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June 18, 2013

AFRL/RRS/RIOC
150 Electronic Parkway
Rome, New York 13441-4516
Attn: Jaclyn Karam

Re: Verona Monitored Natural Attenuation Project
May 2013 Quarterly Sampling- Building 1253
Verona Research Facility-NYSDEC Site #663046
Town of Verona, Oneida County, New York

Dear Ms. Karam:

The purpose of this letter is to summarize the results of the ongoing Monitored Natural Attenuation being conducted at the Verona Research Facility. The most recent groundwater sampling event was conducted at Building 1253 and took place on May 29, 2013. Groundwater sampling at Building 1231 was temporarily discontinued for this monitoring event as a result of the ongoing Environmental Baseline Survey (EBS) at the Verona site that revealed an additional VOC contamination source at Building 1231.

The results of the analytical data for the groundwater samples at Building 1253 indicate that no volatile organic compounds (VOCs) were detected during the May 2013 sampling. Lu Engineers has prepared the attached supporting data documenting the results of the sampling event. Analytical results have been tabulated and are attached to this letter, as well as groundwater field parameters recorded during the sampling event. Also attached please find the May 2013 groundwater contour mapping, VOC data in mapped format, trend analyses for site specific contaminants, and the laboratory analytical report. A site location map and sample location map are also included for your reference.

AFRL should continue the observations of conditions of Building 1253 to verify the continued natural attenuation of TCE and its daughter compounds, and should continue to evaluate the possibility of a source area at Building 1253.

Please call or email with any comments or questions.

Regards,

Bryan Bancroft
Natural Resource Group Leader
enclosures

175 Sullys Trail, Suite 202 | Pittsford, NY 14534 | Ph. 585.385.7417 | Fx. 585.385.3741

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Location ID MW-1253E

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																							3.4															
Dec-06																						4.3																
Apr-07																																						
Jun-07																																						
Oct-07																						3.1															7.8	
Dec-07						1.5																																
Mar-08																																						
Jun-08																																						
Sep-08							8.9															3							1.4								5.2	
Dec-08																																						
Mar-09																																						
Jun-09																																						
Sep-09							6.3															10															25	
Dec-09																																						
Mar-10																																						
Jun-10																						0.84																
Aug-10																						2.7															1.7	
Nov-10																																						
Feb-11																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Oct-11		
Nov-11		
Jan-12		
Apr-12		
Jul-12	2.52	5.23
Feb-13		
May-13		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Location ID MW-1253F

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																																						
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																																						
Dec-07																																						
Mar-08																																						
Jun-08																																						
Sep-08																														1.3								
Dec-08																																						
Mar-09																														1.1								
Jun-09																																						
Sep-09																																						
Dec-09																																						
Mar-10																													15									
Jun-10																																						
Aug-10																																						
Nov-10																																						
Feb-11																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Oct-11
Nov-11
Jan-12
Apr-12
Jul-12
Feb-13
May-13

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Location ID MW-1253G

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																																						
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																																						
Dec-07																																						
Mar-08																																						
Jun-08																																						
Sep-08																														1.1								
Dec-08																																						
Mar-09																																						
Jun-09																																						
Sep-09																																						
Dec-09																													0.7									
Mar-10																																						
Jun-10																																						
Aug-10																																						
Nov-10																																						
Feb-11																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Oct-11
Nov-11
Jan-12
Apr-12
Jul-12
Feb-13
May-13

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Location ID MW-1253H

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																			6				
Aug-02																																						
Nov-02																																			6				26
Mar-03																																						
Jun-03												11																										
Sep-03																																						
Dec-03																																						
Mar-04																																						16
Sep-06				3.8																																		27
Dec-06																																						23
Apr-07																																						22
Jun-07																																						26
Oct-07	6			4.2																																		
Dec-07	1.8			2.6																																		19
Mar-08	1.7			2.8																																		27
Jun-08																																						
Sep-08																																						1.3
Dec-08																																						
Mar-09																																						4.9
Jun-09				0.91																																		1.4
Sep-09																																						2
Dec-09																																						1.4
Mar-10				0.69																13																		4.3
Jun-10				0.67																																		1.8
Aug-10																																						
Nov-10				0.56																				0.56														1.3
Feb-11																																						5.1

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Oct-11	
Nov-11	
Jan-12	
Apr-12	
Jul-12	2.82
Feb-13	
May-13	

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Location ID MW-1253I

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																		33		25		
Aug-02																																						
Nov-02																																		9				
Mar-03																																						
Jun-03																																				12		
Sep-03																								9.8												17		
Dec-03																																						
Mar-04																																				7.1		
Sep-06																																				5		
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																								1.7										1.5		1.3		
Dec-07																								2										1.5		2.1		
Mar-08																																		1.3		1.3		
Jun-08																								1.7										1		2.5		
Sep-08																								3									1	1.8		3.2		
Dec-08																																				1.2		
Mar-09																																						
Jun-09																								0.9										0.6		1.5		
Sep-09																								2												2		
Dec-09																							0.71	1.6										1.4		1.7		
Mar-10																																				0.74		
Jun-10																								0.77												1.4		
Aug-10																								1.8												2.5		
Nov-10																								1.8										0.85		1.4		
Feb-11																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through May 2013

Oct-11				
Nov-11				
Jan-12				
Apr-12				
Jul-12	2.29			
Feb-13	4.8	6.4	2.4	
May-13				

