GEI Consultants

Consulting
Engineers and
Scientists

December 21, 2016

VIA EMAIL: john.miller@dec.ny.gov

Mr. John B. Miller, P.E.
New York State Department of Environmental Conservation
Remedial Bureau C
625 Broadway, 11th Floor
Albany, NY 12233-7014

Re: Groundwater Sampling Results
Former Safety Kleen Dry Cleaners Site (336078)
Vails Gate, Orange County, NY

Dear Mr. Miller,

GEI Consultants, Inc., P. C. has prepared this interim data report to present the results of the recent groundwater sampling completed at the Former Safety Kleen Dry Cleaners Site located in Vails Gate, New York (**Figure 1**). The groundwater sampling was conducted in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved Additional Investigation Work Plan, dated August 3, 2016. In accordance with our discussion on November 10, 2016, we are providing this interim data report and evaluation to determine the most effective course of action for completing the feasibility study at this site.

Existing Monitoring Well Sampling

The existing monitoring wells located on **Figure 1** were sampled on November 10, 2016 using low-flow groundwater sampling procedures, where possible. Two of the monitoring wells, MW-1 and MW-7, ran dry during the low flow sampling. The wells were allowed to recharge and a second attempt was made to collect the samples using low-flow groundwater sampling procedures. At both locations, the wells were unable to sustain a constant flow required for low-flow sampling and a grab sample was collected.

Groundwater samples were analyzed for the following:

- Volatile Organic Compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260C
- Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270D
- Total Analyte List (TAL) metals via USEPA Method 6010 and USEPA Method 7470A – unfiltered and filtered samples will be collected
- Chemical Oxygen Demand
- Dissolved Iron
- Dissolved Manganese

110 Walt Whitman Road, Suite 204
Huntington Station, New York 11746
631.760.9300 fax: 631.760.9301

Groundwater Analytical Results

The full analytical results of the 2016 groundwater sampling is included in **Table 1**. A comparison of the VOC detections in groundwater between the 2011 and 2016 data sets is included in **Table 2**.

Tetrachloroethene (PCE) was detected in perched water samples collected from three monitoring wells in 2011 (MW-7, MW-2, and MW-1R). The concentrations detected in 2016 at all three wells still exceed the New York State Ambient Water Quality Standards (AWQS) for GA groundwater of 5 micrograms per liter (µg/L).

- The concentration of PCE detected in MW-7 decreased four orders of magnitude from 127,000 µg/L to 45 µg/L. This well is located immediately adjacent to the former dry cleaning operations and equipment.
- The concentration of PCE detected in MW-2 decreased two orders of magnitude from 1,650 µg/L to 30 µg/L. Based on the survey in the RI, this well is located downgradient of the former dry cleaner.
- The concentration of PCE detected in MW-1 increased from 22.8 µg/L to 460 D µg/L. Based on the survey in the RI, this well is located upgradient of the former dry cleaner.

Trichloroethene (TCE) was detected at concentrations greater than the AWQS of 5 µg/L in perched water samples collected from two monitoring wells in 2011 (MW-7 and MW-2). TCE was not detected at concentrations greater than the AWQS of 5 µg/L in any of the wells in 2016.

- The concentration of TCE detected in MW-7 decreased from 151 µg/L to non detect. This well is located immediately adjacent to the former dry cleaning operations and equipment.
- The concentration of TCE detected in MW-2 decreased from 25.1 µg/L to 3.7 µg/L. Based on the survey in the RI, this well is located downgradient of the former dry cleaner.

Cis-1,2-Dichloroethene (DCE) was detected at a concentration greater than the AWQS of 5 µg/L in the perched water sample collected from monitoring well MW-2 in 2011. The concentrations detected in 2016 at all three wells (MW-1R, MW-2, and MW-7) exceed the AWQS of 5 µg/L.

- The concentration of DCE detected in MW-2 remained consistent between 2011 (25.1 µg/L) and 2016 (46 µg/L). Based on the survey in the RI, this well is located downgradient of the former dry cleaner.
- The concentration of DCE detected in MW-7 increased from 1.39 µg/L to 20 µg/L. This well is located immediately adjacent to the former dry cleaning operations and equipment.
- The concentration of DCE detected in MW-1 increased from non-detect µg/L to 6.7 µg/L. Based on the survey in the RI, this well is located upgradient of the former dry cleaner.

