BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

July 29, 2010

Ms. Charlotte Theobald
NY State Department of Envitonmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-9519

Re: Site No. C849004
Seneca Market I, LLC Site
Watkins Glen, New York
May 2010 Groundwater Monitoring Report

Dear Ms. Theobald:

On behalf of our client, Seneca Market I, LLC (Seneca Market), Benchmark Environmental Engineering & Science, PLLC (Benchmark) is herein transmitting the tesults from the May 2010 groundwater monitoring event at the Seneca Market Site in Watkins Glen, New York (Site; see Figure 1).

This groundwater monitoring events included sampling and analysis of MW-1SR, MW-3SR, MW-7S and MW-10S, MW-21s. Groundwater gauging of MW-4S and MW-9S was also completed. Groundwater samples from each of the sampled wells were analyzed for target compound list (TCL) volatile organic compounds (VOCs). Field parameters including pH, oxidation-reduction potential (ORP), dissolved oxygen (DO), temperature, turbidity, and specific conductance were also measured in each of the sampled monitoring wells. Table 1 summarizes the analytical and field results ftom the May 2010 groundwater monitoring event as well as historic groundwater monitoring events completed by Benchmark and the NYSDEC. The laboratory analytical package for the May 2010 groundwater monitoring event is included in Attachment 1.

As shown on Table 1, chlorinated VOCs were not detected above NYSDEC Class GA groundwater quality standards (GWQS) as listed in NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) in MW-3SR, MW-7S, MW-10S or MW-21S. It is noteworthy that MW-3SR is located in the area of VOC source soil removal by Seneca Market and has decreased from 6,203 micrograms per liter (ug/L) total chlorinated VOCs in June 2000 to no detections of chlorinated VOCs in May 2010.

As noted in previous sampling events, concentrations of petroleum VOCs in MW-7S and MtBE in MW-3SR, MW-1SR may be the result of on-Site migration of petroleum VOCs from the adjacent and up-gradient NYSDEC petroleum spill site (Spill No. 0651369) located at the corner of North Franklin Street and Division Street. We understand that environmental investigation and/or remediation is on-going at that site.

Groundwater elevations in MW-1SR, MW-3SR, MW-7S, MW-10S, MW-4S and MW-9S were recorded. Table 2 shows the relative groundwater elevations and Figure 1 includes estimated

groundwater flow direction for the May 2010 event. The groundwater flow is generally consistent with historic groundwater gauging data.

Future groundwater sampling at the Site will be in accordance with your letter dated June 9, 2010.

Please contact us with any questions or comments.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Michael Lesakowski
Project Managet

Att.

c: P. Sheedy (Seneca Market I, LLC)
T. Costello (Seneca Market I, LLC)
Mark Sergott (NYSDOH- Troy)

TABLES

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1
SUMMARY OF GROUNDWATER MONITORING RESULTS
1st Semi-Annual Groundwater Monitoring Event (5/27) 2010

