

PLUMLEY

ENGINEERING

Civil and Environmental Engineering

January 29, 2010

*** VIA E-MAIL: kjkelly@gw.dec.state.ny.us ***

Mr. Kevin J. Kelly
Environmental Engineer
NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation, Region 7
615 Erie Boulevard West
Syracuse, New York 13204-2400

RE: Final Monitoring Summary Report
Former North Star Cleaners
7980-7984 Brewerton Road
Cicero, Onondaga County, New York
Site No. V-00150-7
Project No. 2008007

Dear Mr. Kelly:

This report follows the completion of the required eight consecutive quarters of groundwater monitoring in accordance with Attachment 4 Operation, Maintenance, and Monitoring Plan (OMMP) for Groundwater Monitoring contained in the *Voluntary Cleanup Program, Final Report for Site No. V-00150-7, Voluntary Cleanup Agreement No. A7-0466-0702, October 2006*.

We are providing the following data:

- Table 1 – Summary of Historical Groundwater Analytical Results – Total VOCs
- Table 2 – Summary of Groundwater Analytical Results – TCL VOCs
- Table 3 – Monitoring Well Construction and Groundwater Elevation Data

- Table 4 – Summary of Groundwater Chlorinated Analytical Results – TCL VOCs
- Graph 1 – Total VOC Concentration Trend
- Laboratory Analysis Report
- Groundwater Contour Map

This analytical data represents the eighth of eight quarterly sampling rounds required per the approved OMMP for groundwater monitoring at the above-referenced site. Samples were collected on December 15, 2009 from CES-MW-1, MW-1, MW-2, MW-3, TW-5, MW-10, MW-11, MW-12, MW-14 and MW-18.

As per the approved OMMP, the groundwater contour map is based on data collected during the third quarter of 2009. The December 2009 quarter is the final of the eight post site closure monitoring quarters required by the New York State Department of Environmental Conservation (DEC) as a requirement of site closure from the Voluntary Cleanup Program.

Historical Groundwater Quality Summary

In the December 2009 data, four of the ten wells monitored recorded their lowest groundwater total volatile organic compound (VOC) concentrations since the source area excavation in January 2005. In addition, three of the remaining six wells had groundwater concentrations lower than their total VOC concentrations in December of 2008, exemplifying a continued downward trend. The highest total VOC concentration of the ten wells was found in MW-12 at 240 parts per billion (ppb) in December 2009.

During 2009, the highest groundwater concentrations were found in the September samples, with very few exceptions. However, as shown in Table 4, the concentrations for most wells and individual chlorinated constituents in the third 2009 sampling round are significantly below site peak concentrations and lower than recorded in the third quarter of 2008, except for one location.

It is also noted that among the four chlorinated constituents, tetrachloroethylene (PCE), trichloroethylene (TCE), 1,2-dichloroethylene (1,2-DCE) and vinyl chloride (VC), the constituent with the highest current concentrations is generally 1,2-DCE. Degradation of PCE produces first TCE, then 1,2-DCE and finally VC.

Groundwater Flow

A groundwater contour map was generated from the September 15, 2009 depth to groundwater measurements. The well casing elevations were surveyed and referenced to an arbitrary datum of 100 feet to produce relative groundwater elevations. These elevations were then used to contour lines of equal groundwater elevation to indicate directions of movement. Shallow water table contours are consistent with the historical flow direction, described as generally toward the northwest beginning from the reference point of the former dry cleaner sump.

Summary

Groundwater VOC concentrations continued a downward trend throughout the eight quarter monitoring period required in the OMMP. VOCs increase somewhat when the groundwater table falls and decrease when the groundwater table rises. The groundwater elevations recorded in September 2009 were the lowest ever recorded on-site. This resulted in slightly elevated VOC concentrations in wells downgradient from the source area.

The overall historical VOC attenuation, as seen in Graph 1, continues in all locations when fluctuations in groundwater level are taken into account. It is the historical attenuation of VOC concentrations in the groundwater since 2004 that is the objective and result of the Voluntary Cleanup Program.

Recommendations

This is the conclusion of the OMMP. It is the recommendation of Plumley Engineering that monitoring be discontinued and all remaining wells be decommissioned.

Mr. Kevin J. Kelly
January 29, 2010
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If you have any questions regarding this information, please contact our office.

Sincerely,

PLUMLEY ENGINEERING, P.C.



William J. Spizuoco, P.E.

WJS/cas

Attachments

cc:	Ms. Sue Marji (w/attachments)	[via e-mail: smarji@widewaters.com]
	Mr. Marco Marzocchi (w/attachments)	[via e-mail: mmarzocchi@widewaters.com]
	Ms. Mary Jane Peachey (w/attachments)	[via e-mail: mjpeache@gw.dec.state.ny.us]
	Mr. Gregg Townsend (w/attachments)	[via e-mail: gatownse@gw.dec.state.ny.us]
	Ms. Melissa Menetti (w/attachments)	[via e-mail: mxm29@health.state.ny.us]
	Randolph S. Katz, Esquire (w/attachments)	

TABLES

FORMER NORTH STAR PROPERTY
Town of Cicero, Onondaga County, New York
Site No. V-00150-7, VCA No. A7-0466-0702

TABLE 1 - SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS - TOTAL VOCs

MONITORING INFORMATION		MONITORING WELL									
ANALYTICAL METHOD	SAMPLING DATE	CES-MW-1	MW-1	MW-2	MW-3	TW-5	MW-10	MW-11	MW-12	MW-14	MW-18
		Total Compound Concentration (µg/L)									
EPA 8260 (TCL)	07/26/04	207	560	2,960	247	1,162	NI	1,198	NI	NI	NI
EPA 8260 (TCL/STARS ¹)	11/15/05	52	295	3,115	522	36	82	315	1,233	115	NI
EPA 8260 (TCL)	05/02/06	147	664	1,069	261	980	NS	NS	NS	NS	NI
EPA 8260 (TCL)	07/18/06	118	NS	NS	NS	725	NS	191	1,410	820	NI
EPA 8260 (TCL)	09/13/06	22	NS	1,374	254	890	NS	151	NS	NS	NI
EPA 8260 (TCL)	11/29/06	83	130	1,618	131	1,030	NS	141	1,434	868	NI
EPA 8260 (TCL)	03/30/07	40	249	538	30	338	89	67	612	30	NI
EPA 8260 (TCL)	06/27/07	15	470	183	248	582	88	103	520	275	25
EPA 8260 (TCL)	07/16/07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EPA 8260 (TCL)	03/19/08	1	104	87	55	2	62	2	456	90	8
EPA 8260 (TCL)	06/10/08	6	177	83	182	318	79	31	404	129	16
EPA 8260 (TCL)	09/16/08	2	236	119	512	224	92	10	406	104	20
EPA 8260 (TCL)	12/16/08	7	79	167	85	17	69	1	305	50	10
EPA 8260 (TCL)	03/17/09	4	129	140	27	5	42	2	206	37	7
EPA 8260 (TCL)	06/16/09	2	138	142	61	180	50	4	204	36	25
EPA 8260 (TCL)	09/15/09	3	138	427	334	197	61	26	265	29	11
EPA 8260 (TCL)	12/15/09	ND	171	220	85	26	54	ND	240	16	7

Notes:

¹DEC Spill Technology and Remediation Series (STARS) Memo #1 - *Petroleum-Contaminated Soil Guidance Policy*, dated August 1992.

