BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

December 16, 2020

Mr. Todd M. Caffoe, P.E.
Project Manager
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

VIA EMAIL: ToddCaffoe@dec.ny.gov

Re: Former Brainerd Manufacturing Site #V00519-8
115 North Washington Street, East Rochester, NY
Summary of Semi-Annual Groundwater Monitoring

Dear Mr. Caffoe:

The New York State Department of Environmental Conservation (NYSDEC) April 7, 2020 letter required continued annual monitoring of wells MW-5, MW-6, and MW-12. In subsequent emails, NYSDEC agreed to three semi-annual groundwater monitoring events. On behalf of Despatch Industries Inc., Benchmark Environmental Engineering & Science, PLLC (Benchmark) is herein providing a summary of the second of three semi-annual groundwater monitoring events performed at the Site on December 1, 2020.

SAMPLING EVENT

On December 1, 2020, Benchmark collected groundwater samples from former on-site source area wells MW-5 and MW-6 as well as downgradient off-site well MW-12. Water level elevations were measured before sampling to prepare the isopotential map showing groundwater flow direction (see Figure 1). The groundwater samples were sent to Eurofins/ TestAmerica for analysis of Target Compound List (TCL) volatile organic compounds (VOCs).

GROUNDWATER MONITORING RESULTS

Attachment 1 includes the field sampling forms and analytical data. Table 1 provides a comparison of historic, pre-injection, and post-injection groundwater analytical results to NYSDEC Class GA groundwater quality standards and guidance values (GWQS/GVs). Figure 1 shows groundwater flowing in a northwest direction, which is consistent with past monitoring events.

As indicated in Table 1, tetrachloroethene (PCE) was not detected in well MW-5 and was detected at a concentration well below its GWQS (5 ug/L) in well MW-6. The PCE concentrations in well MW-12 (36 ug/L) is consistent with the June 2020 concentration (31

ug/L). Trichloroethene (TCE) was not detected in well MW-5 and was detected at a concentration well below its GWQS (5 ug/L) in MW-6. TCE was detected in well MW-12 at a concentration (5.3 ug/L) slightly above its GWQS. The PCE and TCE results for well MW-12 are consistent with the June 2020 results. Benchmark uploaded the June and December 2020 groundwater data to EQuIS on December 8, 2020.

RECOMMENDATIONS

Benchmark will perform the final round of semi-annual groundwater monitoring in June 2021.

Please contact us if you have any questions or require additional information.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Thomas H. Forbes, P.E.
Principal Engineer

Lori E. Riker, P.E.
Sr. Project Manager

ec: Bernette Schilling (NYSDEC Region 8)
Justin Deming (NYSDOH)
Steven Berninger (NYSDOH)
Alan Shaffer (Despatch)
Amy Shaffer (Despatch)
Wade Lippman
File: 0040-002-400

TABLE

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	MW-1							MW-2			MW-3				MW-4								
									Historic	Current						Historic							Current	
		08/18/06	01/31/12	09/25/13	12/04/13	6/4/14	6/4/15	6/28/16	08/18/06	07/30/19	11/25/19	08/21/06	6/4/14	6/4/15	6/28/16	08/22/06	01/30/12	09/25/13	12/04/13	6/4/2014	6/4/2015	6/28/2016	07/23/19	11/25/19
TCL Volatile Organic Compounds (ug/L)																								
Acetone	**50**	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2	4.5 J	ND	ND
Bromodichloromethane	**5**	ND	ND	ND	ND	0.75	**11**	ND	ND	ND	ND	ND	1.4	1.4	1.2	ND	2.8	2.3	1.3	1.1	ND	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**7**	ND	ND	ND	ND	ND	**23**	ND	0.91 J	1.2	0.59 J	ND	7	6.3	4.7	0.86 J	**11**	**15**	**12**	6.5	1.2	1.3	3.2	6.5
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	**NR**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56 J	ND	ND	ND	ND	ND
Tetrachloroethene	**5**	3.1 J	**53**	**83**	**150**	**70**	**65**	ND	**8.2**	**11**	**10**	ND	2	3.5	2.6	**87**	**11**	**28**	**13**	**22**	**16**	**17**	**27**	**26**
Trichloroethene	**5**	0.78 J	**19**	**15**	**65**	**17**	**30**	0.91 J	**6.3**	2	1.9	**11**	2.5	3.2	3.1	**240**	**90**	**46**	**33**	**37**	**16**	**16**	**42**	**36**
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.74 J	ND	ND	ND	2.6 J	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	3.9	72	98	215	87	95	0.9	15	13	11.9	11	4.5	6.7	5.7	327	101	74	46	59	32	33	69	62

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. MS/MSD collected at PW-1.
3. NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV), 6 NYCRR Part 703.
4. Sum of chlorinated VOCs means adding the concentrations of tetrachloroethene, trichloroethene, cis & trans-1,2-dichlorethene, and 1,1-dichloroethene.
5. Sampling occurred following 1/11/2019 injection of PlumeStop directly into well MW-6 and redevelopment on 2/8/19.