SENECA MARKET I, LLC SITE
WATKINS GLEN, NEW YORK

Parameter [1]	MW-1SR								MW-3SR										
	1/1/93 [2]	4/1/93 [2]	11/21/08	02/27/09	05/28/09	09/23/09	12/14/09	05/27/10	1/1/93 [2]	4/1/93 [2]	3/16/00 [3]	6/23/00 [4]	10/20/00 [5]	11/21/08	02/27/09	05/28/09	09/23/09	12/14/09	05/27/10
TCL Volatile Organic Compounds (VOCs) - ug/L																			
Acetone	ND	ND	1.4 J	ND	ND	ND	ND	ND	R	R	ND	24	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	2	ND	ND	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	1	13	4	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NA	NA	91	75	72	71	79	80	NA	NA	NA	NA	NA	13	3	1.8	1.7	7.3	ND
trans-1,2-Dichloroethene	NA	NA	0.71 J	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	0.24 J	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	43	40	NA	NA	NA	NA	NA	ND	770	87	1900	5500	2200	NA	NA	NA	NA	NA	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	R	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether (MTBE)	ND	ND	1.8	1.6	2	1.7	1.7	1.9	ND	ND	ND	ND	ND	4.6	5.1	4.7	4	4.3	4.1
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	410	300	88	70	87	83	67	70	88	8	77	83	ND	24	ND	ND	ND	4.2	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	22 J	26	21	17	21	20	20	18	190	20	83	200	14	7.7	ND	ND	ND	1.8	ND
Vinyl chloride	ND	ND	1.5	1.7	1.4	1.7	1.8	3	38 J	ND	17	420	390	2.6	1.2	ND	ND	ND	ND
o-Xylenes	ND	ND	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND
m+p Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	1.4	ND
Total VOCs	484.0	426.0	205.8	165.3	183.4	178.5	189.5	175.9	1086.0	115.0	2078.0	6277.0	2608.0	52.1	9.3	7.0	5.7	19.0	4.1
Total Chlorinated VOCs	475.0	426.0	202.2	163.7	181.4	175.7	187.8	171.0	1086.0	115.0	2077.0	6203.0	2604.0	47.5	4.2	2.0	1.7	13.3	0.0
Water Quality Parameters (mg/L)																			
Iron- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA
Manganese- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.94	5.49	5.6	4.91	ND	NA
Nitrate, mg/L-N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA
Sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.3	17.1	17	16.7	ND	NA
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	454	430	544	415	ND	NA
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	66	63	ND	52	67	NA
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA
Ethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0008 J	ND	ND	ND	ND	NA
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.051	0.049	0.13	0.074	0.074	NA
Total Alkalinity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	334	333	314	338	ND	NA
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	36.6	23.9	4.26	2.6	3.5	3.5	ND	NA
Field Measurements (units as indicated)																			
pH (units)			7.00	7.03	6.86	6.60	6.71	6.93						7.08	6.96	6.94	6.70	6.90	7.10
Temperature (°C)			11.4	11.5	17.2	18.6	11.9	14.9						11.7	10.8	14.2	19.6	13.2	16.1
Specific Conductance (uS)			2000	1663	1994	2107	2113	2127						2016	2000	1987	2028	2097	2038
Turbidity (NTU)			214	311	39.9	7.02	18.8	8.45						9.04	20.4	7.62	5.26	22	49.8
ORP (mV)			58	51	63	42	42	65						41	24	15	0	-51	-6
DO (ppm)			1.53	1.45	1.61	1.38	1.7	1.27						1.38	1.3	1.48	1.33	1.79	1.14