Vinyl Chloride (VC) was detected at a concentration greater than the AWQS of 5 µg/L in the perched water sample collected from monitoring well MW-2 in 2011. The concentration of TCE detected in MW-2 remained consistent between 2011 (151 µg/L) and 2016 (150 µg/L). Based on the survey in the Remedial Investigation, this well is located downgradient of the former dry cleaner.

In addition to the chlorinated VOCs identified during the previous investigation, a number of petroleum-related compounds were detected at concentrations which exceed the AWQS at MW-7 in 2016. These compounds were either not detected or not analyzed in the previous sampling in 2011.

Preliminary In-Situ Chemical Oxidation (ISCO) Evaluation

As noted in the approved work plan, the site conditions, restrictions, and lithology, described in the previous site documents indicate that ISCO may not be effective at addressing the contamination at the site.

The groundwater sampling included an assessment of natural organic matter and dissolved iron as these can interfere with the effectiveness of an ISCO remediation. The Chemical Oxygen Demand (COD) in the groundwater samples ranged from 49,000 µg/L to 1,400,000 µg/L. Dissolved iron analysis was run on both a filtered and unfiltered sample. The concentration of iron in the filtered sample ranged from 47 to µg/L to 346 µg/L. The unfiltered sample contained suspended solids from the soil matrix and the resulting concentrations were much higher ranging from 1,940 µg/L to 258,000 µg/L. This limited data set indicates that the COD of the soil will likely be higher than the COD of the groundwater.

As noted above, monitoring wells MW-7 and MW-1R did not have sufficient groundwater flow to sustain low flow sampling. These wells are set perched groundwater zone consisting of a sandy clay layer which was observed between 5 and 9 feet below ground surface (ft bgs). The lithology above and below this layer is a brown, silty clay with rock fragments to a depth of 17 ft bgs. These wells are located in the likely treatment area target zone. The lack of groundwater flow in this zone observed during sampling will be a severe detriment to the ability to inject sufficient oxidant into the formation and the limit the diffusion of oxidants in the groundwater. Based on this data, ISCO does not appear to be an applicable.

Conclusions

In general, the high concentrations of chlorinated VOCs detected at the source area (MW-7) and area immediately downgradient (MW-2) in the 2011 were significantly lower in the samples collected in 2016. As noted in the FS, the Sub-Slab Depressurization System (SSDS), which has been in operation since 2013, has been effective at reducing the chlorinated VOC concentrations in soil vapor and indoor air. The soil vapor concentrations at the locations closest to the former dry cleaner release have decreased over 95% since the SSDS was implemented. The indoor air concentrations at the locations closest to the former dry cleaner release have decreased over 94% since the SSDS was implemented. The documented reductions in groundwater, soil vapor, and indoor air confirm that the SSDS has been effective in reducing the contamination at the site.

The concentration of chlorinated VOCs detected in the recent groundwater sampling do not appear significant enough to warrant an aggressive ISCO remediation. The SSDS that is in place has been effectively addressing the source area.

Based on the data collected from the groundwater monitoring wells and the preliminary evaluation of ISCO described above, GEI recommends the following:

- GEI does not recommend continuing with the collection of additional data to evaluate the feasibility of an ISCO remedial alternative. The data collected is sufficient for completing a technology evaluation of ISCO. The data collected indicates that ISCO would not be an effective remedial technology for use at this site.

- The data collected to date will be included in a revised FS.
- An evaluation of ISCO will be presented in the technology screening section of the FS. Based on the data above, ISCO would not be an effective technology at this site and will be ruled out in this section of the revised FS.
- A remedial alternative including full scale ISCO will not be presented in the revised FS.

If you have any questions, please feel free to contact either Nicholas Recchia at 631-759-2973 (nrecchia@geiconsultants.com) or Matt O'Neil at 401-533-5152 (moneil@geiconsultants.com).

Sincerely,

GEI CONSULTANTS, INC., P.C.