Definitions:

J = Estimated value; result is less than the sample quantitation limit but greater than zero.
ND = parameter not detected above laboratory detection limit.
NR = parameter not regulated by 6NYCRR TOGS 1.1.1 Part 703
NA = not available; parameter not included on tabulated summary provided by NYSDEC.
N* = Indicates the spike or duplicate analysis is not within the quality control limits
"--" = Not analyzed

BOLD = Analytical result exceeds individual GWQS/GV; or potentially exceeds if the MDL is above the GWQS/GV.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	MW-5																	
		Historic Groundwater Sampling Events									Pre-Injection	Post-Injection							
		08/22/06	01/30/12	03/05/13	06/26/13	9/25/13	12/04/13	06/04/14	06/04/15	06/28/16	07/10/17	11/30/17	02/27/18	06/04/18	07/23/19	11/25/19	12/11/19	06/11/20	12/01/20
TCL Volatile Organic Compounds (ug/L)																			
Acetone	**50**	ND	ND	ND	ND	ND	3.4 J	3.3 J	ND	ND	7.3 J	**200**	**200**	**63 J**	ND	ND	6.8 J	6.9 J	ND
Bromodichloromethane	**5**	ND	ND	0.51 J	ND	ND	ND	ND	ND	0.54 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**71 J**	**320**	45 J	ND	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND	ND
Chloroform	**7**	1.4 J	1.3	**18**	ND	ND	ND	ND	ND	0.98 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	**NR**	ND	ND	ND	ND	ND	ND	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND	0.51 J	0.71 J	ND	ND	ND	ND < 5.1	ND < 5.1	*ND < 5.1*	ND	ND	ND	ND	ND
Tetrachloroethene	**5**	**1,600**	**2,800**	**590**	**400**	**150**	**110**	**50**	**40**	**530 D**	**14**	ND	ND	ND	ND	**45**	ND	0.41 J	ND
Trichloroethene	**5**	**1,400**	**1,500**	**260**	**240**	**59**	**52**	**23**	**20**	**330 D**	**8.5**	ND	ND	ND	ND	**44**	ND	0.56 J	ND
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	0.56 J	0.67 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichlorethene	**5**	0.80 J	0.95 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 9.0*	*ND < 9.0*	*ND < 9.0*	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	**5**	**11**	**6.3 J**	1.3	ND	ND	ND	ND	ND	1.5	ND	*ND < 8.2*	*ND < 8.2*	*ND < 8.2*	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	**1**	**1.5 J**	ND	ND	ND	ND	ND	ND	ND	0.57 J	ND	*ND < 2.3*	*ND < 2.3*	*ND < 2.3*	ND	ND	ND	ND	ND
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	3,000	4,302	850	640	209	162	73	60	860	23	0	0	0	0	89	0	0.97	0

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. MS/MSD collected at PW-1.
3. NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV), 6 NYCRR Part 703.
4. Sum of chlorinated VOCs means adding the concentrations of tetrachloroethene, trichloroethene, cis & trans-1,2-dichlorethene, and 1,1-dichloroethene.
5. Sampling occurred following 1/11/2019 injection of PlumeStop directly into well MW-6 and redevelopment on 2/8/19.