Parameter [1]	MW-7S											MW-10S									MW-21S					GWQS [6]
	1/1/93 [2]	4/1/93 [2]	3/16/00 [3]	6/23/00 [4]	10/20/00 [5]	11/21/08	02/27/09	05/28/09	09/23/09	12/14/09	05/27/10	1/1/93 [2]	4/1/93 [2]	11/21/08	11/21/08 Blind Duplicate	02/27/09	05/28/09	09/23/09	12/14/09	05/27/10	11/21/08	02/27/09	05/28/09	12/14/09	05/27/10	
TCL Volatile Organic Compounds (VOCs) - ug/L																										
Acetone	R	ND	ND	ND	ND	ND	ND	34	41	35	ND	20	R	ND	ND	ND	ND	ND	ND	ND	1.8 J	ND	ND	ND	ND	50
Benzene	6 J	R	7	11	ND	4.7	27	14	8.2	6.5	8.8	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	0.33 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	5
Cyclohexane	ND	ND	ND	ND	ND	8.8	21	12	11	12	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	4.1	3.5	3	7.5	2.7	2.2	NA	NA	ND	ND	ND	ND	ND	ND	ND	0.21 J	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total 1,2-Dichloroethene	ND	3 J	6	36	6	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	5
Ethylbenzene	ND	6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	1.4	1.7	1.3	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Methylcyclohexane	ND	ND	ND	ND	ND	1.4	6.9	4.4	5	5.1	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
Methylene chloride	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
4-methyl-2-pentanone (MIBK)	20	ND	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 (MTBE)	ND	ND	ND	ND	ND	4.5	3.7	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND	ND	10
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	ND	ND	ND	5	6	ND	ND	ND	ND	ND	ND	6 J	R	3.2	3.2	4	2.5	2.5	3.7	3.7	ND	ND	ND	ND	ND	5
Toluene	ND	ND	ND	2	ND	0.69 J	5.7	5.7	ND	ND	ND	ND	0.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Trichloroethene	ND	ND	ND	4	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	1	3	ND	1.3	1.1	ND	2.1	1.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23 J	ND	1	ND	ND	2
o-Xylenes	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
m+p Xylene	ND	ND	ND	ND	ND	0.3 J	3.3	8.3	5.8	3.8	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total Xylene	ND	2 J	ND	ND	ND	0.3 J	3.3	8.3	5.8	3.8	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Total VOCs	26.0	11.0	14.0	61.0	14.0	26.0	72.2	86.3	82.3	67.5	36.8	26.0	20.4	3.5	3.7	4.0	3.0	2.5	3.7	3.7	2.8	0.0	2.6	0.0	0.0	
Total Chlorinated VOCs	0.0	3.0	7.0	48.0	14.0	5.4	4.6	3.0	9.6	3.8	3.2	6.0	4.0	3.2	3.2	4.0	3.0	2.5	3.7	3.7	0.4	0.0	1.0	0.0	0.0	
Water Quality Parameters (mg/L)																										
Iron- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300
Manganese- Soluble	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300
Nitrate, mg/L-N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10
Sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.50E+08
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Ethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Total Alkalinity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Total Organic Carbon	NA	NA	9.5	8	12.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Field Measurements (units as indicated)																										
pH (units)						7.15	7.13	7.01	6.77	6.84	7.03			7.02	7.02	7.01	6.98	6.74	6.60	6.90	7.25	6.78	6.70	6.87	7.01	6.5 - 8.5
Temperature (°C)						11	10.6	15.3	17.6	13.2	14.5			11.5	11.5	12	16.1	19.7	12.8	16.1	11.9	7.5	22.7	12.3	17.3	–
Specific Conductance (uS)						2966	3252	4061	3416	3227	3720			1538	1538	1421	1153	1348	1569	1520	1140	1510	1429	1440	1175	–
Turbidity (NTU)						100	50.2	8.3	4.38	15.3	15.7			88.1	88.1	28.2	25	7.8	9.83	25.7	5.35	8.81	1.53	1.7	3.31	–
ORP (mV)						-87	-117	-139	-140	-113	-130			27	27	15	1	13	22	5	-99	-99	-132	98	-41	–
DO (ppm)						1.47	2.27	1.36	0.97	1.3	1.42			1.35	1.35	2.15	3.56	2.2	1.66	1.81	1.04	1.18	1.14	1.54	1.07	–

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. Results are from the 1993 RI/FS report prepared by URS.
3. Pre-injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
4. Between injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
5. Post-injection groundwater sampling results from the 2001 URS report "Evaluation of Site Remediation by In-Situ Oxidation."
6. Class "GA" Groundwater Quality Standards for NYSDEC Divisions of Water TOGS 1.1.1

Definitions:
ND = Parameter not detected above laboratory detection limit.
NA = Sample not analyzed for parameter.
"–" = No GWQS available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
R = Data rejected.
Exceedeeds GWQS

0092-002-200

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

TABLE 2

SUMMARY OF GROUNDWATER ELEVATIONS

First Semi-Annual Groundwater Monitoring Report (May 2010)
Seneca Market I, LLC Site
Watkins Glen, New York

Location	TOR Elevation (fmsl)	DTW (fbTOR)	Groundwater Elevation (fmsl)
MW-1SR	451.39	5.18	446.21
MW-3SR	451.89	5.53	446.36
MW-4S	450.68	4.41	446.27
MW-7S	450.85	4.61	446.24
MW-9S	453.57	7.39	446.18
MW-10S	452.01	5.81	446.20
MW-21S	453.09	5.14	447.95