VOCs Volatile Organic Compounds

µg/L micrograms per liter, equivalent to parts per billion (ppb)

ND Not detected at concentration greater than laboratory method detection limit

TCL Target Compound List

NI Not installed

NS Not sampled

FORMER NORTH STAR PROPERTY
Town of Cicero, Onondaga County, New York
Site No. V-00150-7, VCA No. A7-0466-0702

TABLE 2 - SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - TCL VOCs

Date Sampled: December 15, 2009

Compound	State Standard ¹ (µg/L)	Monitoring Well Location									
		CES-MW-1	MW-1	MW-2	MW-3	TW-5	MW-10	MW-11	MW-12	MW-14	MW-18
		Compound Concentration (µg/L)									
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total) (1,2-DCE)	5	ND	67	92	48	16	46	ND	120	9	5
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane (methyl chloride)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	18	50	12	3	ND	ND	39	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	ND	24	59	18	6	3	ND	63	ND	ND
Vinyl Chloride	2	ND	8	19	7	1	4	ND	18	7	2
Xylenes (total)	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	---	0	117	220	85	26	54	0	240	16	7

Notes:

¹Reference: DEC Division of Water's Technical and Operational Guidance Series (TOGS) 1.1.1, *Ambient Water Quality Standards and Guidance Values*, reissued June 1998.

TCL Target Compound List

VOCs Volatile Organic Compounds

µg/L micrograms per liter, equivalent to parts per billion (ppb)

ND Not detected at concentration greater than laboratory method detection limit

--- No promulgated State Standard

0.4* Applies to the sum of cis- and trans-1,3-dichloropropene

5* Applies to the sum of xylene isomers (o-, m- and p-isomers)

VOC analysis per EPA Method 8260.

Compounds that exceeded State Standards are denoted in **BOLD**.

FORMER NORTH STAR PROPERTY
Town of Cicero, Onondaga County, New York
Site No. V-00150-7, VCA No. A7-0466-0702

TABLE 3 - MONITORING WELL CONSTRUCTION AND GROUNDWATER ELEVATION DATA

MONITORING WELL CONSTRUCTION DATA	MONITORING WELL									
	CES-MW-1	MW-1	MW-2	MW-3	TW-5	MW-10	MW-11	MW-12	MW-14	MW-18
Top-of-Casing Elevation	102.71	103.07	103.42	103.80	103.84	103.84	101.83	102.09	101.96	101.66
Ground Elevation	102.91	103.72	103.94	104.08	104.14	104.13	102.10	101.80	102.36	101.91
Total Well Depth	12.10	11.76	11.46	11.47	15.13	13.08	11.10	12.06	13.58	12.00
Bottom of Well Elevation	90.61	91.31	91.96	92.33	88.71	90.76	90.73	90.03	88.38	89.66
Diameter (inches)	1	2	2	2	1	2	2	2	2	1
MEASUREMENT DATE	GROUNDWATER ELEVATIONS ¹									
07/26/04	98.09	99.66	98.42	98.46	101.34	NI	NI	NI	NI	NI
11/15/05	100.40	102.36	100.94	100.14	103.03	100.20	99.63	101.36	99.18	NI
03/13/06	102.51	102.13	101.75	99.80	104.17	101.09	100.71	102.09	101.19	NI
09/13/06	99.90	101.54	100.95	100.87	101.77	NM	99.54	NM	NM	NI
11/29/06	100.56	101.00	99.69	98.87	102.28	NM	99.40	99.74	NM	NI
03/30/07	102.21	102.67	102.24	102.82	103.45	NM	100.37	102.09	NM	NI
06/27/07	99.10	100.18	99.96	100.29	100.69	99.23	98.06	100.96	97.96	97.13
03/19/08	102.51	102.57	102.40	103.00	103.74	101.86	101.33	99.35	99.67	99.38
06/10/08	99.80	100.45	100.64	101.03	100.86	99.59	98.49	99.76	98.58	97.44
09/16/08	98.94	101.44	99.40	98.59	100.59	98.52	97.89	98.79	97.43	97.01
12/16/08	101.70	102.27	101.64	99.43	102.74	101.20	100.32	99.68	100.38	100.02
03/17/09	102.07	102.35	101.97	102.11	102.53	101.51	100.29	101.59	100.24	98.74
06/16/09	100.10	100.68	100.30	100.53	100.89	99.92	99.02	100.87	99.19	97.78
09/15/09	97.47	98.47	98.28	98.37	99.02	97.74	96.73	97.98	96.41	96.12
12/15/09	100.88	101.49	99.61	99.31	102.71	100.40	99.38	99.33	99.59	99.08

Notes:

¹Relative groundwater elevations are based on an arbitrary datum of 100.0 feet.

NI Not installed
 NM Not measured

FORMER NORTH STAR PROPERTY
Town of Cicero, Onondaga County, New York
Site No. V-00150-7, VCA No. A7-0466-0702