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BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	MW-6																				
		Historic Groundwater Sampling Events											Pre-Injection	Post-Injection								
		08/22/06	01/30/12	Blind Dup 1-30-12	03/05/13	06/26/13	09/25/13	12/04/13	06/04/14	Blind Dup 6-4-14	06/04/15	06/28/16	07/10/17	11/30/17	02/27/18	06/04/18	08/08/18	10/29/18	2/22/19 [5]	07/23/19	11/25/19	06/11/20	12/01/20
TCL Volatile Organic Compounds (ug/L)																						
Acetone	**50**	ND	ND	ND	ND	ND	ND	5.0 J	ND	ND	ND	ND	ND	*ND < 150*	49	12 J	ND	ND	ND	ND	ND	5.4 J	ND
Bromodichloromethane	**5**	ND	4.4	4.6	0.47 J	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 20*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	***ND < 120***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 66*	8.7 J	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**7**	ND	**14**	**14**	2	ND	ND	0.51 J	ND	ND	ND	ND	ND	*ND < 17*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 16*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	ND	**87**	**70**	ND	ND	ND	*ND < 22*	ND	ND	3.8 J	3.8 J	3.4 J	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	**NR**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**5**	3.2 J	0.95 J	1	ND	ND	ND	1.6	ND	ND	ND	ND	ND	*ND < 26*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**5**	**3,100**	**1,700**	**1,700**	**410**	**1,600**	**1,300**	**1,600**	**1,500**	**1,500**	**570**	**1,200**	**390**	**90**	3.5 J	**120**	**290**	**170**	*ND<1.4*	0.45 J	ND	0.43 J	0.97 J
Trichloroethene	**5**	**1,500**	**660**	**650**	**95**	**520**	**450**	**570**	**560**	**520**	**130**	**340**	**110**	**51**	4.9	**88**	**130**	**140**	*ND<1.8*	0.66 J	ND	ND	0.8 J
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 44*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 15*	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichlorethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 41*	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 45*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	**5**	**16 J**	4	3.8	ND	ND	ND	3.8	ND	ND	ND	ND	ND	*ND < 41*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 12*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 19*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	4,600	2,360	2,350	505	2,120	1,750	2,170	2,060	2,020	700	1,540	500	141	8.4	208	420	310	0	1.1	0.0	0.43	1.8

Notes:

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2. MS/MSD collected at PW-1.
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4. Sum of chlorinated VOCs means adding the concentrations of tetrachloroethene, trichloroethene, cis & trans-1,2-dichlorethene, and 1,1-dichloroethene.
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BOLD = Analytical result exceeds individual GWQS/GV; or potentially exceeds if the MDL is above the GWQS/GV.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	MW-7	MW-8	MW-9												MW-10	MW-11	MW-12				
				Historic											Current			Historic		Current		
		8/21/06	8/21/06	8/21/06	Blind Dup 8-21-06	9/12/07	1/31/12	6/26/13	9/25/13	12/4/13	6/4/14	6/4/15	6/28/16	7/23/19	11/25/19	8/21/06	03/10/08	03/10/08	7/23/19	11/25/19	6/11/20	12/1/2020
TCL Volatile Organic Compounds (ug/L)																						
Acetone	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 J	4.8 J	ND	ND	5.1	ND
Bromodichloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.82 J	ND	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	0.94 J	ND	ND	ND	ND
Chloroform	**7**	ND	ND	2 J	2.1 J	0.9 J	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND	1.7	1.6	ND	ND	ND	ND
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**90**	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Methyl Acetate	**NR**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Tetrachloroethene	**5**	ND	**13**	**3,100**	**2,800**	**2,600**	**390**	**870**	**900**	**1,000**	**1,300**	**920**	**300**	**33**	**51**	**17**	ND	**300 D**	**71**	**68**	**31**	**36**
Trichloroethene	**5**	**6.0**	**20**	**2,700**	**2,500**	**1,900**	**230**	**400**	**590**	**780**	**810**	**570**	**100**	4.7	**38**	**15**	ND	**270 D**	**14**	**12**	4.2	**5.3**
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**11**	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	ND	ND	3.5 J	3.9 J	1.3	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichlorethene	**5**	ND	ND	3.2 J	3.2 J	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66 J	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND
1,1,1-Trichloroethane	**5**	ND	ND	**34**	**36**	**12**	1.6	ND	ND	4.6	ND	ND	ND	ND	ND	0.60 J	ND	2.0	ND	ND	ND	ND
1,1,2-Trichloroethane	**1**	ND	ND	**3.8 J**	**3.7 J**	**1.9**	0.5 J	ND	ND	0.74 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	**5**	ND	ND	0.62 J	0.57 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	6.0	33	5,800	5,300	4,503	620	1,270	1,490	1,780	2,110	1,490	400	38	89	32	0	571	85	80	35	41

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. MS/MSD collected at PW-1.
3. NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV), 6 NYCRR Part 703.
4. Sum of chlorinated VOCs means adding the concentrations of tetrachloroethene, trichloroethene, cis & trans-1,2-dichlorethene, and 1,1-dichloroethene.
5. Sampling occurred following 1/11/2019 injection of PlumeStop directly into well MW-6 and redevelopment on 2/8/19.

