LaBella Associates, P.C.
300 State Street
Rochester, New York 14614

Appendix 3

Historical Groundwater Analytical Results

Groundwater Sample Results

Table XI of January 1994 H&A Report

TABLE XI
SUMMARY OF GROUNDWATER SAMPLING ANALYTICAL RESULTS
FORMER EMERSON STREET LANDFILL
MODIFIED REMEDIAL INVESTIGATION
ROCHESTER, NEW YORK

SAMPLE LOCATION	NYS DEC STD (8)	GW-1	GW-2	GW-2 dup	GW-3	GW-4	GW-5	GW-6	GW-7	GW-8D	GW-9	GW-10S	GW-10D
PARAMETERS													
VOLATILE ORGANICS	ppb												
VINYL CHLORIDE	2	ND	ND	ND	ND	ND	ND	ND	18	ND	35	ND	ND
CIS-1,2-DICHLOROETHENE	5	ND	ND	ND	ND	ND	ND	ND	19	ND	59	ND	ND
TRANS-1,2-DICHLOROETHENE	5	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND
TRICHLOROETHENE	5	ND	ND	ND	ND	ND	ND	ND	5 J	ND	ND	ND	ND
TETRACHLOROETHENE	5	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZENE	0.7	ND	5 J	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	5	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	ND	ND	ND	ND	ND	ND	7 J	ND	ND	ND	ND	ND
(M+P)XYLENE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J
1,1,1-TRICHLOROETHANE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROMETHANE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACETONE	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0-XYLENE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROETHANE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
# OF TIC'S		1	1	0	1	0	0	0	0	0	0	0	0
TOTAL CONCENTRATIONS		10	6	--	6	--	--	--	--	--	--	--	--
SEMI-VOLATILES					NA	NA		NA		NA		NA	NA
PHENOL	1	ND	ND	ND			ND		ND		ND		
2-METHYLPHENOL	5	ND	ND	ND			ND		ND		ND		
2,4-DIMETHYLPHENOL	5	ND	ND	ND			ND		ND		ND		
NAPHTHALENE	10	ND	ND	ND			ND		ND		ND		
2-METHYLNAPHTHALENE	50	ND	ND	ND			ND		ND		ND		
ISOPHORONE	50		ND	ND			ND		ND		ND		
BIS(2-ETHYLHEXYL)PHTHALATE	50	2 JB	2 JB	2 JB			3 JB		2 JB		1 JB		
DI-N-BUTYLPHTHALATE	50	ND	ND	ND			1 J		1 JB		1 JB		
# OF TIC'S		24	11	14			11		17		15		
TOTAL CONCENTRATIONS		862	58	114			120		38		320		

NOTES:

1. ALL CONCENTRATIONS PRESENTED IN UNITS OF UG/KG (PARTS PER BILLION) UNLESS OTHERWISE NOTED.
2. J - LABORATORY DATA QUALIFIER INDICATING AN ESTIMATED CONCENTRATION REPORTED BELOW PRACTICAL QUANTITATION LIMIT.
3. ND - NOT DETECTED.
4. NA - NOT ANALYZED.
5. B - LABORATORY DATA QUALIFIER INDICATING ANALYTE IS FOUND IN ASSOCIATED BLANK AS WELL AS IN THE SAMPLE.
6. TIC's = TENTATIVELY IDENTIFIED COMPOUNDS
7. NR = NOT REGULATED
8. GROUNDWATER QUALITY STANDARD OR GUIDANCE VALUE (GV) REFERENCED FROM NYSDEC DIVISION OF WATER T.O.G.S. (1.1.1) REVISED NOVEMBER 15, 1991. SHADING INDICATES THE STANDARD OR GUIDANCE VALUE IS EXCEEDED.
9. SEE FIGURE 5 FOR MONITORING WELL SAMPLING LOCATIONS.

TABLE XI
SUMMARY OF GROUNDWATER SAMPLING ANALYTICAL RESULTS
FORMER EMERSON STREET LANDFILL
MODIFIED REMEDIAL INVESTIGATION
ROCHESTER, NEW YORK

SAMPLE LOCATION	NYS DEC STD (8)	GW-11	GW-12	GW-13	MW-14S	MW-14D	MW-15S	MW-15D	MW-16S	MW-16D	MW-17	MW-17 dup	MW-18S
PARAMETERS													
VOLATILE ORGANICS	ppb												
VINYL CHLORIDE	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHENE	5	1 J	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
TRICHLOROETHENE	5	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND
TETRACHLOROETHENE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZENE	0.7	ND	ND	ND	ND	ND	ND	590	ND	ND	ND	ND	ND
CHLOROBENZENE	5	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
(M+P)XYLENE	5	ND	ND	ND	ND	ND	ND	82	ND	5 J	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	5	ND	ND	ND	ND	ND	ND	50	ND	ND	ND	ND	ND
ETHYLBENZENE	5	ND	ND	ND	ND	ND	ND	54 J	ND	ND	ND	ND	ND
CHLOROMETHANE	5	ND	ND	ND	ND	ND	ND	150	ND	ND	ND	ND	ND
ACETONE	NR	ND	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND
0-XYLENE	5	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND
CHLOROETHANE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
# OF TIC'S		0	1	0	0	0	1	8	1	1	0	1	0
TOTAL CONCENTRATIONS		--	19	--	--	--	7	603	9	8	--	6	--
SEMI-VOLATILES		NA	NA										
PHENOL	1			ND	ND	ND	ND	7 J	ND	ND	ND	ND	ND
2-METHYLPHENOL	5			ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND
2,4-DIMETHYLPHENOL	5			ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND
NAPHTHALENE	10			ND	ND	ND	ND	4 J	ND	ND	ND	ND	ND
2-METHYLNAPHTHALENE	50			ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND
ISOPHORONE	50			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHALATE	50			ND	ND	8 J	8 J	14	2 JB	4 JB	1 JB	ND	1 JB
DI-N-BUTYLPHTHALATE	50			1 JB	ND	2 J	ND	1J	1 J	2 J	ND	ND	ND
# OF TIC'S				20	13	20	10	20	14	20	16	15	16
TOTAL CONCENTRATIONS				480	89	929	46	1549	67	851	116	94	87

NOTES:

1. ALL CONCENTRATIONS PRESENTED IN UNITS OF UG/KG (PARTS PER BILLION) UNLESS OTHERWISE NOTED.
2. J - LABORATORY DATA QUALIFIER INDICATING AN ESTIMATED CONCENTRATION REPORTED BELOW PRACTICAL QUANTITATION LIMIT.
3. ND - NOT DETECTED.
4. NA - NOT ANALYZED.
5. B- LABORATORY DATA QUALIFIER INDICATING ANALYTE IS FOUND IN ASSOCIATED BLANK AS WELL AS IN THE SAMPLE.
6. TIC's = TENTATIVELY IDENTIFIED COMPOUNDS
7. NR = NOT REGULATED
8. GROUNDWATER QUALITY STANDARD OR GUIDANCE VALUE (GV) REFERENCED FROM NYSDEC DIVISION OF WATER T.O.G.S. (1.1.1) REVISED NOVEMBER 15, 1991. SHADING INDICATES THE STANDARD OR GUIDANCE VALUE IS EXCEEDED.
9. SEE FIGURE 5 FOR MONITORING WELL SAMPLING LOCATIONS.