TABLE 4 - SUMMARY OF GROUNDWATER CHLORINATED ANALYTICAL RESULTS - TCL VOCs

Compound	Sample Date	State Standard ¹ (µg/L)	Monitoring Well Location									
			CES-MW-1	MW-1	MW-2	MW-3	TW-5	MW-10	MW-11	MW-12	MW-14	MW-18
			Compound Concentration (µg/L)									
Tetrachloroethene (PCE)	Peak Concentration:		2	290	1,900	110	320	1	ND	550	ND	ND
	03/19/08	5	1	35	17	4	2	ND	ND	110	ND	ND
	06/10/08	5	ND	43	21	22	68	ND	ND	130	ND	ND
	09/16/08	5	ND	17	24	110	28	1	ND	91	ND	ND
	12/16/08	5	ND	14	21	12	3	ND	ND	68	ND	ND
	03/17/09	5	2	34	35	2	2	ND	ND	46	ND	ND
	06/16/09	5	ND	20	25	5	20	ND	ND	39	ND	ND
	09/15/09	5	ND	11	150	69	20	ND	ND	45	ND	ND
12/15/09	5	ND	18	50	12	3	ND	ND	39	ND	ND	
Trichloroethene (TCE)	Peak Concentration:		17	120	570	130	210	17	5	410	1	ND
	03/19/08	5	ND	21	36	12	ND	6	ND	120	ND	ND
	06/10/08	5	ND	22	9	54	94	10	ND	110	ND	ND
	09/16/08	5	ND	31	16	130	55	12	ND	120	ND	ND
	12/16/08	5	ND	20	49	24	4	5	ND	84	ND	ND
	03/17/09	5	ND	37	42	6	1	3	ND	52	ND	ND
	06/16/09	5	ND	42	29	14	52	3	ND	50	ND	ND
	09/15/09	5	ND	30	91	83	47	9	1	85	ND	ND
12/15/09	5	ND	24	59	18	6	3	ND	63	ND	ND	
1,2-Dichloroethene (total) [1,2-DCE]	Peak Concentration:		72	190	640	260	410	72	250	510	580	17
	03/19/08	5	ND	42	30	31	ND	51	2	190	57	6
	06/10/08	5	2	100	41	90	140	61	25	140	80	12
	09/16/08	5	ND	170	57	220	130	72	8	170	63	15
	12/16/08	5	2	38	72	42	9	54	1	130	27	7
	03/17/09	5	ND	46	48	15	2	34	2	91	19	4
	06/16/09	5	ND	67	72	37	98	43	4	100	18	9
	09/15/09	5	1	89	160	160	120	49	21	120	17	9
12/15/09	5	ND	67	92	48	16	46	ND	120	9	5	
Vinyl Chloride	Peak Concentration:		82	63	170	66	180	10	63	94	280	8
	03/19/08	2	ND	6	4	9	ND	6	ND	36	33	2
	06/10/08	2	5	12	12	16	16	8	6	24	49	4
	09/16/08	2	2	18	22	52	11	7	2	25	41	5
	12/16/08	2	5	7	25	7	1	10	ND	23	23	3
	03/17/09	2	1	12	15	5	ND	5	ND	17	18	2
	06/16/09	2	2	9	16	5	10	5	ND	15	16	4
	09/15/09	2	2	8	26	22	10	3	4	15	12	2
12/15/09	2	ND	8	19	7	1	4	ND	18	7	2	

Notes:

¹Reference: DEC Division of Water's Technical and Operational Guidance Series (TOGS) 1.1.1, *Ambient Water Quality Standards and Guidance Values*, reissued June 1998.

TCL Target Compound List

VOCs Volatile Organic Compounds

µg/L micrograms per liter, equivalent to parts per billion (ppb)

ND Not detected at concentration greater than laboratory method detection limit

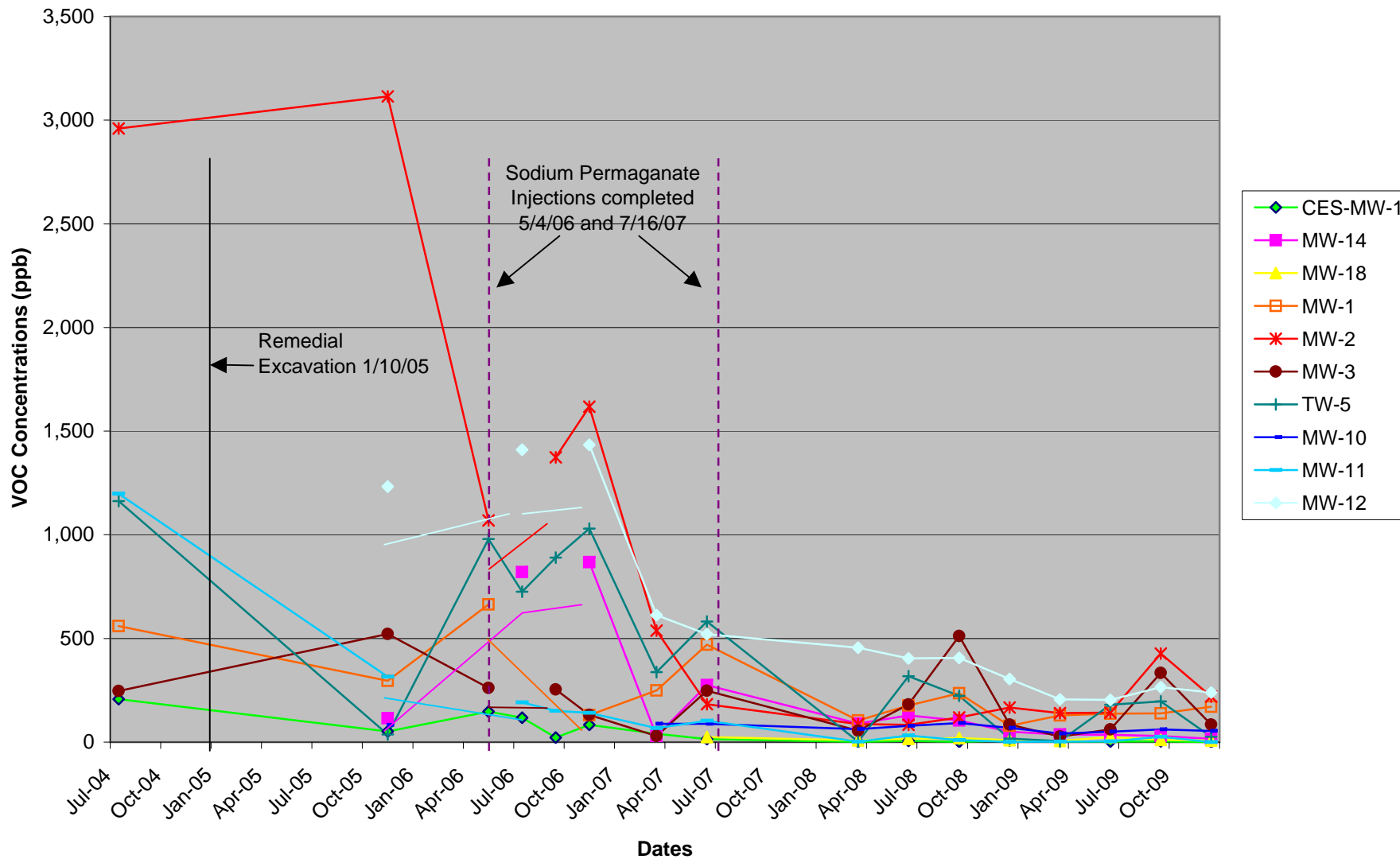
VOC analysis per EPA Method 8260.

Compounds that exceeded State Standards are denoted in **BOLD**.