Notes:

1. DTW = depth to water, measured in feet below top of riser
2. fmsl = feet above mean sea level
3. fbTOR = feet below top of riser
4. TOR = Top of Riser; elevations surveyed on 02-27-2009

FIGURES

F:\CAD\Benchmark\Krog\Seneca Harbor Hotel - Watkins Glen\GROUNDWATER MONITORING\GI\2010\Figure 1- Iso Map (May 2010).dwg

LEGEND:

- BCP PROPERTY BOUNDARY
- HOTEL BUILDING
- FORMER STATE SUPERFUND SITE
- MW-3SR 444.9 — SHALLOW NETWORK MONITORING WELL (TO BE SAMPLED) WITH GROUNDWATER ELEVATION
- MW-4S 444.9 — SHALLOW NETWORK MONITORING WELL (WATER LEVEL ONLY) WITH GROUNDWATER ELEVATION
- MW-12S — EXISTING OFF-SITE MONITORING WELL
- 446 — GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

MW-12S

MW-10S
446.20

446.2

MW-1SR
446.21

MW-9S
446.18

DECATUR STREET

FRANKLIN STREET

MW-7S
446.24

446.3

MW-4S
446.27

MW-3SR
446.36

446.4

VFW

MW-21S
447.95

FIRST STREET

MW-16S
(destroyed)

N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: JULY 2010
DRAFTED BY: BCH/JCT

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
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BUFFALO, NEW YORK 14210
(716) 856-0599

JOB NO.: 0211-001-600

LTGWM NETWORK & ISOPOTENTIAL MAP SEMI-ANNUAL MONITORING (MAY 2010)

LONG-TERM GROUNDWATER MONITORING PROGRAM

SENECA MARKET I, LLC SITE
WATKINS GLEN, NEW YORK
SITE NO. C849004

PREPARED FOR
SENECA MARKET I, LLC

FIGURE 1

ATTACHMENT 1

LABORATORY ANALYTICAL DATA

BENCHMARK

Columbia Analytical Services™ 1 Mustard Street, Suite 250 | Rochester, NY 14609 | 585-288-5380 | 585-288-8475 fax | www.caslab.com

June 11, 2010

Service Request No: R1002869

Mr. Michael Lesakowski
Benchmark Environmental Engineering
2558 Hamburg Turnpike
Suite 300
Lackawanna, NY 14218

Laboratory Results for: Seneca Market

Dear Mr. Lesakowski:

Enclosed are the results of the sample(s) submitted to our laboratory on May 27, 2010. For your reference, these analyses have been assigned our service request number **R1002869**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 135. You may also contact me via email at JJaeger@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Janice Jaeger
Client Services Manager

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1002869

Lab ID	Client ID
R1002860-002	Batch QC
R1002869-001	MW-10S
R1002869-002	MW-1SR
R1002869-003	MW-7S
R1002869-004	MW-21S
R1002869-005	MW-3SR
R1002869-006	TRIP BLANK

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by CAS personnel have been in accordance with "CAS Field Procedures and Measurements Manual" or by client specifications.