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters May 2002 - May 2013

Location ID MW-1253E

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.34	14.4	448.36	445.02	9.4	0.711	6.82	55		2.53	0.02
Aug-02	6.18	14.4	448.36	442.18	15.9	0.773	6.86	8		1.41	0.03
Nov-02	3.94	14.71	448.36	444.42	11.9	0.523	7.2	93.9	1300.8	0.01	0.34
Mar-03	3.25	14.71	448.36	445.11	5.91	0.439	7.44	91.6	1277.4	0.1	0.34
Jun-03	3.94	14.71	448.36	444.42	11.18	0.573	7.08	86.4	1300.4	1.47	0.38
Sep-03	4.91	14.71	448.36	443.45	14.45	0.68	7.28	65.6	1210.5	15.18	0.042
Dec-03	3.04	14.71	448.36	445.32	7.32	0.543	7.52	137.2	1279.8	12.5	0.4
Mar-04	3.45	14.71	448.36	444.91	4.97	0.49	7.12	151.3	393.1	5.83	0.39
Sep-06	4.7	14.63	448.24	443.54	15.59	0.76	6.9	-60	73	0.8	
Dec-06	3.46	14.65	448.24	444.78	9	0.689	7.32	-39	9	2.9	
Apr-07	3.45	14.6	448.24	444.79	5.78	0.743	7.34	0	5.8	0	0
Jun-07	6	14.52	448.24	442.24	11.3	0.693	7.11	-31	4.7	4.27	0
Oct-07	5.55	14.85	448.24	442.69	15	87	7.9	-97	22	3.6	0
Dec-07	3.58	14.85	448.24	444.66	6.7	0.65	6.8	292	7.8	3.78	0
Mar-08	3.67	14.65	448.24	444.57	6.1	5.39	7.4	54	7.9	1.79	0.03
Jun-08	5.29	14.65	448.24	442.95	14.1	0.656	7.3	-54	25	6.2	0
Sep-08	5.34	14.65	448.24	442.9	15	0.82	7	-114	82.4	2.4	0
Dec-08	3.02	14.65	448.24	445.22	7	0.9	6.8	81	37	1.7	0
Mar-09	3.82	14.65	448.24	444.42	6.1	0.57	7.1	55	4.1	0.53	0
Jun-09	4.84	14.65	448.24	442.75		0.3	7.84	21	38.4	0.45	0
Sep-09	4.18	14.65	448.24	444.06	13.9	0.337	7.67	-88	0	2.42	0
Dec-09	3.53	14.65	448.24	444.71	4	0.616	7.11	35	1.4	0.74	0
Mar-10	3.31	14.65	448.24	444.93	6.4	0.745	6.9	25	0	10.32	0
Jun-10	3.58	14.65	448.24	444.66	15	0.641	6.73	-16	72.2	10.43	0

Groundwater Field Parameters May 2002 - May 2013

Aug-10	3.34	14.65	448.24	444.9	17.2	0.66	6.83	-58	0	1.14	0
Nov-10	3.06	14.65	448.24	445.18	10.33	0.665	7.23	93	102		0.43
Feb-11	3.47	14.65	448.24	444.77	4.27	0.678	7.08	-14		0.75	0
Oct-11	3.02	14.65	448.24	445.22	12.3	0.681	7.06	-4	7.6	0.18	0
Nov-11	3.48	14.65	448.24	444.76	11.7	0.662	7.21	20	0	3.04	0
Jan-12	3.17	14.65	448.24	445.07	5.8	0.643	7.16	4		1.26	
Apr-12	3.19	14.68	448.24	445.05	7.9	0.645	7.14	-41		0.59	
Jul-12	7.84	14.65	448.24	440.4	14.2	0.7	7.08	-26.5		1.13	
Feb-13	3.82	14.65	448.24	444.42	5.4	0.679	7.11	132.6		1.27	
May-13	3.36	14.65	448.24	444.88	11.5	0.585	7.23	-9		1.1	

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters May 2002 - May 2013

Location ID MW-1253F

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.04	13.68	447.76	444.72	9.2	0.773	6.73	104		4.8	0.03
Aug-02	6.36	13.68	447.76	441.4	16.3	0.906	6.59	37		1.17	0.03
Nov-02	3.92	14.1	447.76	443.84	11.3	0.668	7.03	210.3	247.9	0	0.45
Mar-03	3.33	14.1	447.76	444.43	4.89	0.395	7.53	119.3	124.1	0.01	0.31
Jun-03	4.08	14.1	447.76	443.68	12.29	0.61	7	109.2	223.7	6.09	0.4
Sep-03	5.12	14.1	447.76	442.64	14.69	0.785	7.05	234.1	24.1	17.82	0.049
Dec-03	3.92	14.1	447.76	443.84	6.08	0.531	7.4	147.6	120.9	15.1	0.41
Mar-04	3.49	14.1	447.76	444.27	4.53	0.723	6.82	157.3	167.5	8.96	0.35
Sep-06	4.82	13.76	447.59	442.77	16.27	0.781	6.81	78	12.2	5.25	
Dec-06	3.39	13.76	447.59	444.2	8.7	0.724	7.21	41	2.6	2.09	
Apr-07	3.45	13.45	447.59	444.14	5.5	0.893	7.29	101	0	0	0
Jun-07	5.9	13.2	447.59	441.69	12.1	0.739	7.1	32	0.1	6.39	0
Oct-07	5.71	14.1	447.59	441.88	15.8	90	7.8	33	10	4.1	0
Dec-07	3.55	14.1	447.59	444.04	6.4	0.826	7.2	110	2.2	4.79	0
Mar-08	3.69	13.76	447.59	443.9	5.6	5.97	7.4	151	4.5	1.3	0.003
Jun-08	5.38	13.76	447.59	442.21	13.5	0.734	7	25	78	3.1	0
Sep-08	5.31	13.76	447.59	442.28	16.2	0.87	6.9	-36	85.8	8.3	0
Dec-08	3.02	13.76	447.59	444.57	6.9	1.11	6.8	129	10.3	1.93	0.001
Mar-09	3.61	13.76	447.59	443.98	5.5	0.62	7.22	78	1.7	1.43	0
Jun-09	4.84	13.76	447.59	443.4		0.308	7.9	118	52.2	0.53	0
Sep-09	4.38	13.76	447.59	443.21	14.2	0.335	7.59	-4	0	7.77	0
Dec-09	3.53	13.76	447.59	444.06	3.9	0.732	7.02	70	5.1	4.28	0
Mar-10	3.39	13.76	447.59	444.2	6.3	0.786	6.89	74	0	6.09	0
Jun-10	3.61	13.76	447.59	443.98	14.82	0.724	6.7	51	80.4	12.5	0