TABLE XI
SUMMARY OF GROUNDWATER SAMPLING ANALYTICAL RESULTS
FORMER EMERSON STREET LANDFILL
MODIFIED REMEDIAL INVESTIGATION
ROCHESTER, NEW YORK

SAMPLE LOCATION	NYS DEC STD (8)	MW-18D	MW-19	P-1	P-1 dup	P-2	P-3	P-4	P-5
PARAMETERS									
VOLATILE ORGANICS	ppb								
VINYL CHLORIDE	2	ND	ND	1000	1100	26	ND	ND	ND
CIS-1,2-DICHLOROETHENE	5	ND	ND	10000	11000	330 E	ND	3 J	ND
TRANS-1,2-DICHLOROETHENE	5	ND	ND	21 J	25 J	2 J	ND	ND	ND
TRICHLOROETHENE	5	1 J	ND	280	350	730 E	ND	ND	ND
TETRACHLOROETHENE	5	ND	ND	3300	3500	ND	ND	ND	ND
BENZENE	0.7	ND	ND	ND	ND	ND	1 J	ND	ND
CHLOROBENZENE	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	4 J	ND	120 J	140 J	ND	ND	ND	ND
(M+P)XYLENE	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	ND	ND	56 J	65 J	ND	ND	ND	ND
TOLUENE	5	ND	ND	20 J	23 J	ND	ND	ND	ND
ETHYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROMETHANE	5	ND	ND	ND	ND	ND	ND	ND	ND
ACETONE	NR	ND	ND	ND	ND	ND	ND	ND	ND
0-XYLENE	5	1 J	ND	ND	ND	ND	ND	ND	ND
CHLOROETHANE	5	ND	27	ND	ND	ND	ND	ND	ND
# OF TIC'S		0	0	0	0	1	0	0	0
TOTAL CONCENTRATIONS		--	--	--	--	6	--	--	--
SEMI-VOLATILES				NA	NA	NA	NA	NA	NA
PHENOL	1	ND	ND						
2-METHYLPHENOL	5	ND	ND						
2,4-DIMETHYLPHENOL	5	ND	ND						
NAPHTHALENE	10	ND	ND						
2-METHYLNAPHTHALENE	50	ND	ND						
ISOPHORONE	50	ND	ND						
BIS(2-ETHYLHEXYL)PHTHALATE	50	10	1 JB						
DI-N-BUTYLPHTHALATE	50	1 J	1 J						
# OF TIC'S		20	16						
TOTAL CONCENTRATIONS		251	75						

NOTES:

1. ALL CONCENTRATIONS PRESENTED IN UNITS OF UG/KG (PARTS PER BILLION) UNLESS OTHERWISE NOTED.
2. J - LABORATORY DATA QUALIFIER INDICATING AN ESTIMATED CONCENTRATION REPORTED BELOW PRACTICAL QUANTITATION LIMIT.
3. ND - NOT DETECTED.
4. NA - NOT ANALYZED.
5. B - LABORATORY DATA QUALIFIER INDICATING ANALYTE IS FOUND IN ASSOCIATED BLANK AS WELL AS IN THE SAMPLE.
6. TIC's = TENTATIVELY IDENTIFIED COMPOUNDS
7. NR = NOT REGULATED
8. GROUNDWATER QUALITY STANDARD OR GUIDANCE VALUE (GV) REFERENCED FROM NYSDEC DIVISION OF WATER T.O.G.S. (1.1.1) REVISED NOVEMBER 15, 1991. SHADING INDICATES THE STANDARD OR GUIDANCE VALUE IS EXCEEDED.
9. SEE FIGURE 5 FOR MONITORING WELL SAMPLING LOCATIONS.

TABLE XI
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER EMERSON STREET LANDFILL
MODIFIED REMEDIAL INVESTIGATION
ROCHESTER, NEW YORK

SAMPLE LOCATION	NYS DEC STD (10)	GW-1	GW-2		GW-2 dup		GW-3	GW-4	GW-5	GW-6		GW-7	GW-8D	GW-9
PARAMETERS			TOTAL	DISSOLVED	TOTAL	DISSOLVED				TOTAL	DISSOLVED			
METALS		NA					NA	NA	NA			NA	NA	NA
ALUMINUM	NR		592	38.2 B	538	38.1 B				459	72.5 B			
ANTIMONY	3 (GV)		ND	ND	ND	ND				ND	ND			
ARSENIC	25		ND	ND	ND	ND				ND	ND			
BARIUM	1,000		97.4 B	95.7 B	95.6 B	94.0 B				150 B	143 B			
BERYLLIUM	3 (GV)		ND	6.3	ND	ND				ND	ND			
CADMIUM	10		ND	ND	ND	ND				ND	ND			
CALCIUM	NR		160000	159000	163000	152000				229000	226000			
CHROMIUM	50		3.5 B	ND	3.1 B	2.9 B				2.9 B	4.6 B			
COBALT	NR		9.2 B	9.7 B	11.8 B	14.1 B				14.8 B	15.4 B			
COPPER	200		ND	ND	2.9 B	ND				ND	ND			
IRON	300		2840	529	3060	620				269	106			
LEAD	25		2.5 BW	ND	ND	ND				2.0 BW	ND			
MAGNESIUM	35,000 (GV)		56900	56300	57300	54500				92400	91600			
MANGANESE	300		101	91.4	102	93.0				25.0	48.1			
MERCURY	2		ND	ND	ND	ND				ND	ND			
NICKEL	NR		ND	ND	ND	ND				ND	ND			
POTASSIUM	NR		25800	25600	25800	25500				23900	23200			
SELENIUM	10		1.3 BNW	ND	ND	ND				ND	1.6 BN			
SILVER	50		ND	ND	ND	ND				ND	ND			
SODIUM	20,000		296000	349000	324000	293000				439000	427000			
THALLIUM	4 (GV)		ND	ND	ND	ND				ND	ND			
VANADIUM	NR		26.4 B	36.4 B	28.3 B	24.8 B				24.1 B	42.2 B			
ZINC	300		25.5	ND	25.7	6.0 B				ND	5.6 B			
CYANIDE	100	NA	ND	--	ND	--	NA	NA	NA	ND	--	NA	NA	NA
PESTICIDES		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

1. ALL CONCENTRATIONS PRESENTED IN UNITS OF UG/KG (PARTS PER BILLION) UNLESS OTHERWISE NOTED.
2. ND – NOT DETECTED.
3. NA – NOT ANALYZED.
4. B– LABORATORY DATA QUALIFIER INDICATING THE REPORTED VALUE WAS OBTAINED FROM A READING THAT WAS LESS THAN THE CONTRACT REQUIRED DETECTION LIMIT BUT GREATER THAN OR EQUAL TO THE INSTRUMENT DETECTION LIMIT.
5. W– LABORATORY DATA QUALIFIER INDICATING POST DIGESTION SPIKE FOR FURNACE AA IS OUT OF CONTROL LIMITS (85–115%) WHILE SAMPLE ABSORBANCE IS LESSTHAN 50% OF SPIKE ABSORBANCE.
6. N– LABORATORY DATA QUALIFIER INDICATING SPIKED SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS.
7. S– LABORATORY DATA QUALIFIER INDICATING THE REPORTED VALUE WAS DETERMINED BY THE METHOD OF STANDARD ADDITIONS (MSA).
8. * – LABORATORY DATA QUALIFIER INDICATING DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS.
9. NR – NOT REGULATED.
10. GROUNDWATER QUALITY STANDARD OR GUIDANCE VALUE (GV) REFERENCED FROM NYSDEC DIVISION OF WATER T.O.G.S (1.1.1) REVISED NOVEMBER 15, 1991. SHADING INDICATES THE STANDARD OR GUIDANCE VALUE IS EXCEEDED.
11. SEE FIGURE 5 FOR MONITORING WELL SAMPLING LOCATIONS.