Definitions:

J = Estimated value; result is less than the sample quantitation limit but greater than zero.
ND = parameter not detected above laboratory detection limit.
NR = parameter not regulated by 6NYCRR TOGS 1.1.1 Part 703
NA = not available; parameter not included on tabulated summary provided by NYSDEC.
N* = Indicates the spike or duplicate analysis is not within the quality control limits
"--" = Not analyzed

BOLD = Analytical result exceeds individual GWQS/GV; or potentially exceeds if the MDL is above the GWQS/GV.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	PW-1[2]	PW-1R										PW-2				OW-1	OW-2
			Historic Groundwater Sampling Events				Pre-Injection	Post-Injection										
		8/22/06	1/30/12	6/4/14	6/4/15	6/28/16	07/10/17	11/30/17	02/27/18	06/04/18	07/23/19	12/11/19	1/30/12	6/4/14	6/4/15	6/28/16	8-22-06	8-22-06
TCL Volatile Organic Compounds (ug/L)																		
Acetone	**50**	ND	ND	ND	13	6.9 J	ND	30 J	6.0 J	8.2 J	ND	ND	8.1 J	0.46 J	12 J	8.7 J	ND	ND
Bromodichloromethane	**5**	ND	ND	1.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	**160**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**7**	0.55 J	1.1	1.3 J	0.72 J	ND	ND	ND	0.44 J	ND	ND	ND	2.3	2.2	1.3	0.96 J	0.58 J	ND
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	**12**	ND	ND	ND	2.4 J	ND	ND	ND	ND	0.56 J	ND	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	0.43 J	0.23 J	ND	ND
Methyl Acetate	**NR**	ND	ND	3.5 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND
Toluene	**5**	1.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	0.52	0.55 J	ND	ND
Tetrachloroethene	**5**	**780**	**360**	**92**	**160**	**120**	**100**	ND	0.74 J	2.9	**6.7**	**10**	1.3	**20**	**18**	**11**	**570**	0.82 J
Trichloroethene	**5**	**540**	**220**	**75**	**94**	**71**	**70**	ND	4.7	**13**	**18**	**22**	3.3	**25**	**16**	**12**	**470**	**320**
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND
cis-1,2-Dichlorethene	**5**	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	0.86 J	ND	ND	0.65 J	4 J
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J
1,1,1-Trichloroethane	**5**	3.6 J	0.96 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.4**	ND
1,1,2-Trichloroethane	**1**	0.51 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	1,320	580	167	254	191	170	0	5.4	16	27	32	4.6	46	34	23	1,040	321

Notes:

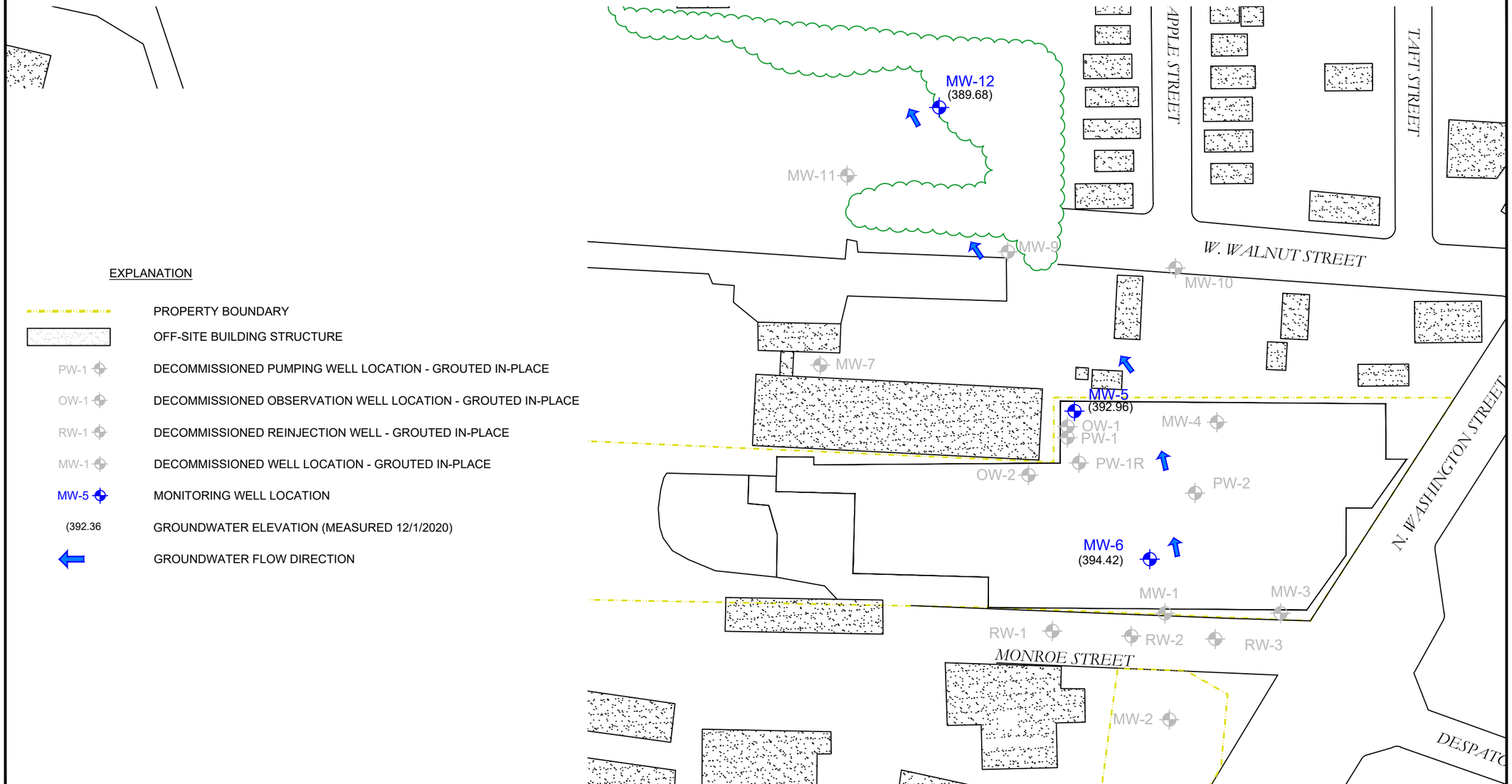
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. MS/MSD collected at PW-1.
3. NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV), 6 NYCRR Part 703.
4. Sum of chlorinated VOCs means adding the concentrations of tetrachloroethene, trichloroethene, cis & trans-1,2-dichlorethene, and 1,1-dichloroethene.
5. Sampling occurred following 1/11/2019 injection of PlumeStop directly into well MW-6 and redevelopment on 2/8/19.