Groundwater Field Parameters May 2002 - May 2013

Aug-10	3.35	13.76	447.59	444.24	16.9	0.92	6.68	33	0	3.25	0
Nov-10	2.9	13.76	447.59	444.69	10.21	0.779	7.19	109	113		0
Feb-11	3.45	13.76	447.59	444.14	4.26	0.709	7.01	12		3.43	0
Oct-11	2.97	13.76	447.59	444.62	12.7	0.889	6.87	79	11.8	0.49	0
Nov-11	3.45	13.76	447.59	444.14	11.5	0.827	6.65	92	0	5.62	0
Jan-12	3.22	13.76	447.59	444.37	5.4	0.721	6.99	51		1.97	
Apr-12	3.29	13.76	447.59	444.3	7.9	0.666	7.09	11		2.26	
Jul-12	7.45	13.76	447.59	440.14	15.5	0.78	7.05	62		3.08	
Feb-13	3.72	13.76	447.59	443.87	5.9	0.571	7.2	109.7		0.88	
May-13	3.26	13.76	447.59	444.33	12.7	0.645	7.27	60		1.31	

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters May 2002 - May 2013

Location ID MW-1253G

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	2.79	13.05	448.01	445.22	8.6	0.668	6.82	60		2.1	0.02
Aug-02	4.78	13.05	448.01	443.23	17.8	0.815	6.32	125		0.67	0.03
Nov-02	3.47	12.65	448.01	444.54	11	0.503	7.25	112.8	1297.3	0.03	0.34
Mar-03	3.07	12.65	448.01	444.94	4.7	0.366	7.58	32	1269.7	0.05	0.29
Jun-03	3.63	12.65	448.01	444.38	11.52	0.53	7.19	28.2	817.6	2.49	0.35
Sep-03	3.88	12.65	448.01	444.13	14.16	0.621	7.26	60.3	982	12.28	0.39
Dec-03	2.81	12.65	448.01	445.2	6.89	0.445	7.61	99.4	1193.2	13.21	0.33
Mar-04	3.21	12.65	448.01	444.8	4.19	0.631	7.37	87.3	66.4	8.17	0.31
Sep-06	4.14	12.52	448.01	443.87	15.43	0.715	6.92	-59	28.2	3.68	
Dec-06	3.46	12.52	448.01	444.55	8.6	0.766	7.22	-27	3.1	0.36	0
Apr-07	2.45	12.54	448.01	445.56	6	0.95	7.28	16	0	0	0
Jun-07	5.26	16.05	448.01	442.75	12.2	0.78	7.05	0.78	9.3	2.72	0
Oct-07	4.56	12.8	448.01	443.45	16	97	7.8	26	9	3.6	0
Dec-07	3.31	12.8	448.01	444.7	6.3	0.791	7	48	4.6	1.65	0
Mar-08	3.79	12.52	448.01	444.22	5.7	1.4	7.3	117	51	4.4	0.001
Jun-08	4.56	12.52	448.01	443.45	14.8	0.756	6.9	-58	13	5.1	0
Sep-08	4.69	12.52	448.01	443.32	16.4	0.856	7.11	-129	89.2	9.95	0
Dec-08	2.98	12.52	448.01	445.03	6.1	0.96	6.9	43	13	3.02	0
Mar-09	3.81	12.52	448.01	444.2	5.7	0.75	7.3	61	4.1	1.9	0
Jun-09	4.48	12.52	448.01	444.51		0.415	7.9	-55	48.5	1.1	0
Sep-09	3.29	12.52	448.01	444.72	14.7	0.38	7.48	-74	0	0.01	0
Dec-09	3.32	12.52	448.01	444.69	5	0.709	7.21	-17	6.1	7.01	0
Mar-10	3.24	12.52	448.01	444.77	5.7	0.799	7.02	7	0	2.36	0
Jun-10	3.32	12.52	448.01	444.69	15.84	0.721	6.76	-51	106	12.45	0

Groundwater Field Parameters May 2002 - May 2013

Aug-10	3.2	12.52	448.01	444.81	16.6	0.779	6.94	-94	8.8	3.63	0
Nov-10	2.95	12.52	448.01	445.06	9.74	0.777	7.32	-39	101		0
Feb-11	3.15	12.52	448.01	444.86							
Oct-11	2.9	12.52	448.01	445.11							
Nov-11	3.32	12.52	448.01	444.69							
Jan-12	3.65	12.52	448.01	444.36							
Apr-12	3.11	12.52	448.01	444.9							
Jul-12	7.68	12.52	448.01	440.33							
Feb-13	3.6	12.52	448.01	444.41							
May-13	3.13	12.52	448.01	444.88							