Columbia Analytical Services™

REPORT QUALIFIERS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Nebraska Accredited
Navy Facilities Engineering Service Center Approved
Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 0914
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-10S	**Units:**	µg/L
Lab Code:	R1002869-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	6/4/10 14:09		203489	
1,2-Dibromoethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,2-Dichloroethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,2-Dichloropropane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
2-Butanone (MEK)	5.0	U	5.0	1	NA	6/4/10 14:09		203489	
2-Hexanone	5.0	U	5.0	1	NA	6/4/10 14:09		203489	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	6/4/10 14:09		203489	
Acetone	5.0	U	5.0	1	NA	6/4/10 14:09		203489	
Benzene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Bromodichloromethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Bromoform	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Bromomethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Carbon Disulfide	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Carbon Tetrachloride	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Chlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Chloroethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Chloroform	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Chloromethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Cyclohexane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Dibromochloromethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Dichloromethane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Ethylbenzene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 0914
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-10S	**Units:**	µg/L
Lab Code:	R1002869-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Methyl Acetate	2.0	U	2.0	1	NA	6/4/10 14:09		203489	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Methylcyclohexane	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Styrene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Tetrachloroethene (PCE)	3.7		1.0	1	NA	6/4/10 14:09		203489	
Toluene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
Vinyl Chloride	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
cis-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
m,p-Xylenes	2.0	U	2.0	1	NA	6/4/10 14:09		203489	
o-Xylene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 14:09		203489	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	103	85-122	6/4/10 14:09		
Dibromofluoromethane	104	89-119	6/4/10 14:09		
Toluene-d8	106	87-121	6/4/10 14:09		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 0952
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-1SR	**Units:**	µg/L
Lab Code:	R1002869-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	6/4/10 14:37		203489	
1,2-Dibromoethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,2-Dichloroethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,2-Dichloropropane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
2-Butanone (MEK)	5.0	U	5.0	1	NA	6/4/10 14:37		203489	
2-Hexanone	5.0	U	5.0	1	NA	6/4/10 14:37		203489	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	6/4/10 14:37		203489	
Acetone	5.0	U	5.0	1	NA	6/4/10 14:37		203489	
Benzene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Bromodichloromethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Bromoform	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Bromomethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Carbon Disulfide	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Carbon Tetrachloride	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Chlorobenzene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Chloroethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Chloroform	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Chloromethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Cyclohexane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Dibromochloromethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Dichloromethane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Ethylbenzene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 0952
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-1SR	**Units:**	µg/L
Lab Code:	R1002869-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Methyl Acetate	2.0	U	2.0	1	NA	6/4/10 14:37		203489	
Methyl tert-Butyl Ether	1.9		1.0	1	NA	6/4/10 14:37		203489	
Methylcyclohexane	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Styrene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Tetrachloroethene (PCE)	70		1.0	1	NA	6/4/10 14:37		203489	
Toluene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Trichloroethene (TCE)	18		1.0	1	NA	6/4/10 14:37		203489	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
Vinyl Chloride	3.0		1.0	1	NA	6/4/10 14:37		203489	
cis-1,2-Dichloroethene	80		1.0	1	NA	6/4/10 14:37		203489	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
m,p-Xylenes	2.0	U	2.0	1	NA	6/4/10 14:37		203489	
o-Xylene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 14:37		203489	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	101	85-122	6/4/10 14:37		
Dibromofluoromethane	105	89-119	6/4/10 14:37		
Toluene-d8	103	87-121	6/4/10 14:37		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 1013
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-7S	**Units:**	µg/L
Lab Code:	R1002869-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	6/4/10 15:04		203489	
1,2-Dibromoethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,2-Dichloroethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,2-Dichloropropane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
2-Butanone (MEK)	5.0	U	5.0	1	NA	6/4/10 15:04		203489	
2-Hexanone	5.0	U	5.0	1	NA	6/4/10 15:04		203489	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	6/4/10 15:04		203489	
Acetone	5.0	U	5.0	1	NA	6/4/10 15:04		203489	
Benzene	8.8		1.0	1	NA	6/4/10 15:04		203489	
Bromodichloromethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Bromoform	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Bromomethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Carbon Disulfide	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Carbon Tetrachloride	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Chlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Chloroethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Chloroform	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Chloromethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Cyclohexane	15		1.0	1	NA	6/4/10 15:04		203489	
Dibromochloromethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Dichloromethane	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Ethylbenzene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 1013
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-7S	**Units:**	µg/L
Lab Code:	R1002869-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**1.6**		1.0	1	NA	6/4/10 15:04		203489	
Methyl Acetate	2.0	U	2.0	1	NA	6/4/10 15:04		203489	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Methylcyclohexane	**5.1**		1.0	1	NA	6/4/10 15:04		203489	
Styrene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Toluene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
Vinyl Chloride	**1.0**		1.0	1	NA	6/4/10 15:04		203489	
cis-1,2-Dichloroethene	**2.2**		1.0	1	NA	6/4/10 15:04		203489	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
m,p-Xylenes	**3.1**		2.0	1	NA	6/4/10 15:04		203489	
o-Xylene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 15:04		203489	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	104	85-122	6/4/10 15:04		
Dibromofluoromethane	108	89-119	6/4/10 15:04		
Toluene-d8	105	87-121	6/4/10 15:04		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 1037
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-21S	**Units:**	µg/L
Lab Code:	R1002869-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	6/4/10 15:31		203489	
1,2-Dibromoethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,2-Dichloroethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,2-Dichloropropane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
2-Butanone (MEK)	5.0	U	5.0	1	NA	6/4/10 15:31		203489	
2-Hexanone	5.0	U	5.0	1	NA	6/4/10 15:31		203489	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	6/4/10 15:31		203489	
Acetone	5.0	U	5.0	1	NA	6/4/10 15:31		203489	