Definitions:

J = Estimated value; result is less than the sample quantitation limit but greater than zero.
ND = parameter not detected above laboratory detection limit.
NR = parameter not regulated by 6NYCRR TOGS 1.1.1 Part 703
NA = not available; parameter not included on tabulated summary provided by NYSDEC.
N* = Indicates the spike or duplicate analysis is not within the quality control limits
"--" = Not analyzed

BOLD = Analytical result exceeds individual GWQS/GV; or potentially exceeds if the MDL is above the GWQS/GV.

FIGURE



EXPLANATION

- PROPERTY BOUNDARY
- OFF-SITE BUILDING STRUCTURE
- PW-1 — DECOMMISSIONED PUMPING WELL LOCATION - GROUTED IN-PLACE
- OW-1 — DECOMMISSIONED OBSERVATION WELL LOCATION - GROUTED IN-PLACE
- RW-1 — DECOMMISSIONED REINJECTION WELL - GROUTED IN-PLACE
- MW-1 — DECOMMISSIONED WELL LOCATION - GROUTED IN-PLACE
- MW-5 — MONITORING WELL LOCATION
- (392.36 — GROUNDWATER ELEVATION (MEASURED 12/1/2020)
- GROUNDWATER FLOW DIRECTION

N

100' 0' 100' 200'

SCALE: 1 INCH = 100 FEET
SCALE IN FEET
(approximate)

DATE: DECEMBER 2020
DRAFTED BY: CCB/RFL/CMC

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

JOB NO.: 0040-002-400

SITE PLAN

DECEMBER 2020 SUMMARY
FORMER BRAINERD MANUFACTURING FACILITY
EAST ROCHESTER, NEW YORK
NYSDEC SITE NO. V00519-8
PREPARED FOR
DESPATCH INDUSTRIES, INC.

FIGURE 1

ATTACHMENT 1

GW FIELD FORMS AND ANALYTICAL DATA PACKAGE

BENCHMARK

GROUNDWATER FIELD FORM

Project Name: D2SPatch
Location: Project No.: Date: 12/1/20
Field Team: NHS

Well No. MW-6			Diameter (inches): 2"			Sample Date / Time: 12/1/20 10:00			
Product Depth (fbTOR):			Water Column (ft): 8.5			DTW when sampled:			
DTW (static) (fbTOR): 22.5			One Well Volume (gal): 1.38			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 31.0			Total Volume Purged (gal):			Purge Method: Bailer			

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
9:45	0	Initial	0	5.12	12.7	4847	110	—	266	Clear No o
9:55	1	23.0	1.3	6.13	14	4677	178	—	176	Black No o
9:57	2	23.3	2.4	6.49	14.2	4782	244	—	141	
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
10:00	S1	25.4	3.4	6.75	13.7	4709	297	—	155	Black No Odor
	S2									