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters May 2002 - May 2013

Location ID MW-1253H

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.54	16.43	448.89	445.35	10	0.772	6.74	-0.24		2.29	0.03
Aug-02	5.76	16.43	448.89	443.13	19	0.707	6.54	-78	0	0.59	0.03
Nov-02	4.24	16.25	448.89	444.65	13.1	0.599	7.3	-80.6	48.2	0.08	0.38
Mar-03	3.76	16.25	448.89	445.13	6.7	0.514	7.47	2.7	252.8	0.02	0.38
Jun-03	4.33	16.25	448.89	444.56	11.89	0.63	7.2	5.3	34.6	6.4	0.42
Sep-03	4.86	16.25	448.89	444.03	16.77	0.758	7.3	22.1	540.7	20.61	0.44
Dec-03	3.56	16.25	448.89	445.33	8.32	0.604	7.45	86.7	15.4	17.94	0.44
Mar-04	4	16.25	448.89	444.89	5.84	0.572	7.08	70.8	19	5.96	0.44
Sep-06	4.92	16.2	448.74	443.82	17.37	0.732	6.91	-112	19.4	2.63	
Dec-06	4.11	16.2	448.74	444.63	10.4	0.746	7.32	-99	8	1.71	
Apr-07	4.08	16.15	448.74	444.66	7.15	0.905	7.35	-88	3.6	0.14	0
Jun-07	5.92	16.05	448.74	442.82	14.8	0.809	7.04	-95	1	3.18	0
Oct-07	5.55	16.42	448.74	443.19	18.3	0.18	8.1	521	31	3.7	0.1
Dec-07	4.18	16.42	448.74	444.56	8.1	1.03	7.3	153	88.9	6.64	0
Mar-08	4.31	16.2	448.74	444.43	7.5	1.18	7.4	63	19	4.1	0.001
Jun-08	5.28	16.2	448.74	443.46	16.3	0.552	7.2	-28	11	4.8	0
Sep-08	5.51	16.2	448.74	443.23	17.5	0.686	7.28	-125	92.9	6.81	0
Dec-08	3.5	16.2	448.74	445.24	8.7	0.86	7.3	8	12	2.9	0
Mar-09	4.28	16.2	448.74	444.46	7.1	0.505	7.7	61	2.3	1.56	0
Jun-09	5.02	16.2	448.74	443.72		0.279	7.97	-73	17.9	0.67	0
Sep-09	4.21	16.2	448.74	444.53	15.5	0.284	7.71	-74	0	1.28	0
Dec-09	4.02	16.2	448.74	444.72	7.9	0.437	7.48	-53	4.3	2.07	0
Mar-10	3.86	16.2	448.74	444.88	6.9	0.617	7.22	-52	0	4.15	0
Jun-10	3.96	16.2	448.74	444.78	15.93	0.518	7.06	-105	91.8	13.14	0

Groundwater Field Parameters May 2002 - May 2013

Aug-10	3.85	16.2	448.74	444.89	16.8	0.589	6.98	-96	0	0.79	0
Nov-10	3.78	16.2	448.74	444.96	11.85	0.515	7.52	-98	64.3	16.2	0
Feb-11	4.05	16.2	448.74	444.69	6.24	0.581	7.31	-96		3	0
Oct-11	3.42	16.2	448.74	445.32	13.2	0.61	7.21	-59	11.6	2.28	0
Nov-11	3.92	16.2	448.74	444.82	12.9	0.528	7.93	-50	24.1	11.52	0
Jan-12	3.16	16.2	448.74	445.58	6.2	0.451	7.36	-21		1.45	
Apr-12	3.75	16.2	448.74	444.99	9.2	0.491	7.43	-66		1.35	
Jul-12	8.3	16.2	448.74	440.44	19.2	0.58	7.33	-97.1		3.6	
Feb-13	1.74	14.48	445.69	443.95	4.5	0.416	7.67	64.3		1.92	
May-13	0.29	14.48	445.69	445.4	13.5	0.51	7.32	69		0.98	