Nicholas Recchia, P.G.
Environmental Practice Leader
Hydrogeologist

Matthew O'Neil, P.E.
Project Engineer

MJO/NJR:gd
Attachments

cc: K. Barrett, Rosen Group

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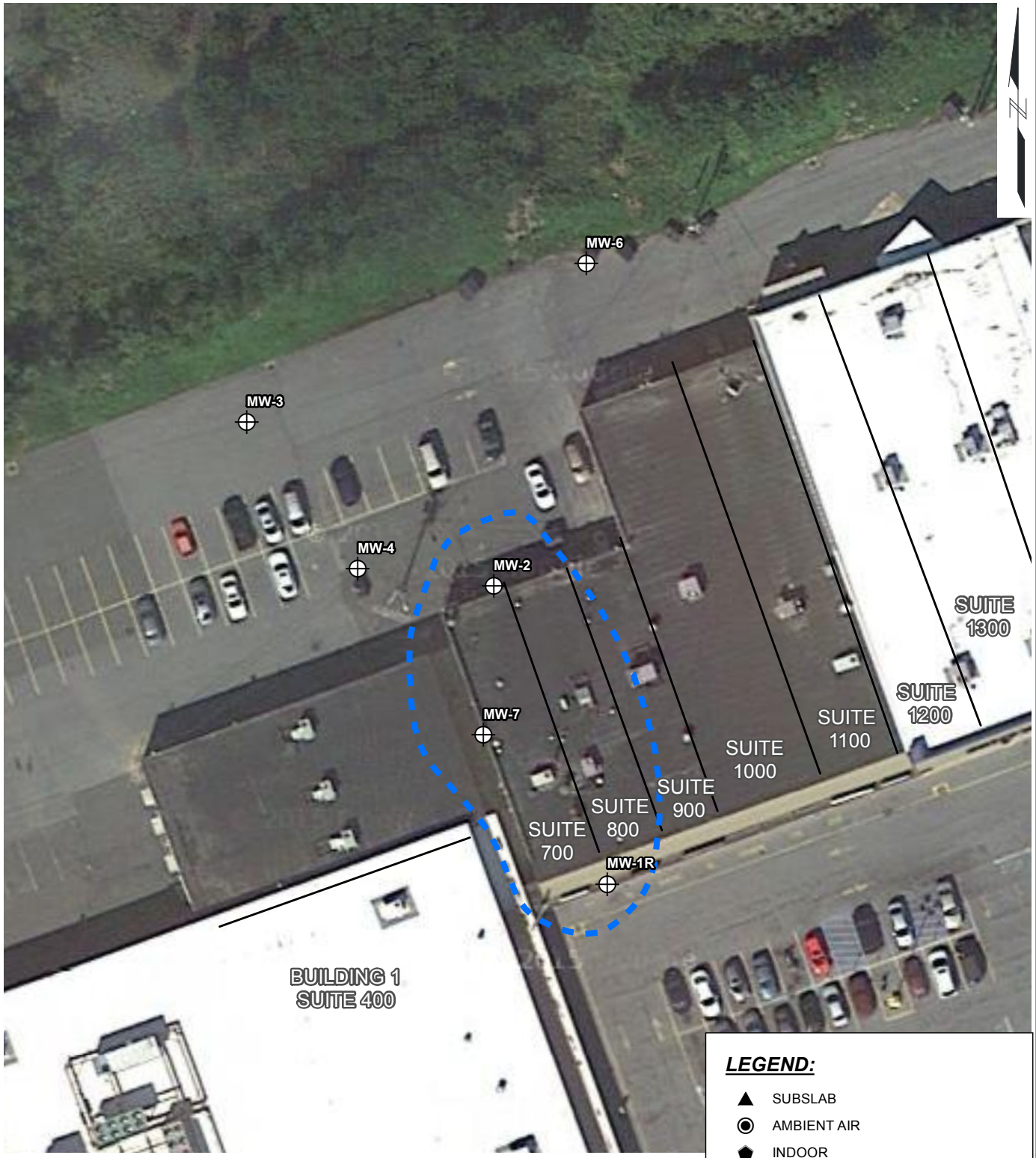

LEGEND:

- SUBSLAB
- AMBIENT AIR
- INDOOR
- SOIL BORING
- MONITORING WELL
- APPROXIMATE EXTENT OF GROUNDWATER IMPACTS

SOURCE:

1. PLAN OBTAINED FROM SOLUTECH, INC, DATED JANUARY 2012.

0 50 100

SCALE: 1" = 50'

Feasibility Study
Former Safety Kleen Dry Cleaner
115 Temple Hill Road
New Windsor, New York

The Rosen Group
Claymont, Deleware

GEI Consultants

EXTENT OF GROUNDWATER IMPACTS

Project 1602600 | December 2016 | Fig. 1

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Table 1. 2016 Groundwater Sample Analytical Results
Groundwater Sampling Summary Report
Former Safety Kleen Dry Cleaners
Vails Gate, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values -	MW-1R 11/10/2016 Water		MW-2 11/10/2016 Water		MW-3 11/10/2016 Water		MW-4 11/10/2016 Water	
Compound	**GA**	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	ug/L	ug/L		ug/L		ug/L		ug/L	
Dilution Factor		10		1		1		1	
Tetrachloroethylene	5	**460**	D	**30**		0.98		0.91	
Trichloroethylene	5	3.20		3.70		0.37	J	0.20	U
cis-1,2-Dichloroethylene	5	**6.70**		**46**		0.24	J	0.23	J
trans-1,2-Dichloroethylene	5	0.20	U	3		0.20	U	0.20	U
1,1-Dichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U
Vinyl Chloride	2	0.20	U	**150**		0.20	U	0.64	
Chloroform	7	0.25	J	0.20	U	0.20	U	0.20	U
2-Butanone	50	1.10	B	0.20	U	1.60		0.20	U
Acetone	50	18	B	1.60	JB	6.60	B	1	U
1,1,1-Trichloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U
1,1-Dichloroethylene	5	0.20	U	0.20	U	0.20	U	0.20	U
Carbon disulfide	~	0.20	U	0.20	U	0.20	U	0.20	U
Carbon tetrachloride	5	0.20	U	0.20	U	0.20	U	0.20	U
Chlorobenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
Ethyl Benzene	5	0.20	U	0.20	U	0.20	U	0.20	U
Xylenes, Total	5	0.60	U	0.60	U	0.60	U	0.60	U
Toluene	5	0.20	U	0.20	U	0.20	U	0.20	U
1,2,4-Trimethylbenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
1,3,5-Trimethylbenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
Benzene	1	0.20	U	0.20	U	0.20	U	0.20	U
Isopropylbenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
n-Butylbenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
n-Propylbenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
o-Xylene	5	0.20	U	0.20	U	0.20	U	0.20	U
p- & m- Xylenes	5	0.50	U	0.50	U	0.50	U	0.50	U
p-Isopropyltoluene	5	0.20	U	0.20	U	0.20	U	0.20	U
sec-Butylbenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
1,1,1,2-Tetrachloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U
1,1,2,2-Tetrachloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	0.20	U	0.20	U	0.20	U	0.20	U
1,1,2-Trichloroethane	1	0.20	U	0.20	U	0.20	U	0.20	U
1,2,3-Trichlorobenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
1,2,3-Trichloropropane	0.04	0.20	U	0.20	U	0.20	U	0.20	U
1,2,4-Trichlorobenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
1,2-Dibromo-3-chloropropane	0.04	0.20	U	0.20	U	0.20	U	0.20	U
1,2-Dibromoethane	5	0.20	U	0.20	U	0.20	U	0.20	U
1,2-Dichlorobenzene	3	0.20	U	0.20	U	0.20	U	0.20	U
1,2-Dichloroethane	0.6	0.20	U	0.20	U	0.20	U	0.20	U
1,2-Dichloropropane	1	0.20	U	0.20	U	0.20	U	0.20	U
1,3-Dichlorobenzene	3	0.20	U	0.20	U	0.20	U	0.20	U
1,4-Dichlorobenzene	3	0.20	U	0.20	U	0.20	U	0.20	U
1,4-Dioxane	~	40	U	40	U	40	U	40	U
2-Hexanone	50	0.20	U	0.20	U	0.20	U	0.20	U
4-Methyl-2-pentanone	~	0.20	U	0.20	U	1.20		0.20	U
Acrolein	~	0.20	U	0.20	U	0.20	U	0.20	U
Acrylonitrile	~	0.20	U	0.20	U	0.20	U	0.20	U