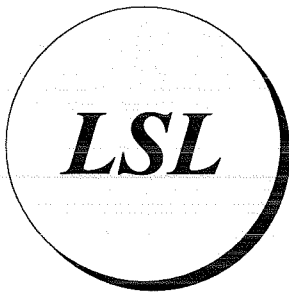
GRAPH

FORMER NORTH STAR PROPERTY
Town of Cicero, Onondaga County, New York
Site No. V-00150-7 / VCA No. A7-0466-0701

GRAPH 1 - TOTAL VOC CONCENTRATION TREND



LABORATORY ANALYSIS REPORT



Dale Vollmer
Plumley Engineering
8232 Loop Road
Baldwinsville, NY 13027-1321

Phone: (315) 638-8587
FAX: (315) 638-9740

Laboratory Analysis Report

For

Plumley Engineering

Client Project ID:

2008007.002 Katz & Katz - Northstar, Cicero

LSL Project ID: **0923086**

Receive Date/Time: 12/15/09 15:48

Project Received by: GS

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

(1) LSL Central Lab, East Syracuse, NY	(315) 445-1105	NYS DOH ELAP #10248 PA DEP #68-2556
(2) LSL North Lab, Waddington, NY	(315) 388-4476	NYS DOH ELAP #10900
(3) LSL Finger Lakes Lab, Wayland, NY	(585) 728-3320	NYS DOH ELAP #11667
(4) LSL Southern Tier Lab, Cuba, NY	(585) 968-2640	NYS DOH ELAP #10760
(5) LSL MidLakes Lab, Canandaigua, NY	(585) 396-0270	NYS DOH ELAP #11369
(6) LSL Brittonfield Lab, East Syracuse, NY	(315) 437-0200	NYS DOH ELAP #10155

This report was reviewed by:

Life Science Laboratories, Inc.

Fawn Jay, QA

Date:

12/30/09

A copy of this report was sent to:

- - LABORATORY ANALYSIS REPORT - -

Plumley Engineering Baldwinsville, NY

Sample ID:	CES MW-1	LSL Sample ID:	0923086-001
Location:			
Sampled:	12/15/09 12:50	Sampled By:	Client
Sample Matrix:	NPW		

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
<i>(1) EPA 8260B TCL Volatiles</i>					
Acetone	<10	ug/l		12/23/09	BD
Benzene	<1	ug/l		12/23/09	BD
Bromodichloromethane	<1	ug/l		12/23/09	BD
Bromoform	<1	ug/l		12/23/09	BD
Bromomethane	<1	ug/l		12/23/09	BD
2-Butanone (MEK)	<10	ug/l		12/23/09	BD
Carbon disulfide	<1	ug/l		12/23/09	BD
Carbon tetrachloride	<1	ug/l		12/23/09	BD
Chlorobenzene	<1	ug/l		12/23/09	BD
Chloroethane	<1	ug/l		12/23/09	BD
Chloroform	<1	ug/l		12/23/09	BD
Chloromethane	<1	ug/l		12/23/09	BD
Dibromochloromethane	<1	ug/l		12/23/09	BD
1,1-Dichloroethane	<1	ug/l		12/23/09	BD
1,2-Dichloroethane	<1	ug/l		12/23/09	BD
1,1-Dichloroethene	<1	ug/l		12/23/09	BD
1,2-Dichloroethene, Total	<1	ug/l		12/23/09	BD
1,2-Dichloropropane	<1	ug/l		12/23/09	BD
cis-1,3-Dichloropropene	<1	ug/l		12/23/09	BD
trans-1,3-Dichloropropene	<1	ug/l		12/23/09	BD
Ethyl benzene	<1	ug/l		12/23/09	BD
2-Hexanone	<10	ug/l		12/23/09	BD
Methylene chloride	<1	ug/l		12/23/09	BD
4-Methyl-2-pentanone (MIBK)	<10	ug/l		12/23/09	BD
Styrene	<1	ug/l		12/23/09	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		12/23/09	BD
<i>As per NELAC regulation, disclosure of the following condition is required; *The result of the laboratory control sample for this analyte was less than the established limit.</i>					
Tetrachloroethene	<1	ug/l		12/23/09	BD
Toluene	<1	ug/l		12/23/09	BD
1,1,1-Trichloroethane	<1	ug/l		12/23/09	BD
1,1,2-Trichloroethane	<1	ug/l		12/23/09	BD
Trichloroethene	<1	ug/l		12/23/09	BD
Vinyl chloride	<1	ug/l		12/23/09	BD
Xylenes (Total)	<1	ug/l		12/23/09	BD
Surrogate (4-BFB)	100	%R		12/23/09	BD
Surrogate (Tol-d8)	95	%R		12/23/09	BD
Surrogate (1,2-DCA-d4)	116	%R		12/23/09	BD

-- LABORATORY ANALYSIS REPORT --

Plumley Engineering Baldwinsville, NY

Sample ID: MW-1 LSL Sample ID: 0923086-002

Location:

Sampled: 12/15/09 13:29 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		12/23/09	BD
Benzene	<1	ug/l		12/23/09	BD
Bromodichloromethane	<1	ug/l		12/23/09	BD
Bromoform	<1	ug/l		12/23/09	BD
Bromomethane	<1	ug/l		12/23/09	BD
2-Butanone (MEK)	<10	ug/l		12/23/09	BD
Carbon disulfide	<1	ug/l		12/23/09	BD
Carbon tetrachloride	<1	ug/l		12/23/09	BD
Chlorobenzene	<1	ug/l		12/23/09	BD
Chloroethane	<1	ug/l		12/23/09	BD
Chloroform	<1	ug/l		12/23/09	BD
Chloromethane	<1	ug/l		12/23/09	BD
Dibromochloromethane	<1	ug/l		12/23/09	BD
1,1-Dichloroethane	<1	ug/l		12/23/09	BD
1,2-Dichloroethane	<1	ug/l		12/23/09	BD
1,1-Dichloroethene	<1	ug/l		12/23/09	BD
1,2-Dichloroethene, Total	67	ug/l		12/23/09	BD
1,2-Dichloropropane	<1	ug/l		12/23/09	BD
cis-1,3-Dichloropropene	<1	ug/l		12/23/09	BD
trans-1,3-Dichloropropene	<1	ug/l		12/23/09	BD
Ethyl benzene	<1	ug/l		12/23/09	BD
2-Hexanone	<10	ug/l		12/23/09	BD
Methylene chloride	<1	ug/l		12/23/09	BD
4-Methyl-2-pentanone (MIBK)	<10	ug/l		12/23/09	BD
Styrene	<1	ug/l		12/23/09	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		12/23/09	BD
<i>As per NELAC regulation, disclosure of the following condition is required; *The result of the laboratory control sample for this analyte was less than the established limit.</i>					
Tetrachloroethene	18	ug/l		12/23/09	BD
Toluene	<1	ug/l		12/23/09	BD
1,1,1-Trichloroethane	<1	ug/l		12/23/09	BD
1,1,2-Trichloroethane	<1	ug/l		12/23/09	BD
Trichloroethene	24	ug/l		12/23/09	BD
Vinyl chloride	7.8	ug/l		12/23/09	BD
Xylenes (Total)	<1	ug/l		12/23/09	BD
Surrogate (4-BFB)	101	%R		12/23/09	BD
Surrogate (Tol-d8)	94	%R		12/23/09	BD
Surrogate (1,2-DCA-d4)	116	%R		12/23/09	BD

-- LABORATORY ANALYSIS REPORT --

Plumley Engineering Baldwinsville, NY

Sample ID:	MW-2	LSL Sample ID:	0923086-003
Location:			
Sampled:	12/15/09 13:59	Sampled By:	Client
Sample Matrix:	NPW		