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters May 2002 - May 2013

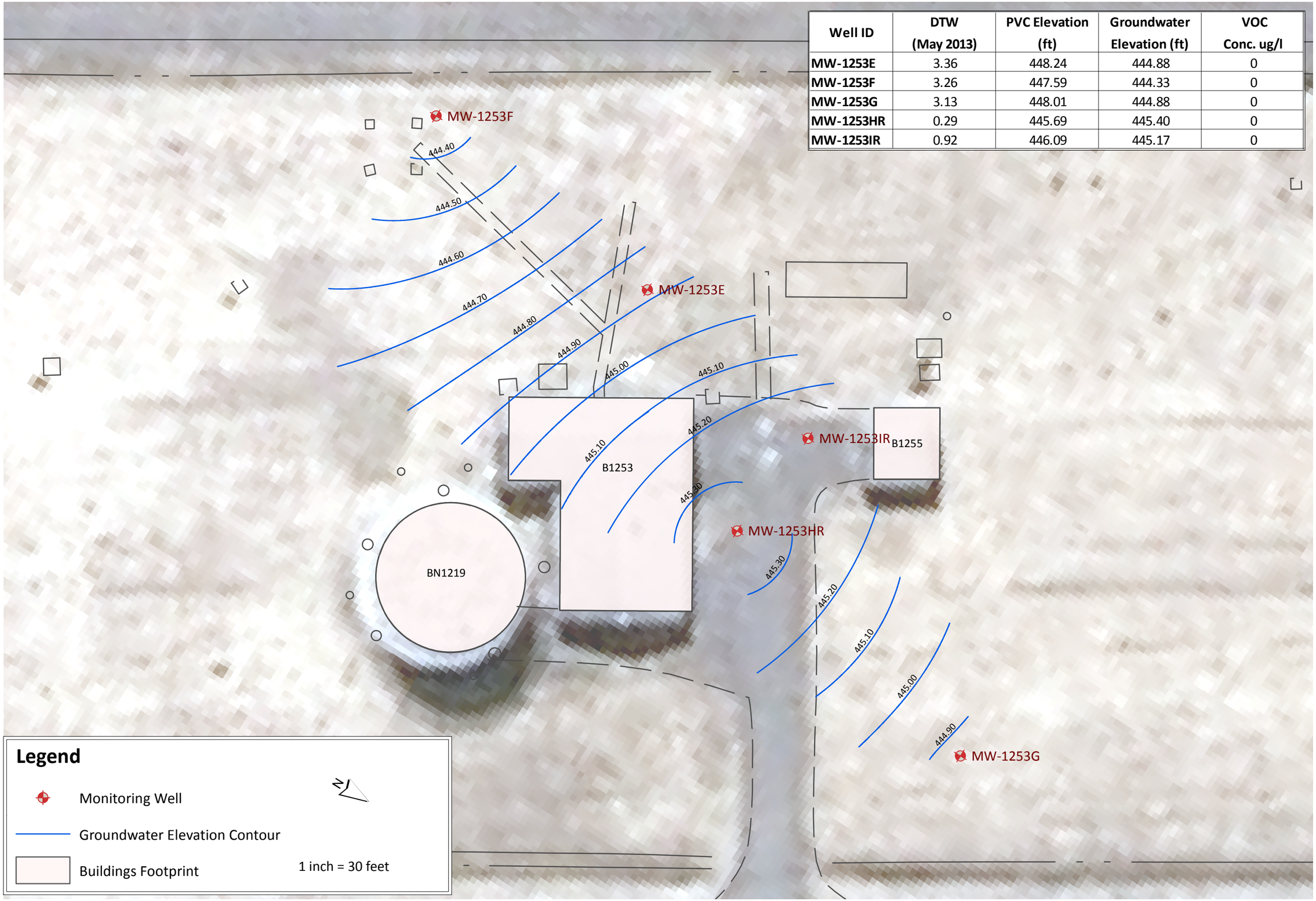
Location ID MW-1253I

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.71	16.23	448.86	445.15	10.8	0.832	6.65	105		1.74	0.03
Aug-02	6.04	16.23	448.86	442.82	21.6	0.845	6.57	76	0	1.3	0.03
Nov-02	4.28	16.31	448.86	444.58	14	0.684	7.09	102.6	402.9	0.01	0.43
Mar-03	3.83	16.31	448.86	445.03	6.09	0.537	7.31	67.3	271.4	0.03	0.4
Jun-03	4.45	16.31	448.86	444.41	13.79	0.75	6.95	68.2	573.4	1.76	0.47
Sep-03	4.99	16.31	448.86	443.87	19.01	0.858	7.05	137	210.6	17.49	0.48
Dec-03	3.49	16.31	448.86	445.37	7.23	0.596	7.45	132.9	107.4	9.7	0.45
Mar-04	4.09	16.31	448.86	444.77	5.59	0.842	7.25	159.9	54.9	4.99	0.41
Sep-06	5.13	16.2	448.99	443.86	20.26	0.694	6.78	-63	18	3.9	
Dec-06	4.28	16.2	448.99	444.71	10.4	0.694	7.31	-51	1.9	3	
Apr-07	4.33	16.21	448.99	444.66	7.28	0.872	7.36	-19	0	0	0
Jun-07	6.23	16.18	448.99	442.76	19.7	0.726	6.96	-8	0.3	2.45	0
Oct-07	5.85	16.48	448.99	443.14	20.4	94	7.8	42	11	3.7	0
Dec-07	4.42	16.48	448.99	444.57	8.4	0.755	7.2	35	3	3.71	0
Mar-08	4.57	16.2	448.99	444.42	7.2	2.95	7.4	73	43.1	3	0.002
Jun-08	5.66	16.2	448.99	443.33	18.2	0.709	6.9	-68	95	4.3	0
Sep-08	5.85	16.2	448.99	443.14	20.1	0.771	7.06	-107	87.3	6.49	0
Dec-08	3.79	16.2	448.99	445.2	8.1	0.82	7.2	12	26	4.8	0
Mar-09	4.64	16.2	448.99	444.35	7.4	0.69	7.3	58	2.3	1.5	0
Jun-09	5.41	16.2	448.99	442.6		0.575	7.68	-32	13.3	0.82	0
Sep-09	4.54	16.2	448.99	444.45	18	0.317	7.55	-72	0	1.21	0
Dec-09	4.36	16.2	448.99	444.63	6.8	0.6	7.17	-19	6.4	6.04	0
Mar-10	4.28	16.2	448.99	444.71	7.2	0.761	7.04	3	0	10.27	0
Jun-10	4.34	16.2	448.99	444.65	17.89	0.623	6.77	-53	87.1	9.22	0

Groundwater Field Parameters May 2002 - May 2013

Aug-10	4.27	16.2	448.99	444.72	20.6	0.685	6.91	-69	0	3.49	0
Nov-10	4.1	16.2	448.99	444.89	12.38	0.692	7.25	-42	77.6	15.67	0
Feb-11	4.48	16.2	448.99	444.51							
Oct-11	3.81	16.2	448.99	445.18	14.2	0.769	7.08	0	10.5	1.52	0
Nov-11	4.35	16.2	448.99	444.64	13.3	0.711	7.53	2	0	4.65	0
Jan-12	4.16	16.2	448.99	444.83	5.6	0.686	7.12	24		1.46	
Apr-12	4.2	16.2	448.99	444.79	10.5	0.689	7.18	2		2.2	
Jul-12	8.74	16.2	448.99	440.25	19.9	0.69	7.12	-53.1		3.5	
Feb-13	1.39	13.29	446.09	444.7	4.6	0.634	7.42	77		1.53	
May-13	0.92	13.29	446.09	445.17	16.5	0.563	7.41	86		1.25	

Well ID	DTW (May 2013)	PVC Elevation (ft)	Groundwater Elevation (ft)	VOC Conc. ug/l
MW-1253E	3.36	448.24	444.88	0
MW-1253F	3.26	447.59	444.33	0
MW-1253G	3.13	448.01	444.88	0
MW-1253HR	0.29	445.69	445.40	0
MW-1253IR	0.92	446.09	445.17	0