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FILE NO. 70352-47

H & A OF NEW YORK
ROCHESTER, NEW YORK

TABLE XI
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER EMERSON STREET LANDFILL
MODIFIED REMEDIAL INVESTIGATION
ROCHESTER, NEW YORK

SAMPLE LOCATION	NYS DEC STD (10)	GW-10S		GW-10D	GW-11	GW-12		GW-13		MW-14S	MW-14D	MW-15S	MW-15D
PARAMETERS		TOTAL	DISSOLVED			TOTAL	DISSOLVED	TOTAL	DISSOLVED	TOTAL	TOTAL	TOTAL	TOTAL
METALS				NA	NA								
ALUMINUM	NR	5870 N*	ND			1070	37.3 B	214	131 B	684	829 N*	40.6 B N*	8350 N*
ANTIMONY	3 (GV)	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	25	2.9 B	0.91 BW			10.8	8.2 B	3.5 B	ND	ND	1.6 B	ND	ND
BARIUM	1,000	110 B	81.0 B			319	298	140 B	132 B	79.4 B	35.9 B	113 B	143 B
BERYLLIUM	3 (GV)	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM	10	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND
CALCIUM	NR	185000	168000			39700	42300	89600	88600	182000	396000	121000	1510000
CHROMIUM	50	9.4 B	ND			10.0	7.4 B	7.5 B	6.6 B	3.8 B	6.1 B	3.6 B	27.9
COBALT	NR	ND	ND			ND	9.5 B	9.4 B	ND	10.9 B	18.5 B	ND	25.2 B
COPPER	200	24.4 B	4.4 B			16.8 B	ND	31.4	ND	7.6 B	8.9 B	2.9 B	20.7 B
IRON	300	7150 *	230 *			6010	1020	1340	692	3850	1160 *	337 *	5460 *
LEAD	25	30.2 S*	19.8 S*			25.4 S	ND	31.5	3.0 W	16.0	ND	ND	34.1 S*
MAGNESIUM	35,000 (GV)	70400	66500			30000	30100	57800	57100	53700	106000	32400	215000
MANGANESE	300	1170	1100			41.9	13.9 B	26.2	22.1	676	30.3	31.4	80.6
MERCURY	2	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	NR	ND	ND			17.9 B	11.3 B	ND	ND	ND	ND	ND	ND
POTASSIUM	NR	5310	3680 B			79800	76700	82600	83900	7700	32100	46500	123000
SELENIUM	10	ND	ND			1.9 BW	1.6 BW	ND	ND	2.4 BW	ND	ND	ND
SILVER	50	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND
SODIUM	20,000	406000	418000			746000	746000	646000	621000	295000	179000	234000	918000
THALLIUM	4 (GV)	ND	ND			ND	ND	ND	ND	ND	ND	ND	9.5 B
VANADIUM	NR	18.4 B	17.2 B			17.0 B	14.1 B	46.0 B	48.1 B	12.6 B	23.8 B	ND	66.6
ZINC	300	26.8	8.5 B			25.8	6.8 B	36.1	6.5 B	21.6	67.6	15.2 B	85.7
CYANIDE	100	ND	--	NA	NA	14.4	--	ND	--	ND	ND	ND	ND
PESTICIDES		NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND

NOTES:

1. ALL CONCENTRATIONS PRESENTED IN UNITS OF UG/KG (PARTS PER BILLION) UNLESS OTHERWISE NOTED.
2. ND – NOT DETECTED.
3. NA – NOT ANALYZED.
4. B– LABORATORY DATA QUALIFIER INDICATING THE REPORTED VALUE WAS OBTAINED FROM A READING THAT WAS LESS THAN THE CONTRACT REQUIRED DETECTION LIMIT BUT GREATER THAN OR EQUAL TO THE INSTRUMENT DETECTION LIMIT.
5. W– LABORATORY DATA QUALIFIER INDICATING POST DIGESTION SPIKE FOR FURNACE AA IS OUT OF CONTROL LIMITS (85–115%) WHILE SAMPLE ABSORBANCE IS LESSTHAN 50% OF SPIKE ABSORBANCE.
6. N– LABORATORY DATA QUALIFIER INDICATING SPIKED SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS.
7. S– LABORATORY DATA QUALIFIER INDICATING THE REPORTED VALUE WAS DETERMINED BY THE METHOD OF STANDARD ADDITIONS (MSA).
8. * – LABORATORY DATA QUALIFIER INDICATING DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS.
9. NR – NOT REGULATED.
10. GROUNDWATER QUALITY STANDARD OR GUIDANCE VALUE (GV) REFERENCED FROM NYSDEC DIVISION OF WATER T.O.G.S (1.1.1) REVISED NOVEMBER 15, 1991. SHADING INDICATES THE STANDARD OR GUIDANCE VALUE IS EXCEEDED.
11. SEE FIGURE 5 FOR MONITORING WELL SAMPLING LOCATIONS.

VBD:\WKS24\70348-40\SOILBOR.WK1

TABLE XI
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER EMERSON STREET LANDFILL
MODIFIED REMEDIAL INVESTIGATION
ROCHESTER, NEW YORK

SAMPLE LOCATION	NYS DEC STD (10)	MW-16S	MW-16D	MW-17	MW-17 dup	MW-18S	MW-18D	MW-19	P-1	P-2	P-3	P-4	P-5
PARAMETERS		TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL					
METALS									NA	NA	NA	NA	NA
ALUMINUM	NR	9380 N*	4970 N*	8780 N*	16000 N*	1580 N*	405 N*	830 N*					
ANTIMONY	3 (GV)	ND	ND	ND	ND	ND	78.7	ND					
ARSENIC	25	4.6 B	3.7 B	5.8 B	5.8 B	25.4	1.9 B	17.0					
BARIUM	1,000	276	113 B	213	227	95.8 B	137 B	277					
BERYLLIUM	3 (GV)	ND	ND	ND	ND	ND	ND	ND					
CADMIUM	10	ND	ND	ND	ND	ND	ND	ND					
CALCIUM	NR	229000	251000	315000	298000	154000	278000	168000					
CHROMIUM	50	19.0	32.7	12.2	18.1	4.1 B	4.7 B	3.3 B					
COBALT	NR	13.8 B	11.1 B	20.3 B	21.0 B	12.7 B	12.0 B	ND					
COPPER	200	20.4 B	13.5 B	12.8 B	18.9 B	4.4 B	7.5 B	5.8 B					
IRON	300	11300 *	4580 *	9750 *	14200 *	14700 *	145 *	17600 *					
LEAD	25	480 *	78.0 S*	30.8 *	34.4 *	18.0 S*	197 *	118 *					
MAGNESIUM	35,000 (GV)	106000	52900	155000	130000	71800	93100	63600					
MANGANESE	300	257	98.2	322	319	214	70.8	644					
MERCURY	2	ND	ND	ND	ND	ND	ND	ND					
NICKEL	NR	ND	ND	ND	ND	ND	ND	ND					
POTASSIUM	NR	43000	32900	23600	25300	3870 B	55400	30300					
SELENIUM	10	ND	ND	ND	ND	ND	ND	ND					
SILVER	50	ND	ND	ND	ND	ND	ND	ND					
SODIUM	20,000	190000	490000	556000	569000	111000	436000	155000					
THALLIUM	4 (GV)	ND	ND	ND	ND	ND	ND	ND					
VANADIUM	NR	20.8 B	20.3 B	36.0 B	41.3 B	ND	28.9 B	19.0 B					
ZINC	300	50.8	35.8	55.8	68.9	26.0	38.3	20.5					
CYANIDE	100	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
PESTICIDES		ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA

NOTES:

1. ALL CONCENTRATIONS PRESENTED IN UNITS OF UG/KG (PARTS PER BILLION) UNLESS OTHERWISE NOTED.
2. ND – NOT DETECTED.
3. NA – NOT ANALYZED.
4. B– LABORATORY DATA QUALIFIER INDICATING THE REPORTED VALUE WAS OBTAINED FROM A READING THAT WAS LESS THAN THE CONTRACT REQUIRED DETECTION LIMIT BUT GREATER THAN OR EQUAL TO THE INSTRUMENT DETECTION LIMIT.
5. W– LABORATORY DATA QUALIFIER INDICATING POST DIGESTION SPIKE FOR FURNACE AA IS OUT OF CONTROL LIMITS (85–115%) WHILE SAMPLE ABSORBANCE IS LESSTHAN 50% OF SPIKE ABSORBANCE.
6. N– LABORATORY DATA QUALIFIER INDICATING SPIKED SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS.
7. S– LABORATORY DATA QUALIFIER INDICATING THE REPORTED VALUE WAS DETERMINED BY THE METHOD OF STANDARD ADDITIONS (MSA).
8. * – LABORATORY DATA QUALIFIER INDICATING DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS.
9. NR – NOT REGULATED.
10. GROUNDWATER QUALITY STANDARD OR GUIDANCE VALUE (GV) REFERENCED FROM NYSDEC DIVISION OF WATER T.O.G.S (1.1.1) REVISED NOVEMBER 15, 1991. SHADING INDICATES THE STANDARD OR GUIDANCE VALUE IS EXCEEDED.
11. SEE FIGURE 5 FOR MONITORING WELL SAMPLING LOCATIONS.