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
<i>(1) EPA 8260B TCL Volatiles</i>					
Acetone	<20	ug/l		12/23/09	BD
Benzene	<2	ug/l		12/23/09	BD
Bromodichloromethane	<2	ug/l		12/23/09	BD
Bromoform	<2	ug/l		12/23/09	BD
Bromomethane	<2	ug/l		12/23/09	BD
2-Butanone (MEK)	<20	ug/l		12/23/09	BD
Carbon disulfide	<2	ug/l		12/23/09	BD
Carbon tetrachloride	<2	ug/l		12/23/09	BD
Chlorobenzene	<2	ug/l		12/23/09	BD
Chloroethane	<2	ug/l		12/23/09	BD
Chloroform	<2	ug/l		12/23/09	BD
Chloromethane	<2	ug/l		12/23/09	BD
Dibromochloromethane	<2	ug/l		12/23/09	BD
1,1-Dichloroethane	<2	ug/l		12/23/09	BD
1,2-Dichloroethane	<2	ug/l		12/23/09	BD
1,1-Dichloroethene	<2	ug/l		12/23/09	BD
1,2-Dichloroethene, Total	92	ug/l		12/23/09	BD
1,2-Dichloropropane	<2	ug/l		12/23/09	BD
cis-1,3-Dichloropropene	<2	ug/l		12/23/09	BD
trans-1,3-Dichloropropene	<2	ug/l		12/23/09	BD
Ethyl benzene	<2	ug/l		12/23/09	BD
2-Hexanone	<20	ug/l		12/23/09	BD
Methylene chloride	<2	ug/l		12/23/09	BD
4-Methyl-2-pentanone (MIBK)	<20	ug/l		12/23/09	BD
Styrene	<2	ug/l		12/23/09	BD
1,1,2,2-Tetrachloroethane	<2	ug/l		12/23/09	BD
<i>As per NELAC regulation, disclosure of the following condition is required: *The result of the laboratory control sample for this analyte was less than the established limit.</i>					
Tetrachloroethene	50	ug/l		12/23/09	BD
Toluene	<2	ug/l		12/23/09	BD
1,1,1-Trichloroethane	<2	ug/l		12/23/09	BD
1,1,2-Trichloroethane	<2	ug/l		12/23/09	BD
Trichloroethene	59	ug/l		12/23/09	BD
Vinyl chloride	19	ug/l		12/23/09	BD
Xylenes (Total)	<2	ug/l		12/23/09	BD
Surrogate (4-BFB)	102	%R		12/23/09	BD
Surrogate (Tol-d8)	93	%R		12/23/09	BD
Surrogate (1,2-DCA-d4)	115	%R		12/23/09	BD

- - LABORATORY ANALYSIS REPORT - -

Plumley Engineering Baldwinsville, NY

Sample ID: MW-3 LSL Sample ID: 0923086-004

Location:

Sampled: 12/15/09 13:51 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
<i>(1) EPA 8260B TCL Volatiles</i>					
Acetone	<20	ug/l		12/23/09	BD
Benzene	<2	ug/l		12/23/09	BD
Bromodichloromethane	<2	ug/l		12/23/09	BD
Bromoform	<2	ug/l		12/23/09	BD
Bromomethane	<2	ug/l		12/23/09	BD
2-Butanone (MEK)	<20	ug/l		12/23/09	BD
Carbon disulfide	<2	ug/l		12/23/09	BD
Carbon tetrachloride	<2	ug/l		12/23/09	BD
Chlorobenzene	<2	ug/l		12/23/09	BD
Chloroethane	<2	ug/l		12/23/09	BD
Chloroform	<2	ug/l		12/23/09	BD
Chloromethane	<2	ug/l		12/23/09	BD
Dibromochloromethane	<2	ug/l		12/23/09	BD
1,1-Dichloroethane	<2	ug/l		12/23/09	BD
1,2-Dichloroethane	<2	ug/l		12/23/09	BD
1,1-Dichloroethene	<2	ug/l		12/23/09	BD
1,2-Dichloroethene, Total	48	ug/l		12/23/09	BD
1,2-Dichloropropane	<2	ug/l		12/23/09	BD
cis-1,3-Dichloropropene	<2	ug/l		12/23/09	BD
trans-1,3-Dichloropropene	<2	ug/l		12/23/09	BD
Ethyl benzene	<2	ug/l		12/23/09	BD
2-Hexanone	<20	ug/l		12/23/09	BD
Methylene chloride	<2	ug/l		12/23/09	BD
4-Methyl-2-pentanone (MIBK)	<20	ug/l		12/23/09	BD
Styrene	<2	ug/l		12/23/09	BD
1,1,2,2-Tetrachloroethane	<2	ug/l		12/23/09	BD
<i>As per NELAC regulation, disclosure of the following condition is required; *The result of the laboratory control sample for this analyte was less than the established limit.</i>					
Tetrachloroethene	12	ug/l		12/23/09	BD
Toluene	<2	ug/l		12/23/09	BD
1,1,1-Trichloroethane	<2	ug/l		12/23/09	BD
1,1,2-Trichloroethane	<2	ug/l		12/23/09	BD
Trichloroethene	18	ug/l		12/23/09	BD
Vinyl chloride	6.7	ug/l		12/23/09	BD
Xylenes (Total)	<2	ug/l		12/23/09	BD
Surrogate (4-BFB)	102	%R		12/23/09	BD
Surrogate (Tol-d8)	93	%R		12/23/09	BD
Surrogate (1,2-DCA-d4)	112	%R		12/23/09	BD

- - LABORATORY ANALYSIS REPORT - -

Plumley Engineering Baldwinsville, NY

Sample ID: TW-5 LSL Sample ID: 0923086-005
Location:
Sampled: 12/15/09 13:36 Sampled By: Client
Sample Matrix: NPW