DATE: JUNE 2013

SCALE: 1 inch= 30 feet

DRAWN/CHECKED: BB/SMK

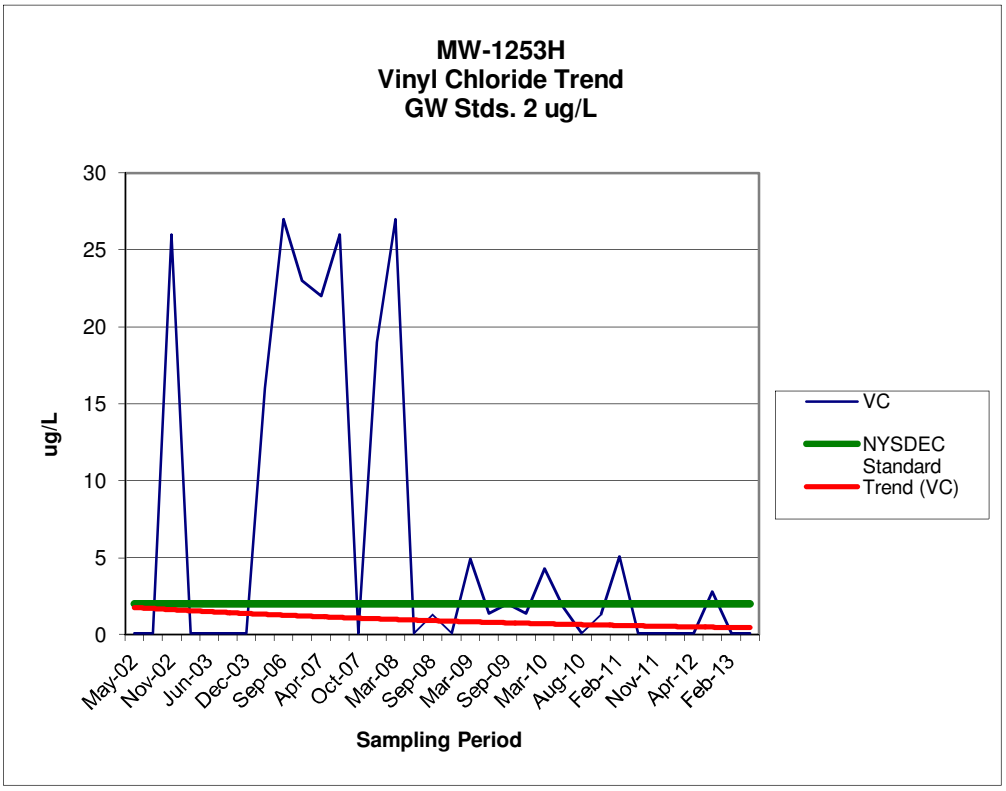
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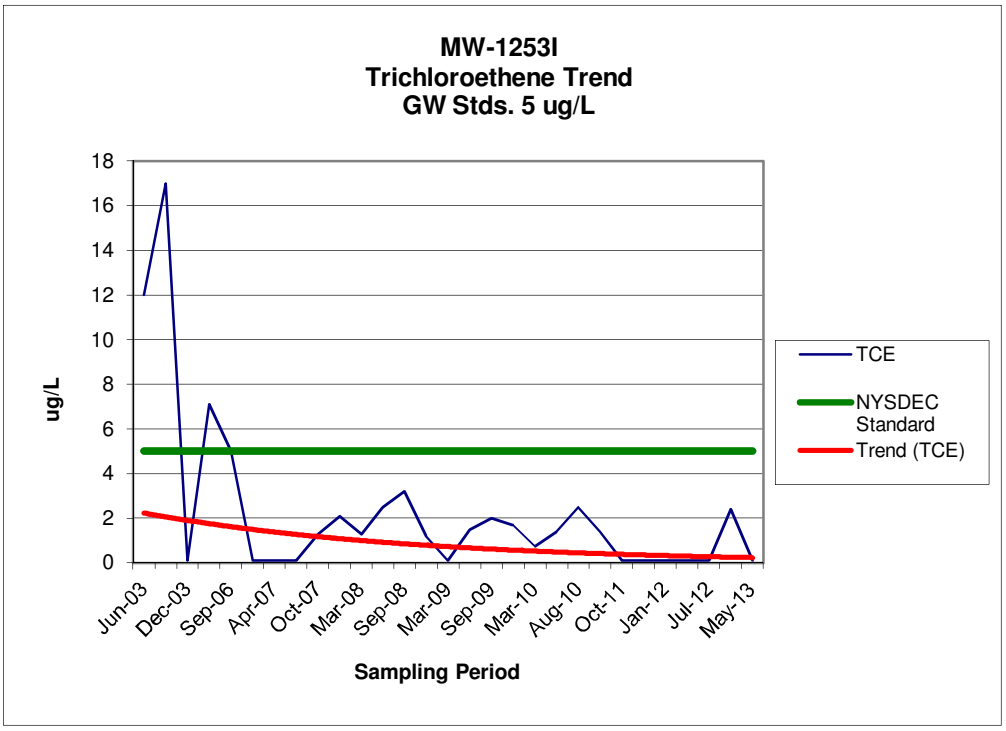
GROUNDWATER CONTOUR MAP MAY 2013
VERONA RESEARCH FACILITY
VERONA, NY

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Verona Research Site Monitored Natural Attenuation
Trend Analyses
May 2013 Sampling