VBD:\WKS24\70348–40\SOILBOR.WK1

TABLE XII
SUMMARY OF GROUNDWATER SAMPLING QA/QC RESULTS
FORMER EMERSON STREET LANDFILL MODIFIED EMEDIAL INVESTIGATION

SAMPLE LOCATION	EQUIPMENT BLANK	FILTER BLANK	TRIP BLANK	TRIP BLANK	EQUIPMENT BLANK	FILTER BLANK	TRIP BLANK
SAMPLE DATE	2 JUL 93	2 JUL 93	2 JUL 93	7 JUL 93	8 JUL 93	9 JUL 93	9 JUL 93
PARAMETERS							
VOLATILE ORGANICS	ND	NA	ND	ND	ND	NA	ND
SEMI-VOLATILE ORGANICS	NA	NA	NA	NA		NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE					1 JB		
PESTICIDES	NA	NA	NA	NA	ND	NA	NA
TOTAL METALS	NA	NA	NA	NA		NA	NA
CALCIUM					617 B		
IRON					32.8 B		
LEAD					4.1		
MAGNESIUM					197 B		
MANGANESE					2.7 B		
SODIUM					1140 B		
SOLUBLE METALS	NA		NA	NA		NA	NA
ALUMINUM		74.9 B			ND		
BARIUM		2.4 B			ND		
CALCIUM		350 B			ND		
COPPER		6.4 B			ND		
IRON		19.4 B			20.4 B		
LEAD		6.6			ND		
MAGNESIUM		143 B			ND		
MANGANESE		1.9 B			ND		
SODIUM		1520 B			276 B		
VANADIUM		20.2 B			ND		
ZINC		1.54			ND		
CYANIDE	NA	NA	NA	NA	ND	NA	NA

1. ALL CONCENTRATIONS REPORTED IN UNITS OF UG/KG (PARTS PER BILLION).
2. NA – NOT ANALYZED.
3. J – LABORATORY DATA QUALIFIER FOR SEMI-VOLATILE ORGANIC COMPOUNDS INDICATING AN ESTIMATED CONCENTRATION REPORTED BELOW PRACTICAL QUANTITATION LIMIT.
4. B – LABORATORY DATA QUALIFIER FOR METALS INDICATING DETECTED BELOW THE PQL BUT ABOVE THE INSTRUMENT DETECTION LIMIT.
5. ND – NOT DETECTED.

VBD:gmc\wks24\70352-47\tabxii

VOC Groundwater Sample Results

Table 12 of November 2001 LaBella & Geomatrix Report

TABLE 12

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Former Emerson Street Landfill
Rochester, New York

Constituent[1]	Water Quality Standard[2]	GMX-MW-1 07/05/2000	GMX-MW-2 07/05/2000	GMX-MW-2 DUP 07/05/2000	GMX-MW-3 07/05/2000	GMX-MW-4 07/05/2000	GMX-MW-5 11/13/2000	GMX-MW-6S 11/13/2000	GMX-MW-6D 11/13/2000	GW-5 07/07/2000	MW-14D 07/05/2000	MW-14S 07/05/2000	MW-16S 07/07/2000	P-1 07/06/2000
Volatile Organic Compounds, ug/L						ND				ND	ND	ND	ND	
Vinyl Chloride	2	32			2100									3700 J
Chloroethane	5				150		5 J							
Acetone	50	12							1400 J					
Carbon Disulfide	--						9 J							
1,1-Dichloroethene	5													59
trans-1,2-Dichloroethene	5				28									93
1,1-Dichloroethane	5		21	22			6 J							220
cis-1,2-Dichloroethene	5	85			3100			3 J						43000
1,1,1-Trichloroethane	5		23	24	30									
Benzene	1				34				1200					
Trichloroethene	5													650
Toluene	5				59				890					
Tetrachloroethene	5													6700
Chlorobenzene	5													
Ethylbenzene	5				13				35 J					
p-Xylene/m-Xylene	5				70				260					
o-Xylene	5				39				75 J					
Total VOCs		129	23	46	5,623	ND	20	3	3,860	ND	ND	ND	ND	54,422

Notes:

1. Sample analysis conducted in accordance with ASP Protocols. Volatile organic compounds by ASP-95-1.
2. Water quality standards for Class GA groundwater from NYSDEC's "Ambient Water Qualtiy Standards and Guidance Values and Groudnwater Effluent Limitations", reissued June 1998.
3. Sample locations provided on Figure 12.
4. Data qualifications reflect 10% data validation performed by Data Validation Services.

ug/l = micrograms per liter.
ND or blank cells = none detected
"--" = value does not exist.
J = result estimated below the quantitation limit

VOC & SVOC Groundwater Sample Results

Table 4-7 of February 1990 RECRA Environmental, Inc. Report

TABLE 4-7

SUMMARY OF ORGANIC COMPOUNDS DETECTED
IN GROUNDWATER SAMPLES
(ug/l)
EMERSON STREET LANDFILL
#828023

COMPOUND	WELL NUMBER												
Volatile Organics	GW1	GW2	GW2 (RE)	GW3	GW4	GW5	GW6	GW7	GW8D	GW8S	GW9	GW10D	GW10S
Methylene Chloride		9B	9B						7B	9B			
Acetone		88	84										
Benzene		5	5		4J								
Toluene		2BJ	2BJ						0.6BJ	0.7BJ		0.8J	
Total Xylenes		4J	3J		2J								
Chloroethane					6J								
1,1-Dichloroethane					4J						7		
Chlorobenzene					0.8J								
Vinyl Chloride								17			22		
1,2-Dichloroethane (Tot.)								190			190		
Trichloroethene								90			35		
1,1-Dichloroethene											11		
Semi-Volatile Organics													
Di-n-butylphthalate	4J	2J					4J		1J	1J			
Butylbenzylphthalate	1J									0.2J			
bis(2-ethylhexyl)phthalate	21	14		3J			25		12	10	7BJ	3J	4J
1,4-Dichlorobenzene													
Diethylphthalate							0.6J						
Di-n-octyl phthalate										0.09J			
Pyrene													

B = Analyte was found in the associated blank as well as in the sample.
J = Indicates an estimated value.