Analytical Method	Prep	Analysis	Analyst
Analyte	Date	Date & Time	Initials
(1) EPA 8260B TCL Volatiles			
Acetone	<10 ug/l	12/23/09	BD
Benzene	<1 ug/l	12/23/09	BD
Bromodichloromethane	<1 ug/l	12/23/09	BD
Bromoform	<1 ug/l	12/23/09	BD
Bromomethane	<1 ug/l	12/23/09	BD
2-Butanone (MEK)	<10 ug/l	12/23/09	BD
Carbon disulfide	<1 ug/l	12/23/09	BD
Carbon tetrachloride	<1 ug/l	12/23/09	BD
Chlorobenzene	<1 ug/l	12/23/09	BD
Chloroethane	<1 ug/l	12/23/09	BD
Chloroform	<1 ug/l	12/23/09	BD
Chloromethane	<1 ug/l	12/23/09	BD
Dibromochloromethane	<1 ug/l	12/23/09	BD
1,1-Dichloroethane	<1 ug/l	12/23/09	BD
1,2-Dichloroethane	<1 ug/l	12/23/09	BD
1,1-Dichloroethene	<1 ug/l	12/23/09	BD
1,2-Dichloroethene, Total	16 ug/l	12/23/09	BD
1,2-Dichloropropane	<1 ug/l	12/23/09	BD
cis-1,3-Dichloropropene	<1 ug/l	12/23/09	BD
trans-1,3-Dichloropropene	<1 ug/l	12/23/09	BD
Ethyl benzene	<1 ug/l	12/23/09	BD
2-Hexanone	<10 ug/l	12/23/09	BD
Methylene chloride	<1 ug/l	12/23/09	BD
4-Methyl-2-pentanone (MIBK)	<10 ug/l	12/23/09	BD
Styrene	<1 ug/l	12/23/09	BD
1,1,2,2-Tetrachloroethane	<1 ug/l	12/23/09	BD
<i>As per NELAC regulation, disclosure of the following condition is required: *The result of the laboratory control sample for this analyte was less than the established limit.</i>			
Tetrachloroethene	3.4 ug/l	12/23/09	BD
Toluene	<1 ug/l	12/23/09	BD
1,1,1-Trichloroethane	<1 ug/l	12/23/09	BD
1,1,2-Trichloroethane	<1 ug/l	12/23/09	BD
Trichloroethene	5.6 ug/l	12/23/09	BD
Vinyl chloride	1 ug/l	12/23/09	BD
Xylenes (Total)	<1 ug/l	12/23/09	BD
Surrogate (4-BFB)	98 %R	12/23/09	BD
Surrogate (Tol-d8)	93 %R	12/23/09	BD
Surrogate (1,2-DCA-d4)	112 %R	12/23/09	BD

-- LABORATORY ANALYSIS REPORT --

Plumley Engineering Baldwinsville, NY

Sample ID: MW-10 LSL Sample ID: 0923086-006

Location:

Sampled: 12/15/09 13:22 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	
(1) EPA 8260B TCL Volatiles			
Acetone	<10	ug/l	BD
Benzene	<1	ug/l	BD
Bromodichloromethane	<1	ug/l	BD
Bromoform	<1	ug/l	BD
Bromomethane	<1	ug/l	BD
2-Butanone (MEK)	<10	ug/l	BD
Carbon disulfide	<1	ug/l	BD
Carbon tetrachloride	<1	ug/l	BD
Chlorobenzene	<1	ug/l	BD
Chloroethane	<1	ug/l	BD
Chloroform	<1	ug/l	BD
Chloromethane	<1	ug/l	BD
Dibromochloromethane	<1	ug/l	BD
1,1-Dichloroethane	<1	ug/l	BD
1,2-Dichloroethane	<1	ug/l	BD
1,1-Dichloroethene	<1	ug/l	BD
1,2-Dichloroethene, Total	46	ug/l	BD
1,2-Dichloropropane	<1	ug/l	BD
cis-1,3-Dichloropropene	<1	ug/l	BD
trans-1,3-Dichloropropene	<1	ug/l	BD
Ethyl benzene	<1	ug/l	BD
2-Hexanone	<10	ug/l	BD
Methylene chloride	<1	ug/l	BD
4-Methyl-2-pentanone (MIBK)	<10	ug/l	BD
Styrene	<1	ug/l	BD
1,1,2,2-Tetrachloroethane	<1	ug/l	BD
<i>As per NELAC regulation, disclosure of the following condition is required: *The result of the laboratory control sample for this analyte was less than the established limit.</i>			
Tetrachloroethene	<1	ug/l	BD
Toluene	<1	ug/l	BD
1,1,1-Trichloroethane	<1	ug/l	BD
1,1,2-Trichloroethane	<1	ug/l	BD
Trichloroethene	3.4	ug/l	BD
Vinyl chloride	4.3	ug/l	BD
Xylenes (Total)	<1	ug/l	BD
Surrogate (4-BFB)	100	%R	BD
Surrogate (Tol-d8)	92	%R	BD
Surrogate (1,2-DCA-d4)	112	%R	BD

-- LABORATORY ANALYSIS REPORT --

Plumley Engineering Baldwinsville, NY

Sample ID: MW-11 LSL Sample ID: 0923086-007

Location:

Sampled: 12/15/09 13:04 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
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(1) EPA 8260B TCL Volatiles

Acetone	<10	ug/l		12/23/09	BD
Benzene	<1	ug/l		12/23/09	BD
Bromodichloromethane	<1	ug/l		12/23/09	BD
Bromoform	<1	ug/l		12/23/09	BD
Bromomethane	<1	ug/l		12/23/09	BD
2-Butanone (MEK)	<10	ug/l		12/23/09	BD
Carbon disulfide	<1	ug/l		12/23/09	BD
Carbon tetrachloride	<1	ug/l		12/23/09	BD
Chlorobenzene	<1	ug/l		12/23/09	BD
Chloroethane	<1	ug/l		12/23/09	BD
Chloroform	<1	ug/l		12/23/09	BD
Chloromethane	<1	ug/l		12/23/09	BD
Dibromochloromethane	<1	ug/l		12/23/09	BD
1,1-Dichloroethane	<1	ug/l		12/23/09	BD
1,2-Dichloroethane	<1	ug/l		12/23/09	BD
1,1-Dichloroethene	<1	ug/l		12/23/09	BD
1,2-Dichloroethene, Total	<1	ug/l		12/23/09	BD
1,2-Dichloropropane	<1	ug/l		12/23/09	BD
cis-1,3-Dichloropropene	<1	ug/l		12/23/09	BD
trans-1,3-Dichloropropene	<1	ug/l		12/23/09	BD
Ethyl benzene	<1	ug/l		12/23/09	BD
2-Hexanone	<10	ug/l		12/23/09	BD
Methylene chloride	<1	ug/l		12/23/09	BD
4-Methyl-2-pentanone (MIBK)	<10	ug/l		12/23/09	BD
Styrene	<1	ug/l		12/23/09	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		12/23/09	BD

As per NELAC regulation, disclosure of the following condition is required: *The result of the laboratory control sample for this analyte was less than the established limit.