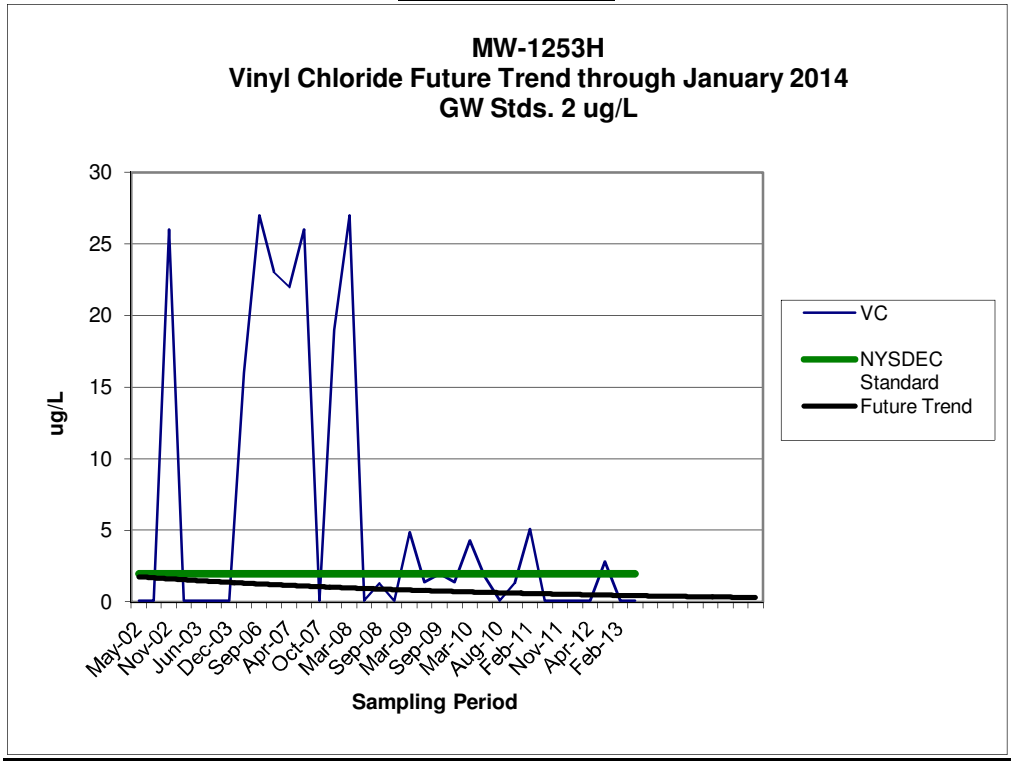
Trends

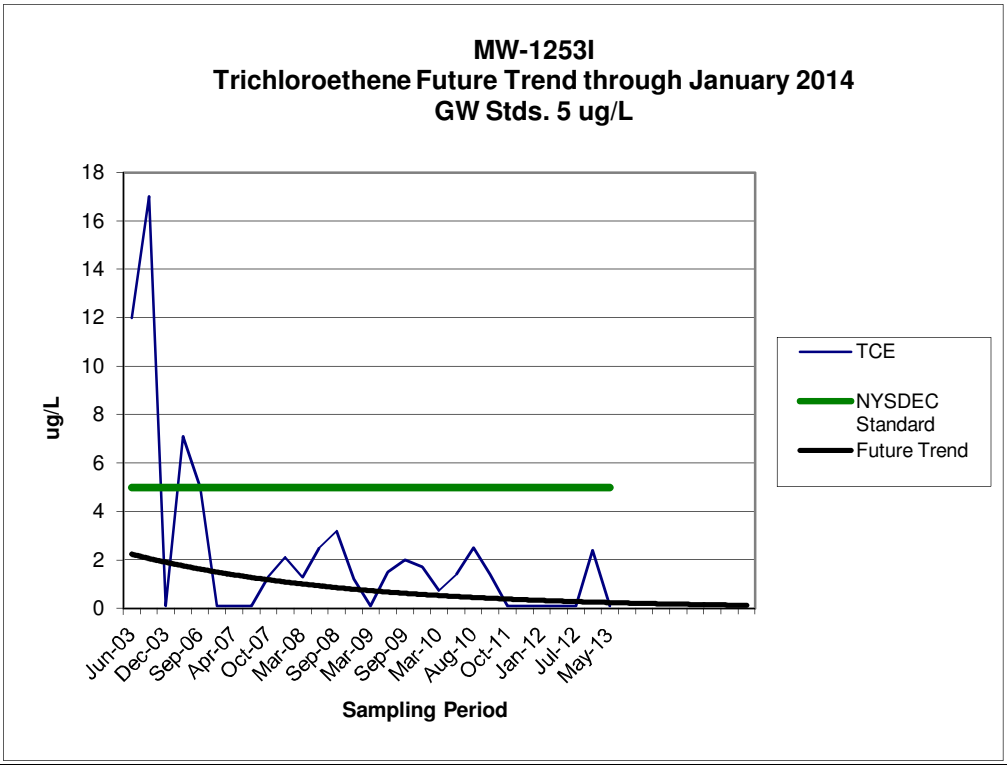




Verona Research Site Monitored Natural Attenuation
Trend Analyses
May 2013 Sampling

Future Trends





PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Lu Engineers, Inc.