Storm Water VOC Sample Results

Table III of January 1994 H&A Report

FILE NO. 70352-47

H & A OF NEW YORK
ROCHESTER, NEW YORK

TABLE III
SUMMARY OF STORM WATER/UTILITY WATER SAMPLING ANALYTICAL RESULTS
-FORMER EMERSON STREET LANDFILL MODIFIED REMEDIAL INVESTIGATION

SAMPLE IDENTIFICATION	COM-C-113	COM-C-114	COM-E-112	STW-E-109	STW-E-110	STW-E-110*	STW-F-111A
SAMPLE DATE	5 OCT 92	5 OCT 92	5 OCT 92	5 OCT 92	2 OCT 92	2 OCT 92	2 OCT 92
PARAMETERS						DUP-2	
VOLATILE ORGANICS							
METHYLENE CHLORIDE	190 BJ	27 BJ	4 BJ	3 BJ	8 BJY	ND	ND
1,1,1-TRICHLOROETHANE	3000	260	3 J	ND	2 J	4 J	15 Y
TOLUENE	110 J	24 J	ND	ND	2 J	3 J	2 J
ETHYLBENZENE	50 J	ND	ND	ND	ND	ND	ND
ACETONE	ND	350	95	ND	ND	59	ND
XYLENE (TOTAL)	ND	14 JY	ND	ND	ND	ND	ND
CHLOROFORM	ND	ND	3 J	ND	ND	ND	ND
2-BUTANONE	ND	ND	7 J	ND	ND	ND	ND
BROMODICHLOROMETHANE	ND	ND	2 J	ND	ND	ND	ND
VINYL CHLORIDE	ND	ND	ND	ND	44 Y	77 Y	64 Y
1,1-DICHLOROETHANE	ND	ND	ND	ND	15	26	41
1,2-DICHLOROETHENE (TOTAL)	ND	ND	ND	ND	39	65	58 Y
1,1,2-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	2 J
BROMOFORM	ND	ND	ND	ND	ND	ND	3 BJ
4-METHYL-2-PENTANONE	ND	ND	ND	ND	ND	ND	12
2-HEXANONE	ND	ND	ND	ND	ND	ND	11
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	ND	ND	ND	3 J
DIBROMOCHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND

NOTES:

1. ALL CONCENTRATIONS PRESENTED IN UNITS OF UG/KG (PARTS PER BILLION) UNLESS OTHERWISE NOTED.
2. J - LABORATORY DATA QUALIFIER INDICATING AN ESTIMATED CONCENTRATION REPORTED BELOW PRACTICAL QUANTITATION LIMIT.
3. B - PARAMETER DETECTED IN THE LABORATORY METHOD BLANK.
4. Y - DATA WAS MANUALLY INTEGRATED ON THE HP DATA SYSTEM.
5. ND - NOT DETECTED.
6. SEE FIGURE 4 FOR STORM WATER/UTILITY WATER SAMPLING LOCATIONS.

VBD:\WKS24\70352-47\TABLEIII.WK1

FILE NO. 70352-47

H & A OF NEW YORK
ROCHESTER, NEW YORK

TABLE III
SUMMARY OF STORM WATER/UTILITY WATER SAMPLING ANALYTICAL RESULTS
FORMER EMERSON STREET LANDFILL MODIFIED REMEDIAL INVESTIGATION

SAMPLE LOCATION	STW-F-111A*	STW-F-115	STW-F-116	STW-LE-106	STW-LE-107A	STW-LX-103	STW-M-105
SAMPLE DATE	2 OCT 92	2 OCT 92	5 OCT 92	2 OCT 92	2 OCT 92	2 OCT 92	2 OCT 92
PARAMETERS	DUP-1						
VOLATILE ORGANICS							
METHYLENE CHLORIDE	ND	ND	3 BJ	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	15	ND	ND	ND	ND	ND	3 J
TOLUENE	2 J	ND	ND	ND	4 BJ	ND	ND
ETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND
ACETONE	ND	14	ND	14	ND	13	28
XYLENE (TOTAL)	ND	ND	ND	2 JY	1 JY	ND	ND
CHLOROFORM	ND	ND	ND	ND	ND	ND	ND
2-BUTANONE	ND	ND	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	64 Y	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	42	ND	1 J	ND	ND	ND	17 J
1,2-DICHLOROETHENE (TOTAL)	60 Y	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	ND	ND	ND	3 J	ND	ND	ND
BROMOFORM	ND	ND	ND	4 BJ	ND	ND	ND
4-METHYL-2-PENTANONE	ND	ND	ND	ND	ND	ND	ND
2-HEXANONE	ND	ND	ND	8 J	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	ND	ND	ND	2 J	ND	ND	ND

NOTES:

1. ALL CONCENTRATIONS PRESENTED IN UNITS OF UG/KG (PARTS PER BILLION) UNLESS OTHERWISE NOTED.
2. J – LABORATORY DATA QUALIFIER INDICATING AN ESTIMATED CONCENTRATION REPORTED BELOW PRACTICAL QUANTITATION LIMIT.
3. B – PARAMETER DETECTED IN THE LABORATORY METHOD BLANK.
4. Y – DATA WAS MANUALLY INTEGRATED ON THE HP DATA SYSTEM.
5. ND – NOT DETECTED.
6. SEE FIGURE 4 FOR STORM WATER/UTILITY WATER SAMPLING LOCATIONS.

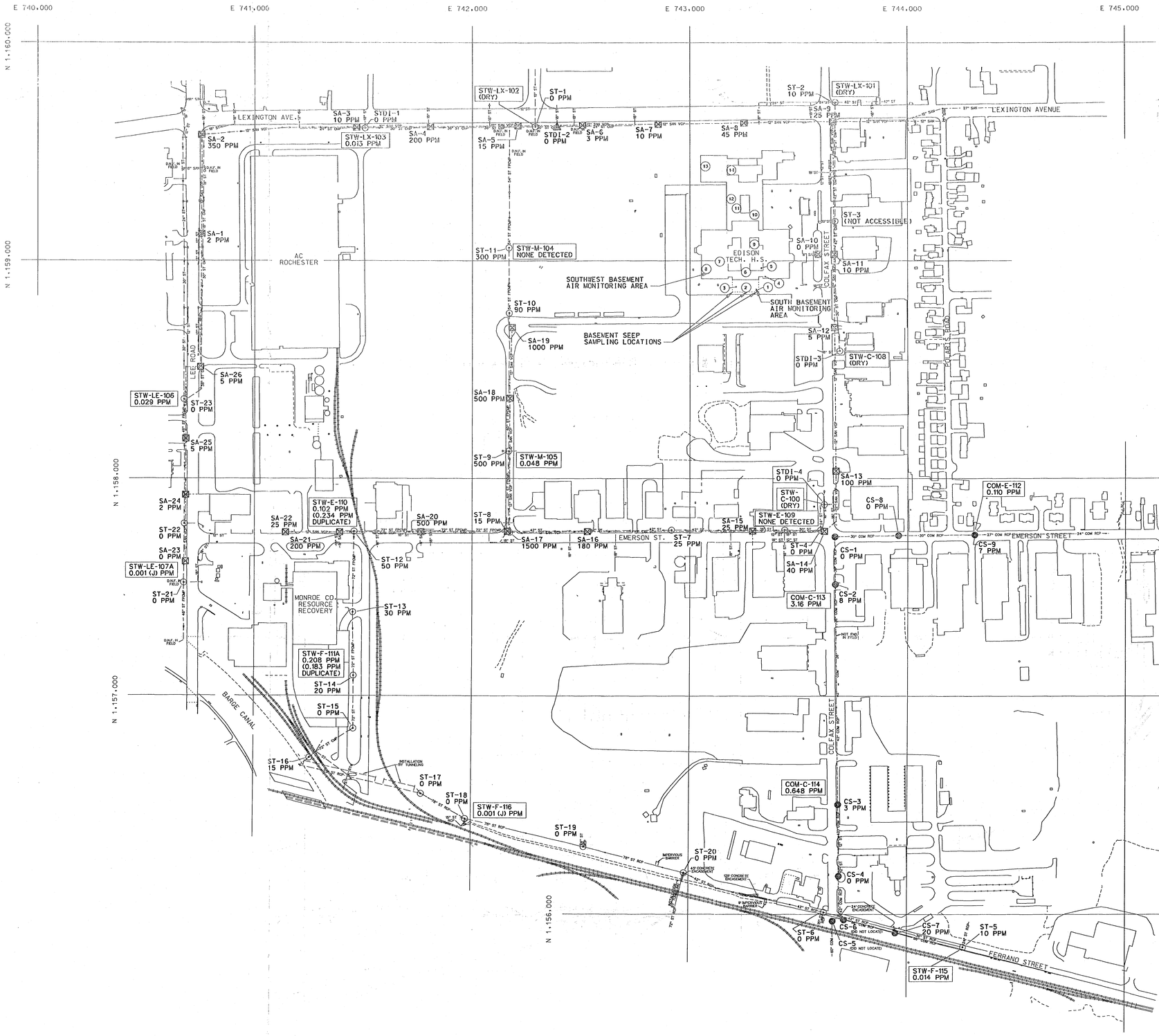
H & A OF NEW YORK
ROCHESTER, NEW YORK

TABLE III
SUMMARY OF STORM WATER/UTILITY WATER SAMPLING ANALYTICAL RESULTS
FORMER EMERSON STREET LANDFILL MODIFIED EMEDIAL INVESTIGATION