Well No. MW-5			Diameter (inches): 2"			Sample Date / Time: 12/1/20 11:00			
Product Depth (fbTOR):			Water Column (ft): 6			DTW when sampled:			
DTW (static) (fbTOR): 23.5			One Well Volume (gal): 0.978			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 29.5			Total Volume Purged (gal): 3			Purge Method: Bailer			

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:20	0	Initial	0	6.42	14.1	2603	67.1	—	-64	Clear, Sulfur Odor
10:30	1	25.0	1	7.04	14.5	2709	283	—	-123	Black, Odor
10:40	2	25.2	2	7.18	14.5	2735	352	—	-133	Black Odor
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
11:00	S1	25.3	3	7.13	14.5	2720	301	—	-130	Black, Sulfur Odor
	S2									

REMARKS: DO Peteco Broken

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: DLS Patch

Date:

Location:

Project No.:

Field Team:

Well No. MW-12	Diameter (inches): 2"	Sample Date / Time: 12/1/20 12:00
Product Depth (fbTOR):	Water Column (ft): 5.8	DTW when sampled:
DTW (static) (fbTOR): 25.5	One Well Volume (gal): .94	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 31.3	Total Volume Purged (gal): 3	Purge Method: Bailer

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:25	0	Initial	0	7.96	11.1	HP	20.4	—	-24	Clear brown
11:35	1	27.8	1	7.15	11.4	493	30.1	—	-1	
11:45	2	28.0	2	7.14	11.4	983	53.1	—	5	
	3					992				
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
12:00	S1	28.5	3	7.21	11	508	47.6	—	23	Clear no odor
	S2									

Well No.	Diameter (inches):	Sample Date / Time:
Product Depth (fbTOR):	Water Column (ft):	DTW when sampled:
DTW (static) (fbTOR):	One Well Volume (gal):	Purpose: ☐ Development ☐ Sample ☐ Purge & Sample
Total Depth (fbTOR):	Total Volume Purged (gal):	Purge Method:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0	Initial								
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
	S1									
	S2									

REMARKS: DO Broken

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-178885-1
Client Project/Site: Benchmark - Despatch site

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Ms. Lori E. Riker

Authorized for release by:
12/8/2020 9:20:38 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Job ID: 480-178885-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-178885-1

Comments
No additional comments.

Receipt
The samples were received on 12/2/2020 10:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-561827 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-6 (480-178885-1), MW-5 (480-178885-2) and MW-12 (480-178885-3).

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Client Sample ID: MW-6 — Lab Sample ID: 480-178885-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.97	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.80	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 480-178885-2

No Detections.