Benzene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Bromodichloromethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Bromoform	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Bromomethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Carbon Disulfide	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Carbon Tetrachloride	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Chlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Chloroethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Chloroform	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Chloromethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Cyclohexane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Dibromochloromethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Dichloromethane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Ethylbenzene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 1037
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-21S	**Units:**	µg/L
Lab Code:	R1002869-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Methyl Acetate	2.0	U	2.0	1	NA	6/4/10 15:31		203489	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Methylcyclohexane	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Styrene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Toluene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
Vinyl Chloride	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
cis-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
m,p-Xylenes	2.0	U	2.0	1	NA	6/4/10 15:31		203489	
o-Xylene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 15:31		203489	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	104	85-122	6/4/10 15:31		
Dibromofluoromethane	109	89-119	6/4/10 15:31		
Toluene-d8	103	87-121	6/4/10 15:31		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 1057
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-3SR	**Units:**	µg/L
Lab Code:	R1002869-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	6/4/10 15:59		203489	
1,2-Dibromoethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,2-Dichloroethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,2-Dichloropropane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
2-Butanone (MEK)	5.0	U	5.0	1	NA	6/4/10 15:59		203489	
2-Hexanone	5.0	U	5.0	1	NA	6/4/10 15:59		203489	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	6/4/10 15:59		203489	
Acetone	5.0	U	5.0	1	NA	6/4/10 15:59		203489	
Benzene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Bromodichloromethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Bromoform	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Bromomethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Carbon Disulfide	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Carbon Tetrachloride	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Chlorobenzene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Chloroethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Chloroform	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Chloromethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Cyclohexane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Dibromochloromethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Dichloromethane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Ethylbenzene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 1057
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	MW-3SR	**Units:**	µg/L
Lab Code:	R1002869-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Methyl Acetate	2.0	U	2.0	1	NA	6/4/10 15:59		203489	
Methyl tert-Butyl Ether	4.1		1.0	1	NA	6/4/10 15:59		203489	
Methylcyclohexane	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Styrene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Toluene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
Vinyl Chloride	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
cis-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
m,p-Xylenes	2.0	U	2.0	1	NA	6/4/10 15:59		203489	
o-Xylene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 15:59		203489	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	105	85-122	6/4/10 15:59		
Dibromofluoromethane	107	89-119	6/4/10 15:59		
Toluene-d8	104	87-121	6/4/10 15:59		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 0914
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1002869-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	6/4/10 16:26		203489	
1,2-Dibromoethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,2-Dichloroethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,2-Dichloropropane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
2-Butanone (MEK)	5.0	U	5.0	1	NA	6/4/10 16:26		203489	
2-Hexanone	5.0	U	5.0	1	NA	6/4/10 16:26		203489	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	6/4/10 16:26		203489	
Acetone	5.0	U	5.0	1	NA	6/4/10 16:26		203489	
Benzene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Bromodichloromethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Bromoform	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Bromomethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Carbon Disulfide	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Carbon Tetrachloride	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Chlorobenzene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Chloroethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Chloroform	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Chloromethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Cyclohexane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Dibromochloromethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Dichloromethane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Ethylbenzene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	5/27/10 0914
Sample Matrix:	Water	**Date Received:**	5/27/10
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1002869-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Methyl Acetate	2.0	U	2.0	1	NA	6/4/10 16:26		203489	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Methylcyclohexane	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Styrene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Toluene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
Vinyl Chloride	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
cis-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
m,p-Xylenes	2.0	U	2.0	1	NA	6/4/10 16:26		203489	
o-Xylene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 16:26		203489	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	106	85-122	6/4/10 16:26		
Dibromofluoromethane	109	89-119	6/4/10 16:26		
Toluene-d8	109	87-121	6/4/10 16:26		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1004419-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	6/4/10 11:35		203489	
1,2-Dibromoethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,2-Dichloroethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,2-Dichloropropane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
2-Butanone (MEK)	5.0	U	5.0	1	NA	6/4/10 11:35		203489	
2-Hexanone	5.0	U	5.0	1	NA	6/4/10 11:35		203489	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	6/4/10 11:35		203489	
Acetone	5.0	U	5.0	1	NA	6/4/10 11:35		203489	
Benzene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Bromodichloromethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Bromoform	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Bromomethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Carbon Disulfide	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Carbon Tetrachloride	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Chlorobenzene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Chloroethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Chloroform	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Chloromethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Cyclohexane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Dibromochloromethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Dichloromethane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Ethylbenzene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1002869
Project:	Seneca Market	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1004419-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Methyl Acetate	2.0	U	2.0	1	NA	6/4/10 11:35		203489	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Methylcyclohexane	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Styrene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Toluene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
Vinyl Chloride	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
cis-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
m,p-Xylenes	2.0	U	2.0	1	NA	6/4/10 11:35		203489	
o-Xylene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	6/4/10 11:35		203489	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	105	85-122	6/4/10 11:35		
Dibromofluoromethane	105	89-119	6/4/10 11:35		
Toluene-d8	105	87-121	6/4/10 11:35		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Benchmark Environmental Engineering
Project: Seneca Market
Sample Matrix: Water