SAMPLE LOCATION	STW-M-104	STW-M-105	STW-P-111A	STW-P-111A*	STW-LE-107A
SAMPLE DATE	2 OCT 92	2 OCT 92	2 OCT 92	2 OCT 92	2 OCT 92
PARAMETERS				DUP-1	
SEMI-VOLATILE ORGANICS					
1,4-DIOXANE	ND	28 J	19 J	20 J	ND
NAPTHALENE	ND	ND	ND	ND	ND
PHENANTHRENE	ND	3 J	ND	ND	ND
FLUORANTHENE	2 J	3 J	ND	ND	ND
PYRENE	2 J	2 J	ND	ND	ND
BENZO(A)ANTHRACENE	ND	2 J	ND	ND	ND
CHRYSENE	1 J	1 J	ND	ND	ND
BENZO(B)FLUORANTHENE	1 J	1 J	ND	ND	ND
BENZO(K)FLUORANTHENE	1 J	1 J	ND	ND	ND
BENZO(A)PYRENE	2 J	1 J	ND	ND	ND
INDENO(1,2,3-CD)PYRENE	1 J	ND	ND	ND	ND
BENZO(G,H)PERYLENE	1 J	ND	ND	ND	ND
METALS					
ALUMINUM	720	66 B	450	58 B	238
ANTIMONY	ND	ND	ND	13 B	ND
ARSENIC	5 B	2 B	1 B	1 B	1 B
BARIUM	449	422	257	254	62 B
CALCIUM	138000	143000	14000	145000	129000
COBALT	ND	ND	ND	2 B	ND
COPPER	65	5 B	4 B	8 B	8 B
IRON	12200	1940	1300	1630	397
LEAD	17.40	ND	ND	ND	1 B
MAGNESIUM	53200	66900	54500	56400	41500
MANGANESE	366	106	102	104	28
POTASSIUM	41700	79000	46500	46800	7770
SELENIUM	1 B	ND	ND	ND	1 B
SILVER	2 B	ND	ND	ND	ND
SODIUM	404000	517000	399000	418000	362000
VANADIUM	7 B	ND	ND	5 B	ND
ZINC	147	23	168	21	41

NOTES:

1. ALL CONCENTRATIONS PRESENTED IN UNITS OF UG/KG (PARTS PER BILLION) UNLESS OTHERWISE NOTED.
2. J – LABORATORY DATA QUALIFIER FOR SEMI-VOLATILE ORGANIC COMPOUNDS INDICATING AN ESTIMATED CONCENTRATION REPORTED BELOW PRACTICAL QUANTITATION LIMIT.
3. B – LABORATORY DATA QUALIFIER FOR METALS.
4. ND – NOT DETECTED.
5. SEE FIGURE 4 FOR STORM WATER/UTILITY WATER SAMPLING LOCATIONS.



LEGEND:

- SANITARY SEWER & SIZE
- STORM SEWER & SIZE
- COMBINED SEWER & SIZE
- CS-1 — COMBINED SEWER MANHOLE LOCATION
- ST-20 — STORM SEWER MANHOLE LOCATION
- SA-15 — SANITARY SEWER MANHOLE LOCATION
- STDI-3 — STORM SEWER DRAIN INLET
- COM-E-112 0.110 PPM — COMBINED SEWER/WATER SAMPLE IDENTIFICATION AND TOTAL VOLATILE ORGANIC COMPOUND RESULT
- STW-M-105 0.048 PPM — STORM SEWER/WATER SAMPLE IDENTIFICATION AND TOTAL VOLATILE ORGANIC COMPOUND RESULTS. (J) INDICATES AN ESTIMATED CONCENTRATION REPORTED BELOW THE PRACTICAL QUANTITATION LIMIT.
- CS-3 3 PPM — ORGANIC VAPOR SURVEY RESULTS
- (7) — "SPOT CHECK" AIR MONITORING LOCATIONS IN THE BASEMENT OF EDISON TECHNICAL AND OCCUPATIONAL EDUCATION CENTER.

NOTES:

1. ORGANIC VAPOR SURVEY PERFORMED BY LABELLA ASSOCIATES, P.C. FROM 30 SEPTEMBER THROUGH 5 OCTOBER 1992. SEE TABLE I FOR ANALYTICAL RESULTS
2. STORM SEWER WATER SAMPLING CONDUCTED BY H&A OF NEW YORK ON 2 AND 5 OCTOBER 1992. SEE TABLE III FOR ANALYTICAL RESULTS.
3. AIR MONITORING IN THE BASEMENT OF EDISON TECHNICAL AND OCCUPATIONAL EDUCATION CENTER WAS PERFORMED BY LABELLA ASSOCIATES P.C. FROM 28 DECEMBER THROUGH 31 DECEMBER, 1992. SEE TABLE IIFOR ANALYTICAL RESULTS.
4. "SPOT CHECK" AIR MONITORING IN THE BASEMENT OF EDISON TECHNICAL AND OCCUPATIONAL EDUCATION CENTER WAS PERFORMED BY LABELLA ASSOCIATES, P.C. ON 31 DECEMBER 1992.
5. COMPOSITE WATER AND SOIL/SEDIMENT SAMPLES WERE OBTAINED FROM SEEP AREAS ALONG THE SOUTH WALL OF THE BASEMENT OF EDISON TECHNICAL AND OCCUPATIONAL EDUCATION CENTER BY H&A OF NEW YORK PERSONNEL ON 31 DECEMBER 1992. SEE TABLE IV FOR ANALYTICAL RESULTS.

H & A OF NEW YORK
Geotechnical Engineers & Environmental Consultants

FORMER EMERSON STREET LANDFILL
MODIFIED REMEDIAL INVESTIGATION
ROCHESTER, NEW YORK

SEWER MANHOLE, STORM WATER, AND EDISON TECHNICAL & OCCUPATIONAL EDUCATION CENTER BASEMENT SAMPLING LOCATIONS

SCALE: 1" = 200'

