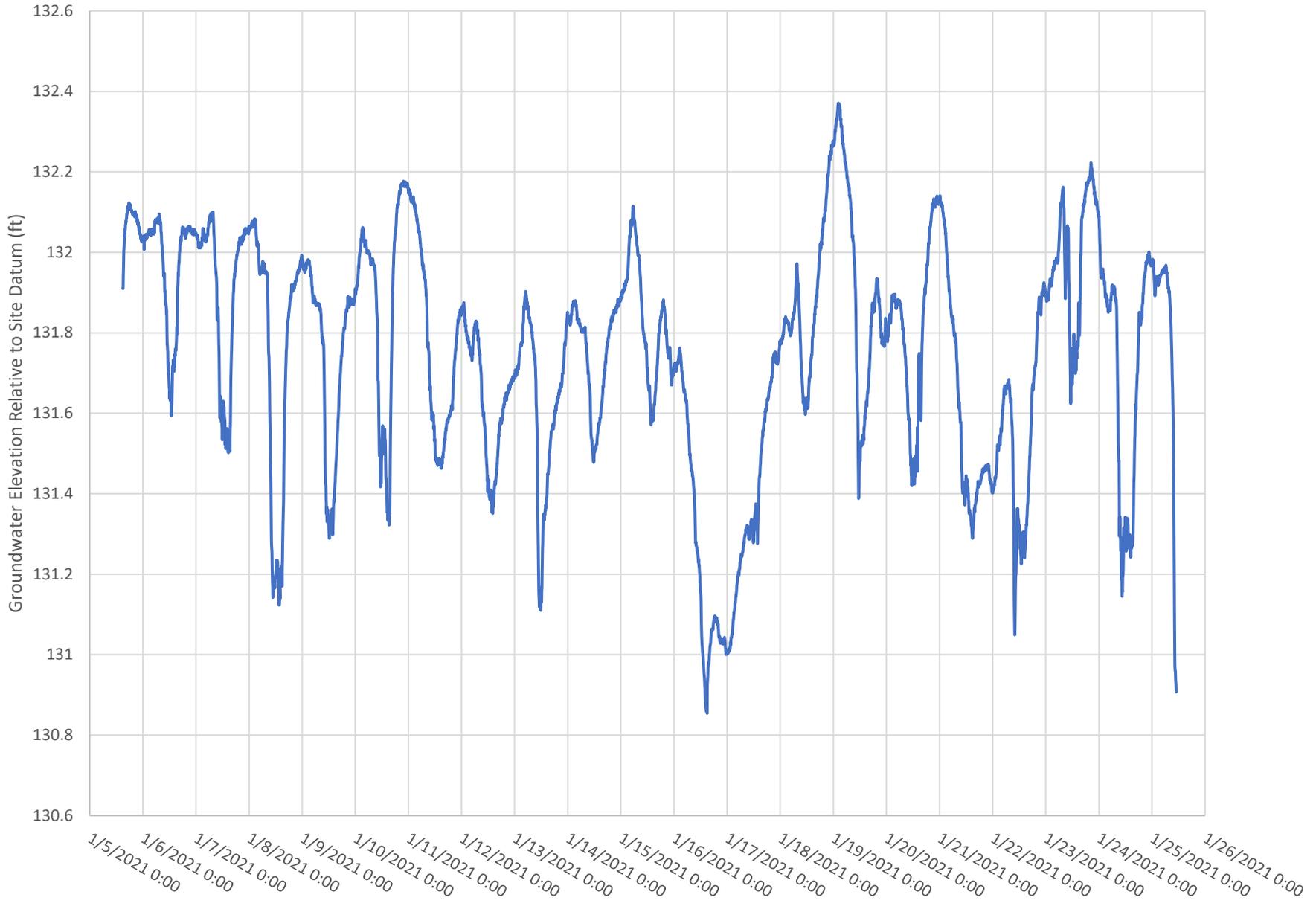
Groundwater Level Fluctuations at IP-01D