Tetrachloroethene	<1	ug/l		12/23/09	BD
Toluene	<1	ug/l		12/23/09	BD
1,1,1-Trichloroethane	<1	ug/l		12/23/09	BD
1,1,2-Trichloroethane	<1	ug/l		12/23/09	BD
Trichloroethene	<1	ug/l		12/23/09	BD
Vinyl chloride	<1	ug/l		12/23/09	BD
Xylenes (Total)	<1	ug/l		12/23/09	BD
Surrogate (4-BFB)	100	%R		12/23/09	BD
Surrogate (Tol-d8)	93	%R		12/23/09	BD
Surrogate (1,2-DCA-d4)	109	%R		12/23/09	BD

- - LABORATORY ANALYSIS REPORT - -

Plumley Engineering Baldwinsville, NY

Sample ID: MW-12	LSL Sample ID: 0923086-008
Location:	
Sampled: 12/15/09 13:42	Sampled By: Client
Sample Matrix: NPW	

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
<i>(1) EPA 8260B TCL Volatiles</i>					
Acetone	<10	ug/l		12/23/09	BD
Benzene	<1	ug/l		12/23/09	BD
Bromodichloromethane	<1	ug/l		12/23/09	BD
Bromoform	<1	ug/l		12/23/09	BD
Bromomethane	<1	ug/l		12/23/09	BD
2-Butanone (MEK)	<10	ug/l		12/23/09	BD
Carbon disulfide	<1	ug/l		12/23/09	BD
Carbon tetrachloride	<1	ug/l		12/23/09	BD
Chlorobenzene	<1	ug/l		12/23/09	BD
Chloroethane	<1	ug/l		12/23/09	BD
Chloroform	<1	ug/l		12/23/09	BD
Chloromethane	<1	ug/l		12/23/09	BD
Dibromochloromethane	<1	ug/l		12/23/09	BD
1,1-Dichloroethane	<1	ug/l		12/23/09	BD
1,2-Dichloroethane	<1	ug/l		12/23/09	BD
1,1-Dichloroethene	<1	ug/l		12/23/09	BD
1,2-Dichloroethene, Total	120	ug/l		12/23/09	BD
1,2-Dichloropropane	<1	ug/l		12/23/09	BD
cis-1,3-Dichloropropene	<1	ug/l		12/23/09	BD
trans-1,3-Dichloropropene	<1	ug/l		12/23/09	BD
Ethyl benzene	<1	ug/l		12/23/09	BD
2-Hexanone	<10	ug/l		12/23/09	BD
Methylene chloride	<1	ug/l		12/23/09	BD
4-Methyl-2-pentanone (MIBK)	<10	ug/l		12/23/09	BD
Styrene	<1	ug/l		12/23/09	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		12/23/09	BD
<i>As per NELAC regulation, disclosure of the following condition is required; *The result of the laboratory control sample for this analyte was less than the established limit.</i>					
Tetrachloroethene	39	ug/l		12/23/09	BD
Toluene	<1	ug/l		12/23/09	BD
1,1,1-Trichloroethane	<1	ug/l		12/23/09	BD
1,1,2-Trichloroethane	<1	ug/l		12/23/09	BD
Trichloroethene	63	ug/l		12/23/09	BD
Vinyl chloride	18	ug/l		12/23/09	BD
Xylenes (Total)	<1	ug/l		12/23/09	BD
Surrogate (4-BFB)	101	%R		12/23/09	BD
Surrogate (Tol-d8)	94	%R		12/23/09	BD
Surrogate (1,2-DCA-d4)	111	%R		12/23/09	BD

- - LABORATORY ANALYSIS REPORT - -

Plumley Engineering Baldwinsville, NY

Sample ID:	MW-14	LSL Sample ID:	0923086-009
Location:			
Sampled:	12/15/09 13:13	Sampled By:	Client
Sample Matrix:	NPW		

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
<i>(1) EPA 8260B TCL Volatiles</i>					
Acetone	<10	ug/l		12/24/09	BD
Benzene	<1	ug/l		12/24/09	BD
Bromodichloromethane	<1	ug/l		12/24/09	BD
Bromoform	<1	ug/l		12/24/09	BD
Bromomethane	<1	ug/l		12/24/09	BD
2-Butanone (MEK)	<10	ug/l		12/24/09	BD
Carbon disulfide	<1	ug/l		12/24/09	BD
Carbon tetrachloride	<1	ug/l		12/24/09	BD
Chlorobenzene	<1	ug/l		12/24/09	BD
Chloroethane	<1	ug/l		12/24/09	BD
Chloroform	<1	ug/l		12/24/09	BD
Chloromethane	<1	ug/l		12/24/09	BD
Dibromochloromethane	<1	ug/l		12/24/09	BD
1,1-Dichloroethane	<1	ug/l		12/24/09	BD
1,2-Dichloroethane	<1	ug/l		12/24/09	BD
1,1-Dichloroethene	<1	ug/l		12/24/09	BD
1,2-Dichloroethene, Total	9.0	ug/l		12/24/09	BD
1,2-Dichloropropane	<1	ug/l		12/24/09	BD
cis-1,3-Dichloropropene	<1	ug/l		12/24/09	BD
trans-1,3-Dichloropropene	<1	ug/l		12/24/09	BD
Ethyl benzene	<1	ug/l		12/24/09	BD
2-Hexanone	<10	ug/l		12/24/09	BD
Methylene chloride	<1	ug/l		12/24/09	BD
4-Methyl-2-pentanone (MIBK)	<10	ug/l		12/24/09	BD
Styrene	<1	ug/l		12/24/09	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		12/24/09	BD
<i>As per NELAC regulation, disclosure of the following condition is required; *The result of the laboratory control sample for this analyte was less than the established limit.</i>					
Tetrachloroethene	<1	ug/l		12/24/09	BD
Toluene	<1	ug/l		12/24/09	BD
1,1,1-Trichloroethane	<1	ug/l		12/24/09	BD
1,1,2-Trichloroethane	<1	ug/l		12/24/09	BD
Trichloroethene	<1	ug/l		12/24/09	BD
Vinyl chloride	6.5	ug/l		12/24/09	BD
Xylenes (Total)	<1	ug/l		12/24/09	BD
Surrogate (4-BFB)	100	%R		12/24/09	BD
Surrogate (Tol-d8)	91	%R		12/24/09	BD
Surrogate (1,2-DCA-d4)	109	%R		12/24/09	BD

- - LABORATORY ANALYSIS REPORT - -

Plumley Engineering Baldwinsville, NY

Sample ID:	MW-18	LSL Sample ID:	0923086-010
Location:			
Sampled:	12/15/09 12:56	Sampled By:	Client
Sample Matrix:	NPW		