Service Request: R1002869
Date Analyzed: 6/ 4/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 203489

Analyte Name	Lab Control Sample RQ1004419-02 Result	Expected	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	21.4	20.0	107	72 - 128
1,1,2,2-Tetrachloroethane	17.9	20.0	90	72 - 131
1,1,2-Trichloroethane	18.8	20.0	94	80 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	20.9	20.0	105	71 - 134
1,1-Dichloroethane (1,1-DCA)	20.9	20.0	104	76 - 122
1,1-Dichloroethene (1,1-DCE)	19.8	20.0	99	72 - 129
1,2,4-Trichlorobenzene	18.3	20.0	92	70 - 133
1,2-Dibromo-3-chloropropane (DBCP)	18.5	20.0	92	62 - 131
1,2-Dibromoethane	18.1	20.0	90	78 - 125
1,2-Dichlorobenzene	18.5	20.0	92	79 - 124
1,2-Dichloroethane	21.2	20.0	106	78 - 126
1,2-Dichloropropane	19.3	20.0	97	80 - 123
1,3-Dichlorobenzene	18.4	20.0	92	78 - 124
1,4-Dichlorobenzene	18.4	20.0	92	78 - 123
2-Butanone (MEK)	19.7	20.0	98	60 - 133
2-Hexanone	18.2	20.0	91	61 - 131
4-Methyl-2-pentanone	18.1	20.0	91	61 - 132
Acetone	18.8	20.0	94	59 - 140
Benzene	19.0	20.0	95	78 - 121
Bromodichloromethane	19.8	20.0	99	80 - 125
Bromoform	17.5	20.0	88	73 - 132
Bromomethane	22.1	20.0	110	57 - 144
Carbon Disulfide	20.3	20.0	101	59 - 138
Carbon Tetrachloride	19.7	20.0	98	69 - 135
Chlorobenzene	18.6	20.0	93	80 - 121
Chloroethane	19.9	20.0	100	71 - 130
Chloroform	20.2	20.0	101	78 - 125
Chloromethane	21.0	20.0	105	62 - 133
Cyclohexane	19.5	20.0	98	67 - 127
Dibromochloromethane	19.1	20.0	95	78 - 133
Dichlorodifluoromethane (CFC 12)	21.9	20.0	109	53 - 143
Dichloromethane	19.2	20.0	96	75 - 125
Ethylbenzene	19.0	20.0	95	78 - 123
Isopropylbenzene (Cumene)	20.5	20.0	102	73 - 133
Methyl Acetate	17.5	20.0	88	57 - 157
Methyl tert-Butyl Ether	19.4	20.0	97	75 - 126