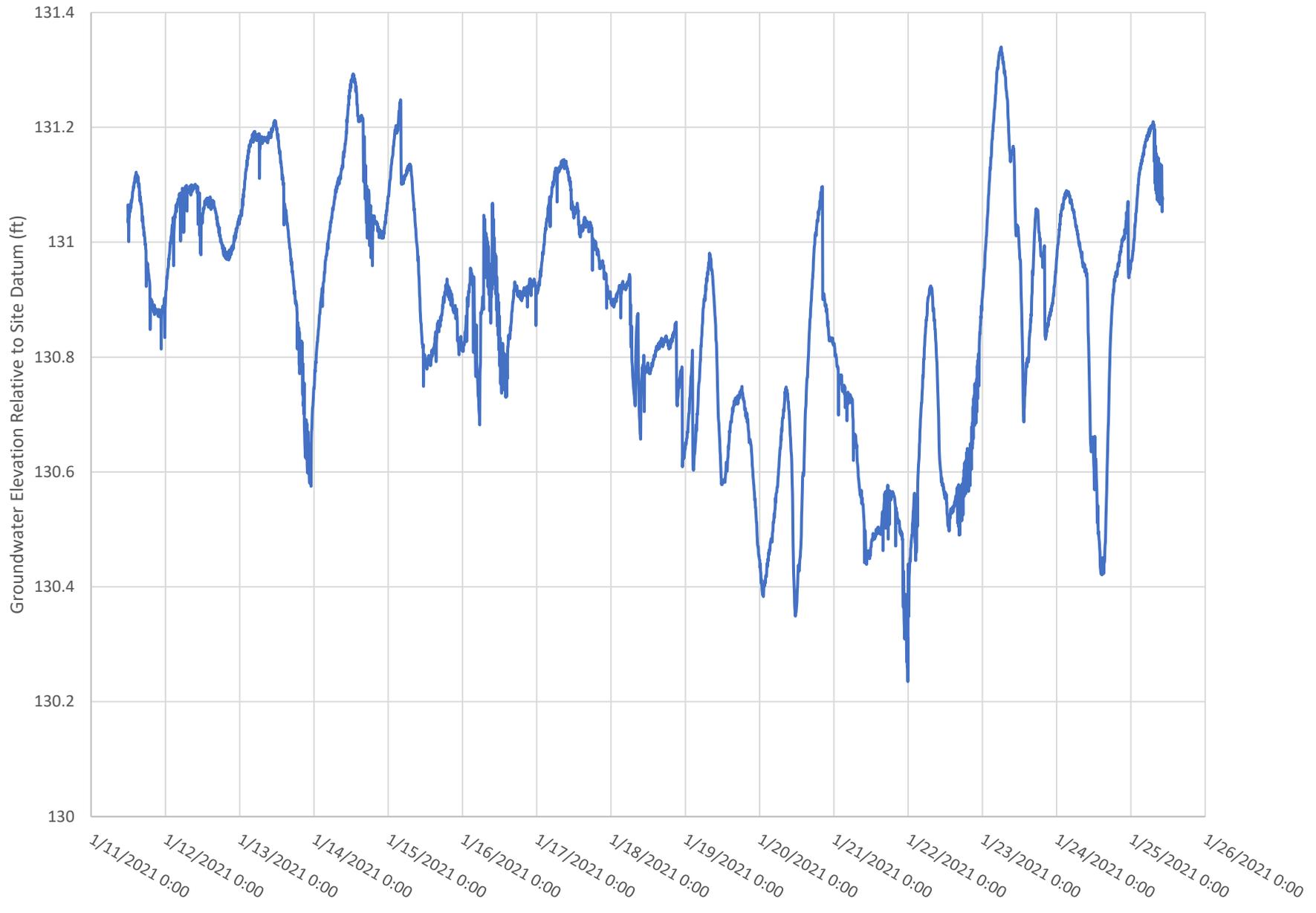
Groundwater Level Fluctuations at IP-03S