Client Sample ID: MW-12 — Lab Sample ID: 480-178885-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	36		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	5.3		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-6
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/20 01:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/20 01:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/20 01:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/20 01:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/20 01:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/20 01:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/20 01:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/20 01:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/20 01:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/20 01:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/20 01:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/20 01:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/20 01:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/20 01:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/20 01:02	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/20 01:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/20 01:02	1
Acetone	ND		10	3.0	ug/L			12/04/20 01:02	1
Benzene	ND		1.0	0.41	ug/L			12/04/20 01:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/20 01:02	1
Bromoform	ND		1.0	0.26	ug/L			12/04/20 01:02	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/20 01:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/20 01:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/20 01:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/20 01:02	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/20 01:02	1
Chloroform	ND		1.0	0.34	ug/L			12/04/20 01:02	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/20 01:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/04/20 01:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/20 01:02	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/20 01:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/20 01:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/20 01:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/20 01:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/20 01:02	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/20 01:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/20 01:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/20 01:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/20 01:02	1
Styrene	ND		1.0	0.73	ug/L			12/04/20 01:02	1
Tetrachloroethene	**0.97**	**J**	1.0	0.36	ug/L			12/04/20 01:02	1
Toluene	ND		1.0	0.51	ug/L			12/04/20 01:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/20 01:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/20 01:02	1
Trichloroethene	**0.80**	**J**	1.0	0.46	ug/L			12/04/20 01:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/20 01:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/20 01:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/20 01:02	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-6
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		12/04/20 01:02	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/04/20 01:02	1
Dibromofluoromethane (Surr)	105		75 - 123		12/04/20 01:02	1
Toluene-d8 (Surr)	99		80 - 120		12/04/20 01:02	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-5
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/20 01:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/20 01:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/20 01:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/20 01:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/20 01:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/20 01:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/20 01:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/20 01:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/20 01:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/20 01:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/20 01:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/20 01:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/20 01:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/20 01:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/20 01:27	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/20 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/20 01:27	1
Acetone	ND		10	3.0	ug/L			12/04/20 01:27	1
Benzene	ND		1.0	0.41	ug/L			12/04/20 01:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/20 01:27	1
Bromoform	ND		1.0	0.26	ug/L			12/04/20 01:27	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/20 01:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/20 01:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/20 01:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/20 01:27	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/20 01:27	1
Chloroform	ND		1.0	0.34	ug/L			12/04/20 01:27	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/20 01:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/04/20 01:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/20 01:27	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/20 01:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/20 01:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/20 01:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/20 01:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/20 01:27	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/20 01:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/20 01:27	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/20 01:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/20 01:27	1
Styrene	ND		1.0	0.73	ug/L			12/04/20 01:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/04/20 01:27	1
Toluene	ND		1.0	0.51	ug/L			12/04/20 01:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/20 01:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/20 01:27	1
Trichloroethene	ND		1.0	0.46	ug/L			12/04/20 01:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/20 01:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/20 01:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/20 01:27	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-5
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/04/20 01:27	1
4-Bromofluorobenzene (Surr)	96		73 - 120		12/04/20 01:27	1
Dibromofluoromethane (Surr)	103		75 - 123		12/04/20 01:27	1
Toluene-d8 (Surr)	98		80 - 120		12/04/20 01:27	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-12
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/20 01:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/20 01:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/20 01:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/20 01:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/20 01:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/20 01:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/20 01:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/20 01:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/20 01:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/20 01:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/20 01:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/20 01:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/20 01:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/20 01:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/20 01:52	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/20 01:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/20 01:52	1
Acetone	ND		10	3.0	ug/L			12/04/20 01:52	1
Benzene	ND		1.0	0.41	ug/L			12/04/20 01:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/20 01:52	1
Bromoform	ND		1.0	0.26	ug/L			12/04/20 01:52	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/20 01:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/20 01:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/20 01:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/20 01:52	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/20 01:52	1
Chloroform	ND		1.0	0.34	ug/L			12/04/20 01:52	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/20 01:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/04/20 01:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/20 01:52	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/20 01:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/20 01:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/20 01:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/20 01:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/20 01:52	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/20 01:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/20 01:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/20 01:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/20 01:52	1
Styrene	ND		1.0	0.73	ug/L			12/04/20 01:52	1
Tetrachloroethene	**36**		1.0	0.36	ug/L			12/04/20 01:52	1
Toluene	ND		1.0	0.51	ug/L			12/04/20 01:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/20 01:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/20 01:52	1
Trichloroethene	**5.3**		1.0	0.46	ug/L			12/04/20 01:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/20 01:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/20 01:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/20 01:52	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-12
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		12/04/20 01:52	1
4-Bromofluorobenzene (Surr)	97		73 - 120		12/04/20 01:52	1
Dibromofluoromethane (Surr)	105		75 - 123		12/04/20 01:52	1
Toluene-d8 (Surr)	96		80 - 120		12/04/20 01:52	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-178885-1	MW-6	108	102	105	99
480-178885-2	MW-5	105	96	103	98
480-178885-3	MW-12	107	97	105	96
LCS 480-561827/5	Lab Control Sample	105	101	101	98
MB 480-561827/7	Method Blank	106	97	102	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-561827/7
Matrix: Water
Analysis Batch: 561827

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/03/20 22:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/20 22:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/20 22:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/20 22:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/20 22:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/20 22:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/20 22:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/20 22:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/20 22:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/20 22:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/20 22:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/20 22:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/20 22:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/20 22:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/20 22:56	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/20 22:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/20 22:56	1
Acetone	ND		10	3.0	ug/L			12/03/20 22:56	1
Benzene	ND		1.0	0.41	ug/L			12/03/20 22:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/20 22:56	1
Bromoform	ND		1.0	0.26	ug/L			12/03/20 22:56	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/20 22:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/20 22:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/20 22:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/20 22:56	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/20 22:56	1
Chloroform	ND		1.0	0.34	ug/L			12/03/20 22:56	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/20 22:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/20 22:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/20 22:56	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/20 22:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/20 22:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/20 22:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/20 22:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/20 22:56	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/20 22:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/20 22:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/20 22:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/20 22:56	1
Styrene	ND		1.0	0.73	ug/L			12/03/20 22:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/20 22:56	1
Toluene	ND		1.0	0.51	ug/L			12/03/20 22:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/20 22:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/20 22:56	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/20 22:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/20 22:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/20 22:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/20 22:56	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-561827/7
Matrix: Water
Analysis Batch: 561827

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		12/03/20 22:56	1
4-Bromofluorobenzene (Surr)	97		73 - 120		12/03/20 22:56	1
Dibromofluoromethane (Surr)	102		75 - 123		12/03/20 22:56	1
Toluene-d8 (Surr)	95		80 - 120		12/03/20 22:56	1