JANUARY 1994

FILENAME: SEWER .DGN

FIGURE 4

FILE No. 70352-47

Storm Water VOC Sample Results

Table 4 of November 2001 LaBella & Geomatrix Report

TABLE 4

SUMMARY OF ANALYTICAL RESULTS FOR STORM WATER

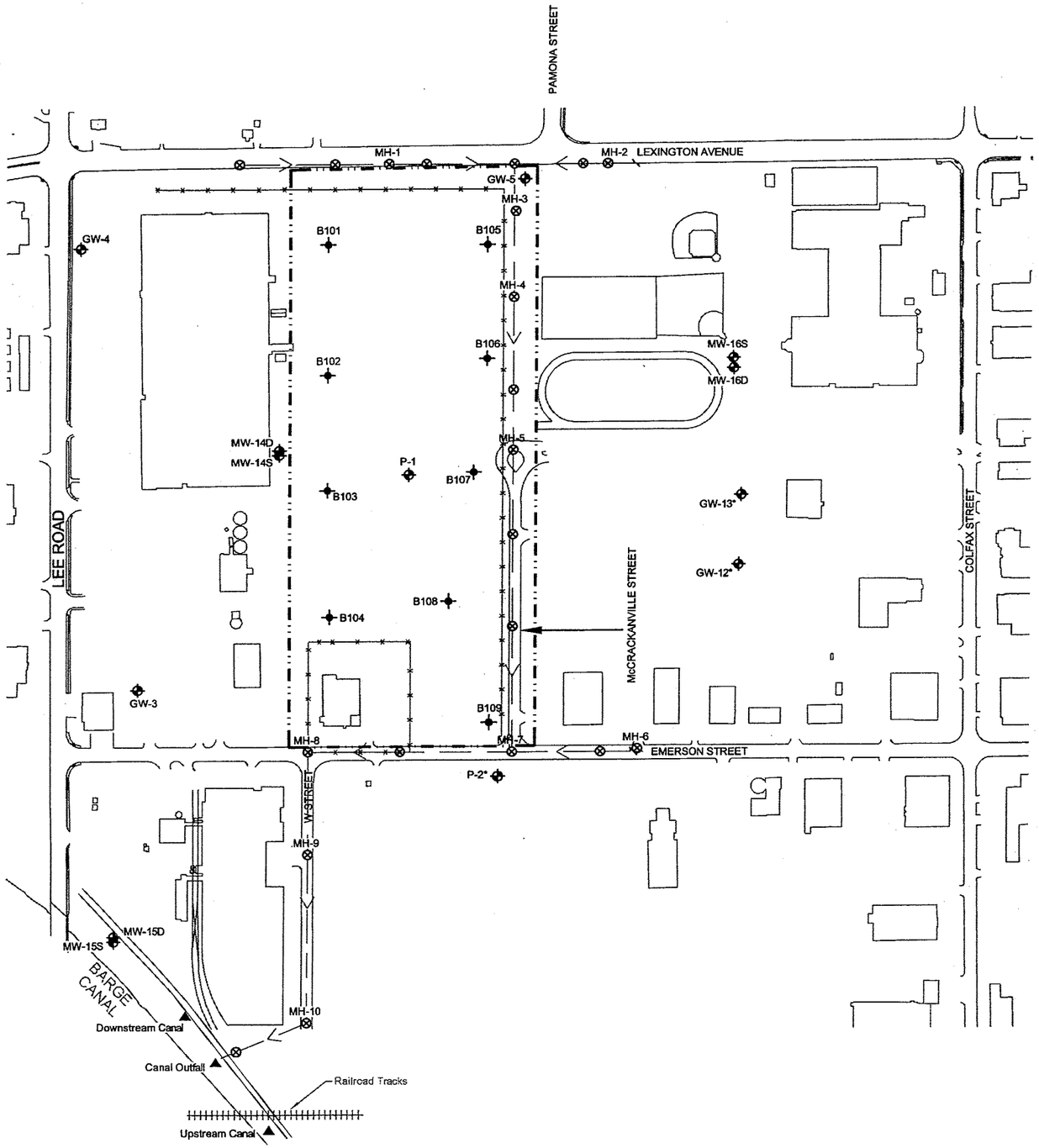
Former Emerson Street Landfill
Rochester, New York

Constituent[1]	Water Quality Standard[2]	MH-1 5/5/2000	MH-2 5/4/2000	MH-3 5/4/2000	MH-4 5/5/2000	MH-5 5/3/2000	MH-6 5/3/2000	MH-7 5/3/2000	MH-7 11/13/2000	MH-8 5/3/2000	MH-8 11/13/2000	MH-8 DUP 11/13/2000	MH-9 7/7/2000	MH-9 11/13/2000	MH-10 11/13/2000	D/S CANAL 11/13/2000	CANAL OUTFALL 11/13/2000	U/S CANAL 11/13/2000
Water:																ND	ND	ND
Volatile Organic Compounds, ug/L		DRY	DRY	ND			ND		ND									
Vinyl Chloride	2									3.2	26	12	22	19	11			
Chloroethane	5										5 J	3 J		6 J	4 J			
1,1-Dichloroethane	5				1.6					1.7	14	7 J	14	21	15			
cis-1,2-Dichloroethene	5									5.4	34	14	41	27	19			
1,1,1-Trichloroethane	5				1.6									4 J				
p-Xylene/m-Xylene	5				1.2	4.1		1										
Total VOCs					4.4	4.1		1		10.3	79	36	77	77	49			
Ambient Air:																		
Headspace Sample, mg/cu.m.	--	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

1. Samples MH-1 through MH-8 analyzed in mobile laboratory (water and headspace sample, May 3-5, 2000). Other sample analysis conducted in accordance with ASP Protocols. Volatile organic compounds by ASP-95-1.
2. Water quality standards for Class GA groundwater from NYSDEC's "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations", reissued June 1998.
3. Sample locations provided on Figure 13.
4. Data qualifications reflect 10% data validation performed by Data Validation Services.

ug/L = micrograms per liter.
mg/cu.m. = milligrams per cubic meter
ND or blank cells = none detected
NA = not analyzed
DRY = storm sewer was dry at the time of sampling, therefore no water sample was collected.
"--" = value does not exist.
J = result estimated below the quantitation limit



EXPLANATION

- Monitoring well location
- Boring location (H&A)
- Storm sewer manhole location
- MH-6 Storm sewer water sample location
- Canal water sample collected November 2000
- Site boundary
- Fence line

NOTE: * Indicates well was destroyed during parcel development or unusable.

N

0 400 ft.

Approximate Scale

STORM SEWER WATER AND CANAL SAMPLE LOCATIONS

Former Emerson Street Landfill RI
Rochester, New York

GEOMATRIX	Project No. 005976	Figure 13

005976-F13.DWG 3/14/2001

VOC Groundwater Sample Results

2001 Day Environmental Groundwater Sample Data Package
for DAY-MW-1 & DAY-MW-2

Project No.

Project Title
500 LEE ROAD
ROCHESTER, NY

DRAFT

Drawing Title
Site Plan with Approximate Locations of Monitoring Wells, MW-1 and MW-2

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14614-1008
New York, New York 10016-0710

DESIGNED BY	DATE
TWW	05-2011
DRAWN BY	DATE DRAWN
CPS	05-2011
SCALE	DATE ISSUED
AS NOTED	05-06-2011

Day Environmental, Inc.
2144 Brighton-Henrietta T.L. Rd.
Rochester, New York 14623
(716) 292-1090

BORING NUMBER: MW-1

Project: 500 Lee Road, Rochester, New York
DAY Representative: J. Joseph Dorety
Drilling Contractor: Nothnagle Drilling
Drilling Rig: CME55
Sampling Method: Direct Push
Completion Method: 2" PVC Monitoring Well

Project No: 2531S-00
Boring Location: See Site Plan
Ground Surface Elevation: NA
Start Date: 12/28/00
Borehole Diameter: 3 inches
Water Level: Not encountered

Datum: NA
Completion Date: 12/29/00
Borehole Depth: 23.5 feet

Depth (feet)	Blows per 0.5'	Number	Depth (feet)	% Recovery	N-Value or RQD %	Peak PID Reading (ppm)	Well Installation Log	Sample Description
1						0.0		Gray Sand, Gravel, Silt, Clay, Cinders, damp (FILL).
2	NA	S-1	0-4	80	NA	0.0		
3						0.0		Brown Silty SAND, some Gravel, trace Clay, damp.
4						0.0		
5						0.0		
6		S-2	4-8	75		0.0		... wet 5.0'-6.0'.
7						0.0		
8						0.0		
9						0.0		... Rock fragments.
10		S-3	8-12	60		0.0		
11						0.0		
12		S-4	12-12.1	5		0.0		Refusal at 12.1' (Sampler).
13								Auger refusal at 13.5' (1440)
14								Temp casing set at 1505 casing » 15'5" with 20½" stickup
15								
16		C-1	13.5-19	58				First run very broken. Horizontal and vertical fractures, angular pieces, silt in fractures.
17								
18								Begin losing water at approximately 18.3'.
19								
20								
21		C-2	19-23.5	48				
22								
23								Petroleum like sheen, approximately 490 gallons of water lost.
24								Bottom at 23.5'