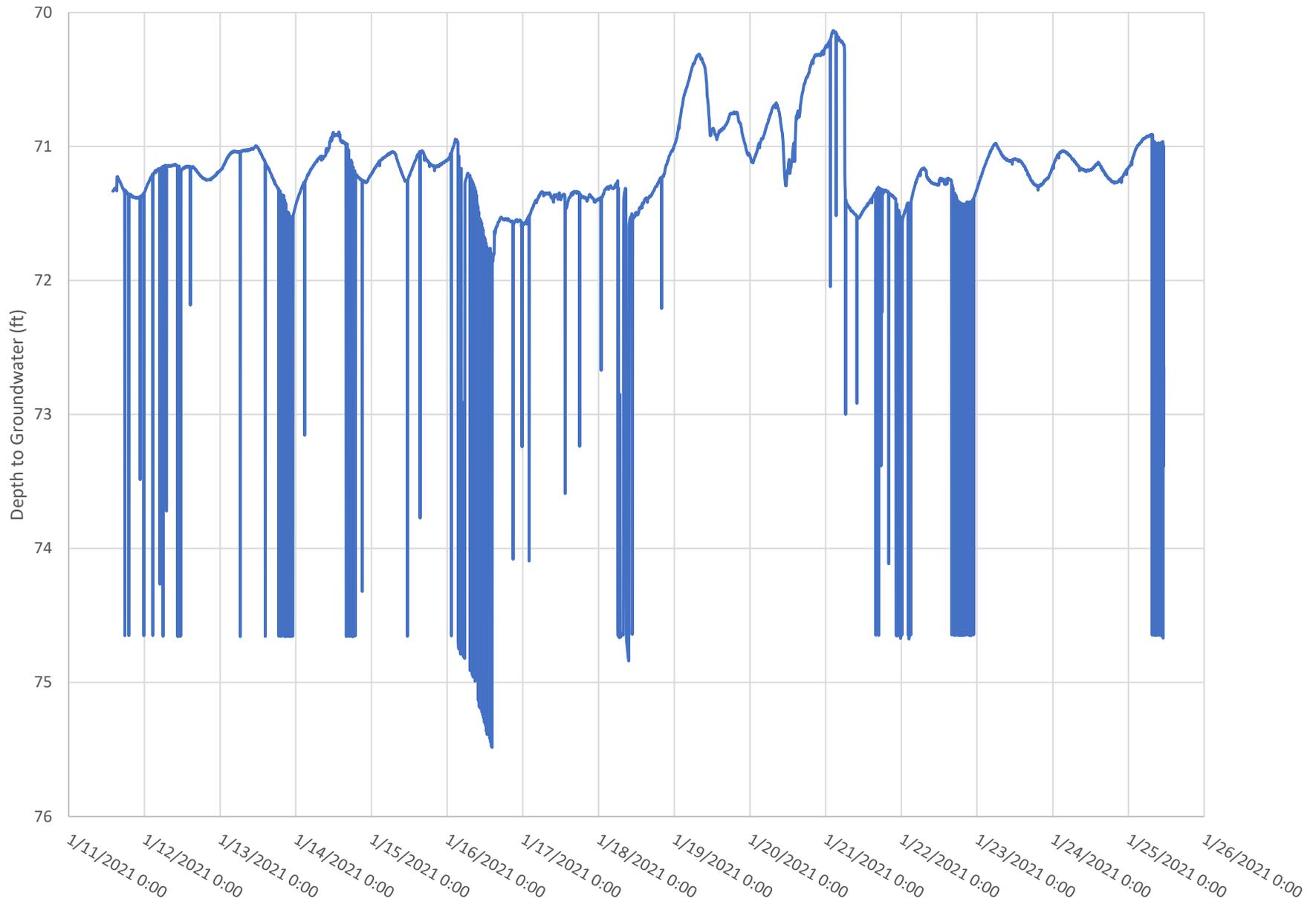
Groundwater Level Fluctuations at IP-03D



Groundwater Level Fluctuations at IP-28



Groundwater Level Fluctuations in the Deep Water Supply Well



Connecticut River Stage