For Lab Project ID

131939

Referencing

Verona

Prepared

Thursday, June 06, 2013

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 131939

Client: **Lu Engineers, Inc.**

Project Reference: Verona

Sample Identifier: MW 1253 E
Lab Sample ID: 131939-01
Matrix: Groundwater

Date Sampled: 5/29/2013 12:10 PM
Date Received: 5/30/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1-Dichloroethene	< 2.00	ug/L		6/4/2013 9:07:00 PM
cis-1,2-Dichloroethene	< 2.00	ug/L		6/4/2013 9:07:00 PM
Tetrachloroethene	< 2.00	ug/L		6/4/2013 9:07:00 PM
trans-1,2-Dichloroethene	< 2.00	ug/L		6/4/2013 9:07:00 PM
Trichloroethene	< 2.00	ug/L		6/4/2013 9:07:00 PM
Vinyl chloride	< 2.00	ug/L		6/4/2013 9:07:00 PM

Method Reference(s): EPA 8260B
EPA 5030
Data File: X05759.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 131939

Client: **Lu Engineers, Inc.**

Project Reference: Verona

Sample Identifier: MW 1253 F
Lab Sample ID: 131939-02
Matrix: Groundwater

Date Sampled: 5/29/2013 12:10 PM
Date Received: 5/30/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1-Dichloroethene	< 2.00	ug/L		6/4/2013 9:30:00 PM
cis-1,2-Dichloroethene	< 2.00	ug/L		6/4/2013 9:30:00 PM
Tetrachloroethene	< 2.00	ug/L		6/4/2013 9:30:00 PM
trans-1,2-Dichloroethene	< 2.00	ug/L		6/4/2013 9:30:00 PM
Trichloroethene	< 2.00	ug/L		6/4/2013 9:30:00 PM
Vinyl chloride	< 2.00	ug/L		6/4/2013 9:30:00 PM

Method Reference(s): EPA 8260B
EPA 5030
Data File: X05760.D

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 131939

Client: **Lu Engineers, Inc.**

Project Reference: Verona

Sample Identifier: MW 1253 HR
Lab Sample ID: 131939-03
Matrix: Groundwater

Date Sampled: 5/29/2013 2:15 PM
Date Received: 5/30/2013

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**3.50**	mg/L		6/3/2013

Method Reference(s): SM 5310 B
Subcontractor ELAP ID: 10478

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1-Dichloroethene	< 2.00	ug/L		6/4/2013 9:53:00 PM
cis-1,2-Dichloroethene	< 2.00	ug/L		6/4/2013 9:53:00 PM
Tetrachloroethene	< 2.00	ug/L		6/4/2013 9:53:00 PM
trans-1,2-Dichloroethene	< 2.00	ug/L		6/4/2013 9:53:00 PM
Trichloroethene	< 2.00	ug/L		6/4/2013 9:53:00 PM
Vinyl chloride	< 2.00	ug/L		6/4/2013 9:53:00 PM

Method Reference(s): EPA 8260B
EPA 5030
Data File: X05761.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 131939

Client: **Lu Engineers, Inc.**

Project Reference: Verona

Sample Identifier: MW 1253 IR
Lab Sample ID: 131939-04
Matrix: Groundwater

Date Sampled: 5/29/2013 2:00 PM
Date Received: 5/30/2013

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**3.10**	mg/L		6/3/2013

Method Reference(s): SM 5310 B
Subcontractor ELAP ID: 10478

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1-Dichloroethene	< 2.00	ug/L	M	6/4/2013 10:16:00 PM
cis-1,2-Dichloroethene	< 2.00	ug/L		6/4/2013 10:16:00 PM
Tetrachloroethene	< 2.00	ug/L	M	6/4/2013 10:16:00 PM
trans-1,2-Dichloroethene	< 2.00	ug/L		6/4/2013 10:16:00 PM
Trichloroethene	< 2.00	ug/L		6/4/2013 10:16:00 PM
Vinyl chloride	< 2.00	ug/L		6/4/2013 10:16:00 PM

Method Reference(s): EPA 8260B
EPA 5030
Data File: X05762.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"V" = Sample concentration is >10 times the spike. No meaningful Spike Recovery can be calculated.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"C" = Concentration differs by more than 40% between the primary and secondary analytical columns.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Lu Engineers	CLIENT:	SAME	131939
ADDRESS:	175 Sullys Trail Ste 202	ADDRESS:		Quotation #:
CITY:	Pittsford STATE: NY ZIP: 14534	CITY: STATE: ZIP:		Email:
PHONE:	(585) 385-7417	PHONE:		
ATTN:	Greg Andrus / Bryan Bancroft	ATTN:		

PROJECT REFERENCE: Verona 13147-06

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 VOC *	TOC	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/29/13	12:10		X	MW 1253E	WG	2	X		* 8260 Site-Specific VOC (see Marshall for list)	01
2		12:10			MW 1253F		2				02
3		14:15			MW 1253HR		3		X		03
4		14:00			MW 1253IR		3		X		
5		14:00			MW 1253IRMS		1				04
6		14:00			MW 1253IRMSD		1				
7											
8											
9											
10											

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	✓	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

3 Cool

Sampled By: — Date/Time: 5/29/13 14:30

Relinquished By: — Date/Time: 5/30/13 9:40

Received By: — Date/Time: 5/30/13 940AM

Received @ Lab By: Elizabeth A Homick — Date/Time: 5/30/13 1220

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: LU **Completed by:** EAH

Lab Project ID: 131939 **Date:** 5/30

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X Voas		X
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	3°Iced		
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

H2M: ELAP ID: 10478

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:		ADDRESS:			
CITY: STATE: ZIP:		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD / OTHER	
PROJECT NAME/SITE NAME:		ATTN:	Kate Hansen	ATTN:	Meridith Dillman
		COMMENTS:	Please email results to khansen@paradigmenv.com and jdaloia@paradigmenv.com	Date Due: 6/7/13	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOC										REMARKS	PARADIGM LAB SAMPLE NUMBER
					ee EAH 5/30													1305G04	
1	5/29/13	1415			131939.0X03	GW	1	X										Pres w/ H_2SO_4	-001
2	↓	1400			↓ 04	↓	1	X										↓	002
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature: 3.3°C	Y ☐	N ☐
Comments: PER H2M KRH 6/6/13		

Client

Sampled By	Date/Time	Total Cost:
Elizabeth A Honcke	5/30/13 1600	
Relinquished By	Date/Time	
	5/31/13 9:28	P.I.F.
Received By	Date/Time	
Received @ Lab By	Date/Time	