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Benchmark Environmental Engineering
Project: Sencca Market
Sample Matrix: Water

Service Request: R1002869
Date Analyzed: 6/ 4/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 203489

Analyte Name	Lab Control Sample RQ1004419-02 Result	Expected	% Rec	% Rec Limits
Methylcyclohexane	19.4	20.0	97	64 - 133
Styrene	17.9	20.0	90	80 - 132
Tetrachloroethene (PCE)	17.9	20.0	89	72 - 131
Toluene	19.5	20.0	98	78 - 122
Trichloroethene (TCE)	19.3	20.0	97	74 - 127
Trichlorofluoromethane (CFC 11)	22.3	20.0	111	71 - 139
Vinyl Chloride	21.5	20.0	108	71 - 136
cis-1,2-Dichloroethene	19.1	20.0	96	78 - 122
cis-1,3-Dichloropropene	18.4	20.0	92	77 - 125
m,p-Xylenes	37.7	40.0	94	79 - 126
o-Xylene	18.5	20.0	92	79 - 126
trans-1,2-Dichloroethene	19.4	20.0	97	75 - 121
trans-1,3-Dichloropropene	18.6	20.0	93	69 - 127

Comments:

Columbia Analytical Services — CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR #

CAS Contact

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: Seneca Markets GWM	Project Number:
Project Manager: M Leszkowski	Report CC:
Company/Address: Benchmark Eng 2558 Hamburg Turnpike Lackawanna NY 14218	
Phone #	FAX#
Sampler's Signature	Sampler's Printed Name

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
mw-10s		5/27	914		3								
mw-1SR			952		3								
mw-7s			1013		3								
mw-21s			1037		3								
MW-3SR			1057		1								
Trip Blank					3								

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

☐ See QAPP

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
____ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report
____ V. Specialized Forms / Cu
Edata ____ Yes

INVOICE INFORMATION
PO#
BILL TO:

R1002869
Benchmark Environmental Engineering
Seneca Market

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Thomas A Behrendt	Printed Name: Gregory LaForce	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Benchmark	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 5/27/10 1352	Date/Time: 5/27/10 1352	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy

SCOC Rev. 3/10

Cooler Receipt And Preservation Check Form

Project/Client Benchmark Submission Number R10-2869

Cooler received on 5/27/10 by: CB COURIER: CAS UPS FEDEX VELOCITY (CLIENT)

1.	Were custody seals on outside of cooler?	YES	(NO)
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES)	NO
3.	Did all bottles arrive in good condition (unbroken)?	(YES)	NO
4.	Did any VOA vials have significant* air bubbles?	(YES)	NO N/A
5.	Were **Ice** or **Ice packs** present?	(YES)	NO
6.	Where did the bottles originate?	(CAS/ROC)	CLIENT

Blind DUP 1 VIAL

7. Temperature of cooler(s) upon receipt:	6°				
Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 5/27/10 1400

Thermometer ID: IR GUN#3 / (IR GUN#4) Reading From: (Temp Blank) / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: JMS 5/27/10

Cooler Breakdown: Date: 5/27/10 by: BO

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO

4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	$Na_2S_2O_3$	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	4109100	4/11				

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 9-356-001

Other Comments:

PC Secondary Review: JMS 6/2/10 *significant air bubbles are greater than 5-6 mm