Lab Sample ID: LCS 480-561827/5
Matrix: Water
Analysis Batch: 561827

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.1		ug/L		84	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.0		ug/L		112	61 - 148
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	25.9		ug/L		103	66 - 127
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.5		ug/L		82	56 - 134
1,2-Dibromoethane	25.0	24.1		ug/L		96	77 - 120
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	25.7		ug/L		103	75 - 120
1,2-Dichloropropane	25.0	25.0		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2-Butanone (MEK)	125	118		ug/L		95	57 - 140
2-Hexanone	125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	117		ug/L		93	56 - 142
Benzene	25.0	24.9		ug/L		100	71 - 124
Bromodichloromethane	25.0	26.3		ug/L		105	80 - 122
Bromoform	25.0	22.2		ug/L		89	61 - 132
Bromomethane	25.0	22.8		ug/L		91	55 - 144
Carbon disulfide	25.0	25.7		ug/L		103	59 - 134
Carbon tetrachloride	25.0	26.3		ug/L		105	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120
Chloroethane	25.0	23.1		ug/L		93	69 - 136
Chloroform	25.0	24.1		ug/L		96	73 - 127
Chloromethane	25.0	20.2		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	74 - 124
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	74 - 124
Cyclohexane	25.0	26.6		ug/L		106	59 - 135
Dibromochloromethane	25.0	25.7		ug/L		103	75 - 125
Dichlorodifluoromethane	25.0	26.3		ug/L		105	59 - 135
Ethylbenzene	25.0	25.4		ug/L		101	77 - 123
Isopropylbenzene	25.0	26.0		ug/L		104	77 - 122
Methyl acetate	50.0	43.8		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	25.9		ug/L		104	77 - 120
Methylcyclohexane	25.0	25.9		ug/L		104	68 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-561827/5
Matrix: Water
Analysis Batch: 561827

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			25.0	24.7		ug/L		99	75 - 124		
Styrene			25.0	27.0		ug/L		108	80 - 120		
Tetrachloroethene			25.0	25.6		ug/L		102	74 - 122		
Toluene			25.0	24.7		ug/L		99	80 - 122		
trans-1,2-Dichloroethene			25.0	25.4		ug/L		102	73 - 127		
trans-1,3-Dichloropropene			25.0	23.4		ug/L		94	80 - 120		
Trichloroethene			25.0	25.4		ug/L		101	74 - 123		
Trichlorofluoromethane			25.0	25.7		ug/L		103	62 - 150		
Vinyl chloride			25.0	20.8		ug/L		83	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

GC/MS VOA

Analysis Batch: 561827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178885-1	MW-6	Total/NA	Water	8260C	
480-178885-2	MW-5	Total/NA	Water	8260C	
480-178885-3	MW-12	Total/NA	Water	8260C	
MB 480-561827/7	Method Blank	Total/NA	Water	8260C	
LCS 480-561827/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-6

Lab Sample ID: 480-178885-1

Date Collected: 12/01/20 00:00
Matrix: Water
Date Received: 12/02/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561827	12/04/20 01:02	CRL	TAL BUF

Client Sample ID: MW-5

Lab Sample ID: 480-178885-2

Date Collected: 12/01/20 00:00
Matrix: Water
Date Received: 12/02/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561827	12/04/20 01:27	CRL	TAL BUF

Client Sample ID: MW-12

Lab Sample ID: 480-178885-3

Date Collected: 12/01/20 00:00
Matrix: Water
Date Received: 12/02/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561827	12/04/20 01:52	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-178885-1	MW-6	Water	12/01/20 00:00	12/02/20 10:20	
480-178885-2	MW-5	Water	12/01/20 00:00	12/02/20 10:20	
480-178885-3	MW-12	Water	12/01/20 00:00	12/02/20 10:20	

Chain of Custody Record

Client Information	Sampler: Nick Suraci	Lab PM: Brian Fischer	Carrier Tracking No(s):	COC No:
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail:	State of Origin:	Page:
Company: Benchmark Environmental Engineering		Accreditations Required (See note):		Job #:
Address: 2558 Hamburg Tpke #	Due Date Requested:			
City: Buffalo NY 14218	TAT Requested (days): Standard			
State, Zip:				
Phone: 716-713-3937	PO #: B0040-002-400			
Email: LRiker@BM-Tlc.com	WO #:			
Project Name: Despatch	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCL VOC's	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-6	12/1/20	10:00	6	W			X		
MW-5	↓	11:00	6	W			X		
MW-12	↓	12:00	6	W			X		

480-178885 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Cat B, HASP, Level 4	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/2/20 10:20	BMTL			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/2/20 1020	Company TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1 #1

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-178885-1

Login Number: 178885

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	