File: 2531MW01.log

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Laboratory Analysis Report For Non-Potable Water

Client:	Day Environmental	**Lab Project No.:**	01-0120
Client Job Site:	500 Lee Rd. Rochester	**Lab Sample No.:**	1040
Client Job No.:	2531S-00	**Sample Type:**	Water
Field Location:	MW-1	**Date Sampled:**	01/04/01
		Date Received:	01/04/01
Field ID No.:	2531S-MW01	**Date Analyzed:**	01/05/01

VOLATILE HALOCARBONS	RESULTS (ug/L)	VOLATILE AROMATICS	RESULTS (ug/L)
Bromodichloromethane	ND< 2.00	Benzene	ND< 0.700
Bromomethane	ND< 2.00	Chlorobenzene	ND< 2.00
Bromoform	ND< 2.00	Ethylbenzene	ND< 2.00
Carbon tetrachloride	ND< 2.00	Toluene	ND< 2.00
Chloroethane	ND< 2.00	m,p - Xylene	ND< 2.00
Chloromethane	ND< 2.00	o - Xylene	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Styrene	ND< 2.00
Chloroform	ND< 2.00		
Dibromochloromethane	ND< 2.00		
1,1-Dichloroethane	ND< 2.00		
1,2-Dichloroethane	ND< 2.00		
1,1-Dichloroethene	ND< 2.00		
cis-1,2-Dichloroethene	ND< 2.00		
trans-1,2-Dichloroethene	ND< 2.00		
1,2-Dichloropropane	ND< 2.00		
cis-1,3-Dichloropropene	ND< 2.00	**Ketones**	
trans-1,3-Dichloropropene	ND< 2.00	Acetone	ND< 10.0
Methylene chloride	ND< 5.00	Vinyl acetate	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00	2-Butanone	ND< 5.00
Tetrachloroethene	ND< 2.00	4-Methyl-2-pentanone	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00	2-Hexanone	ND< 5.00
1,1,2-Trichloroethane	ND< 2.00		
Trichloroethene	ND< 2.00	Carbon disulfide	ND< 2.00
Vinyl Chloride	ND< 2.00		

Analytical Method: EPA 8260

ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By _____
Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water (Additional EPA 8260 Compounds)

Client:	Day Environmental	**Lab Project No.:**	01-0120
		Lab Sample No.:	1040
Client Job Site:	500 Lee Rd. Rochester		
Client Job No.:	2531S-00	**Sample Type:**	Water
		Date Sampled:	01/04/01
Field Location:	MW-1	**Date Received:**	01/04/01
Field ID No.:	2531S-MW01	**Date Analyzed:**	01/05/01

VOLATILE AROMATICS	RESULTS (ug/L)
Methyl tert-Butyl Ether	ND< 2.00
Isopropylbenzene	ND< 2.00
n-Propylbenzene	ND< 2.00
1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00
1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00
p-Isopropyltoluene	ND< 2.00
n-Butylbenzene	ND< 2.00
Naphthalene	ND< 5.00

Analytical Method: EPA 8260 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director

Day Environmental, Inc.
2144 Brighton-Henrietta T.L. Rd.
Rochester, New York 14623
(716) 292-1090

BORING NUMBER: MW-2

Project: 500 Lee Road, Rochester, New York
DAY Representative: J. Joseph Dorety
Drilling Contractor: Nothnagle Drilling
Drilling Rig: CME55
Sampling Method: Direct Push
Completion Method: 2" PVC Monitoring Well

Project No: 2531S-00
Boring Location: See Site Plan
Ground Surface Elevation: NA
Start Date: 12/29/00
Borehole Diameter: 3 inches
Water Level: Not encountered

Datum: NA
Completion Date: 1/2/01
Borehole Depth: 17.7 feet

Depth (feet)	Blows per 0.5'	Number	Depth (feet)	% Recovery	N-Value or RQD %	Peak PID Reading (ppm)	Well Installation Log	Sample Description
1						0.0		Dark gray Sand, Silt, Gravel, Roots, damp (FILL).
2	NA	S-1	0-4	70	NA	0.0		Reddish brown Silty SAND, some Gravel, damp.
3						0.0		
4						0.0		
5		S-2	4-6.9	80		0.0		... wet 5.0'-6.0'.
6						0.0		
7						0.0		... Rock fragment.
			6.9-7.7	-		-		Sampler Refusal at 6.9'. Auger refusal at 7.7'.
8								Gray DOLOMITE. Numerous horizontal and vertical fractures from 7.7'-8.5'. Pits and Vugs from 8.5'-9' imbedded planes of Silt and iron staining.
9								
10		C-1	7.7-12.7	87	58			Approximately 25 gallons of water lost during core.
11								
12								
13								
14								
15		C-2	12.7-17.7	98	60			Numerous pits from 13.3' to 17.7'. Vugs from 14.3' to 14.9' with soft white mineral deposits.
16								
17								Collapse
18								Bottom at 17.7'
19								
20								

File: 2531MW02.log

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Laboratory Analysis Report For Non-Potable Water

Client:	Day Environmental	**Lab Project No.:**	01-0120
Client Job Site:	500 Lee Rd. Rochester	**Lab Sample No.:**	1041
Client Job No.:	2531S-00	**Sample Type:**	Water
Field Location:	MW-2	**Date Sampled:**	01/04/01
		Date Received:	01/04/01
Field ID No.:	2531S-MW02	**Date Analyzed:**	01/05/01

VOLATILE HALOCARBONS	RESULTS (ug/L)	VOLATILE AROMATICS	RESULTS (ug/L)
Bromodichloromethane	ND< 2.00	Benzene	ND< 0.700
Bromomethane	ND< 2.00	Chlorobenzene	ND< 2.00
Bromoform	ND< 2.00	Ethylbenzene	ND< 2.00
Carbon tetrachloride	ND< 2.00	Toluene	ND< 2.00
Chloroethane	ND< 2.00	m,p - Xylene	ND< 2.00
Chloromethane	ND< 2.00	o - Xylene	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Styrene	ND< 2.00
Chloroform	ND< 2.00		
Dibromochloromethane	ND< 2.00		
1,1-Dichloroethane	ND< 2.00		
1,2-Dichloroethane	ND< 2.00		
1,1-Dichloroethene	ND< 2.00		
cis-1,2-Dichloroethene	ND< 2.00		
trans-1,2-Dichloroethene	ND< 2.00		
1,2-Dichloropropane	ND< 2.00		
cis-1,3-Dichloropropene	ND< 2.00	Ketones	
trans-1,3-Dichloropropene	ND< 2.00	Acetone	ND< 10.0
Methylene chloride	ND< 5.00	Vinyl acetate	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00	2-Butanone	ND< 5.00
Tetrachloroethene	ND< 2.00	4-Methyl-2-pentanone	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00	2-Hexanone	ND< 5.00
1,1,2-Trichloroethane	ND< 2.00		
Trichloroethene	ND< 2.00	Carbon disulfide	ND< 2.00
Vinyl Chloride	ND< 2.00		

Analytical Method: EPA 8260 ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By _____
Laboratory Director

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SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water
(Additional EPA 8260 Compounds)

Client:	Day Environmental	**Lab Project No.:**	01-0120
		Lab Sample No.:	1041
Client Job Site:	500 Lee Rd.		
	Rochester	**Sample Type:**	Water
Client Job No.:	2531S-00		
		Date Sampled:	01/04/01
Field Location:	MW-2	**Date Received:**	01/04/01
Field ID No.:	2531S-MW02	**Date Analyzed:**	01/05/01

VOLATILE AROMATICS	RESULTS (ug/L)
Methyl tert-Butyl Ether	2.54
Isopropylbenzene	ND< 2.00
n-Propylbenzene	ND< 2.00
1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00
1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00
p-Isopropyltoluene	ND< 2.00
n-Butylbenzene	ND< 2.00
Naphthalene	ND< 5.00

Analytical Method: EPA 8260 NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____
Laboratory Director