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
<i>(1) EPA 8260B TCL Volatiles</i>					
Acetone	<10	ug/l		12/24/09	BD
Benzene	<1	ug/l		12/24/09	BD
Bromodichloromethane	<1	ug/l		12/24/09	BD
Bromoform	<1	ug/l		12/24/09	BD
Bromomethane	<1	ug/l		12/24/09	BD
2-Butanone (MEK)	<10	ug/l		12/24/09	BD
Carbon disulfide	<1	ug/l		12/24/09	BD
Carbon tetrachloride	<1	ug/l		12/24/09	BD
Chlorobenzene	<1	ug/l		12/24/09	BD
Chloroethane	<1	ug/l		12/24/09	BD
Chloroform	<1	ug/l		12/24/09	BD
Chloromethane	<1	ug/l		12/24/09	BD
Dibromochloromethane	<1	ug/l		12/24/09	BD
1,1-Dichloroethane	<1	ug/l		12/24/09	BD
1,2-Dichloroethane	<1	ug/l		12/24/09	BD
1,1-Dichloroethene	<1	ug/l		12/24/09	BD
1,2-Dichloroethene, Total	5.4	ug/l		12/24/09	BD
1,2-Dichloropropane	<1	ug/l		12/24/09	BD
cis-1,3-Dichloropropene	<1	ug/l		12/24/09	BD
trans-1,3-Dichloropropene	<1	ug/l		12/24/09	BD
Ethyl benzene	<1	ug/l		12/24/09	BD
2-Hexanone	<10	ug/l		12/24/09	BD
Methylene chloride	<1	ug/l		12/24/09	BD
4-Methyl-2-pentanone (MIBK)	<10	ug/l		12/24/09	BD
Styrene	<1	ug/l		12/24/09	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		12/24/09	BD
<i>As per NELAC regulation, disclosure of the following condition is required; *The result of the laboratory control sample for this analyte was less than the established limit.</i>					
Tetrachloroethene	<1	ug/l		12/24/09	BD
Toluene	<1	ug/l		12/24/09	BD
1,1,1-Trichloroethane	<1	ug/l		12/24/09	BD
1,1,2-Trichloroethane	<1	ug/l		12/24/09	BD
Trichloroethene	<1	ug/l		12/24/09	BD
Vinyl chloride	1.7	ug/l		12/24/09	BD
Xylenes (Total)	<1	ug/l		12/24/09	BD
Surrogate (4-BFB)	97	%R		12/24/09	BD
Surrogate (Tol-d8)	88	%R		12/24/09	BD
Surrogate (1,2-DCA-d4)	110	%R		12/24/09	BD

- - LABORATORY ANALYSIS REPORT - -

Plumley Engineering Baldwinsville, NY

Sample ID:	Trip Blank	LSL Sample ID:	0923086-011
Location:			
Sampled:	12/15/09 0:00	Sampled By:	
Sample Matrix:	TB		

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
<i>(1) EPA 8260B TCL Volatiles</i>					
Acetone	<10	ug/l		12/24/09	BD
Benzene	<1	ug/l		12/24/09	BD
Bromodichloromethane	<1	ug/l		12/24/09	BD
Bromoform	<1	ug/l		12/24/09	BD
Bromomethane	<1	ug/l		12/24/09	BD
2-Butanone (MEK)	<10	ug/l		12/24/09	BD
Carbon disulfide	<1	ug/l		12/24/09	BD
Carbon tetrachloride	<1	ug/l		12/24/09	BD
Chlorobenzene	<1	ug/l		12/24/09	BD
Chloroethane	<1	ug/l		12/24/09	BD
Chloroform	<1	ug/l		12/24/09	BD
Chloromethane	<1	ug/l		12/24/09	BD
Dibromochloromethane	<1	ug/l		12/24/09	BD
1,1-Dichloroethane	<1	ug/l		12/24/09	BD
1,2-Dichloroethane	<1	ug/l		12/24/09	BD
1,1-Dichloroethene	<1	ug/l		12/24/09	BD
1,2-Dichloroethene, Total	<1	ug/l		12/24/09	BD
1,2-Dichloropropane	<1	ug/l		12/24/09	BD
cis-1,3-Dichloropropene	<1	ug/l		12/24/09	BD
trans-1,3-Dichloropropene	<1	ug/l		12/24/09	BD
Ethyl benzene	<1	ug/l		12/24/09	BD
2-Hexanone	<10	ug/l		12/24/09	BD
Methylene chloride	<1	ug/l		12/24/09	BD
4-Methyl-2-pentanone (MIBK)	<10	ug/l		12/24/09	BD
Styrene	<1	ug/l		12/24/09	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		12/24/09	BD
<i>As per NELAC regulation, disclosure of the following condition is required: *The result of the laboratory control sample for this analyte was less than the established limit.</i>					
Tetrachloroethene	<1	ug/l		12/24/09	BD
Toluene	<1	ug/l		12/24/09	BD
1,1,1-Trichloroethane	<1	ug/l		12/24/09	BD
1,1,2-Trichloroethane	<1	ug/l		12/24/09	BD
Trichloroethene	<1	ug/l		12/24/09	BD
Vinyl chloride	<1	ug/l		12/24/09	BD
Xylenes (Total)	<1	ug/l		12/24/09	BD
Surrogate (4-BFB)	96	%R		12/24/09	BD
Surrogate (Tol-d8)	91	%R		12/24/09	BD
Surrogate (1,2-DCA-d4)	110	%R		12/24/09	BD



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	70-130	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	TCMX, DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Terphenyl-d14	40-110	40-110
DOH 310-14	Terphenyl-d14	40-110	40-110
DOH 310-15	Terphenyl-d14	40-110	40-110
DOH 310-34	4-BFB	50-150	50-150
DOH 313-4	DCB	NA	30-150
8015M_GRO	4-BFB	50-150	50-150
8015M_DRO	Terphenyl-d14	50-150	50-150

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

Project No.: 2008007.002		Client: Katz & Katz		Site: <u>Northstar</u> Cicero, NY		Sampler's Signature: <i>[Signature]</i>	
Sample No.	Date	Time	Origin/Source	# of Containers	Comp.	Grab	Other - Analyses/Tests Requested
001 AB CES MW-1	12/15/09	12:50pm	Monitoring Well	2		X	TCL Per EPA Method 8260
002 AB MW-1		1:29pm	Monitoring Well			X	TCL Per EPA Method 8260
003 AB MW-2		1:59pm	Monitoring Well			X	TCL Per EPA Method 8260
004 AB MW-3		1:51pm	Monitoring Well			X	TCL Per EPA Method 8260
005 AB TW-5		1:36pm	Monitoring Well			X	TCL Per EPA Method 8260
006 AB MW-10		1:22pm	Monitoring Well			X	TCL Per EPA Method 8260
007 AB MW-11		1:07pm	Monitoring Well			X	TCL Per EPA Method 8260
008 AB MW-12		1:42pm	Monitoring Well			X	TCL Per EPA Method 8260
009 AB MW-14		1:13pm	Monitoring Well			X	TCL Per EPA Method 8260
010 AB MW-18		12:56pm	Monitoring Well			X	TCL Per EPA Method 8260
011 AB Trip Blank			Monitoring Well			X	TCL Per EPA Method 8260

Turn Around Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 3 Work Days <input type="checkbox"/> 4 Work Days <input type="checkbox"/> 5 Work Days <input type="checkbox"/> Normal <input type="checkbox"/> Other _____	Received by: Signature: _____ Print: _____ Date/Time: 12/15/09 3:44pm	Relinquished by: Signature: _____ Print: _____ Date/Time: 12-15-09 15:48 RCVD
Lab Signature: _____		
Remarks: Failure to adhere to quoted TATs shall result in reduction of the invoice to the next available billing rate for the specified analysis and 10% reduction in the invoice for this COC.		



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GROUNDWATER CONTOUR MAP