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Compound	**GA**	Result	Q	Result	Q	Result	Q	Result	Q
Bromochloromethane	5	0.20	U	0.20	U	0.20	U	0.20	U
Bromodichloromethane	50	0.20	U	0.20	U	0.20	U	0.20	U
Bromoform	50	0.20	U	0.20	U	0.20	U	0.20	U
Bromomethane	5	0.20	U	0.20	U	0.20	U	0.20	U
Chloroethane	5	0.20	U	0.20	U	0.20	U	0.20	U
Chloromethane	5	0.20	U	0.20	U	0.20	U	0.20	U
cis-1,3-Dichloropropylene	0.4	0.20	U	0.20	U	0.20	U	0.20	U
Cyclohexane	~	0.20	U	0.40	J	0.20	U	0.20	U
Dibromochloromethane	50	0.20	U	0.20	U	0.20	U	0.20	U
Dibromomethane	~	0.20	U	0.20	U	0.20	U	0.20	U
Dichlorodifluoromethane	5	0.20	U	0.20	U	0.20	U	0.20	U
Hexachlorobutadiene	0.5	0.20	U	0.20	U	0.20	U	0.20	U
Methyl acetate	~	0.20	U	0.20	U	0.20	U	0.20	U
Methyl tert-butyl ether (MTBE)	10	0.20	U	0.20	U	0.20	U	0.20	U
Methylcyclohexane	~	0.20	U	0.20	U	0.20	U	0.20	U
Methylene chloride	5	1	U	1	U	1	U	1	U
Styrene	5	0.20	U	0.20	U	0.20	U	0.20	U
tert-Butyl alcohol (TBA)	~	1.80	J	2.90		2	J	2.60	
tert-Butylbenzene	5	0.20	U	0.20	U	0.20	U	0.20	U
trans-1,3-Dichloropropylene	0.4	0.20	U	0.20	U	0.20	U	0.20	U
Trichlorofluoromethane	5	0.20	U	0.20	U	0.20	U	0.20	U
Semi-Volatiles, 8270 - Comprehensive	ug/L	ug/L		ug/L		ug/L		ug/L	
Dilution Factor		1		1		1		1	
1,1'-Biphenyl	~	3.12	U	2.86	U	2.86	U	2.78	U
1,2,4,5-Tetrachlorobenzene	~	3.12	U	2.86	U	2.86	U	2.78	U
1,2,4-Trichlorobenzene	5	3.12	U	2.86	U	2.86	U	2.78	U
1,2-Dichlorobenzene	3	3.12	U	2.86	U	2.86	U	2.78	U
1,2-Diphenylhydrazine (as Azobenzene)	~	3.12	U	2.86	U	2.86	U	2.78	U
1,3-Dichlorobenzene	3	3.12	U	2.86	U	2.86	U	2.78	U
1,4-Dichlorobenzene	3	3.12	U	2.86	U	2.86	U	2.78	U
2,3,4,6-Tetrachlorophenol	~	3.12	U	2.86	U	2.86	U	2.78	U
2,4,5-Trichlorophenol	1	3.12	U	2.86	U	2.86	U	2.78	U
2,4,6-Trichlorophenol	1	3.12	U	2.86	U	2.86	U	2.78	U
2,4-Dichlorophenol	5	3.12	U	2.86	U	2.86	U	2.78	U
2,4-Dimethylphenol	50	3.12	U	2.86	U	2.86	U	2.78	U
2,4-Dinitrophenol	10	3.12	U	2.86	U	2.86	U	2.78	U
2,4-Dinitrotoluene	5	3.12	U	2.86	U	2.86	U	2.78	U
2,6-Dinitrotoluene	5	3.12	U	2.86	U	2.86	U	2.78	U
2-Chloronaphthalene	10	3.12	U	2.86	U	2.86	U	2.78	U
2-Chlorophenol	1	3.12	U	2.86	U	2.86	U	2.78	U
2-Methylnaphthalene	~	3.12	U	2.86	U	2.86	U	2.78	U
2-Methylphenol	1	3.12	U	2.86	U	2.86	U	2.78	U
2-Nitroaniline	5	3.12	U	2.86	U	2.86	U	2.78	U
2-Nitrophenol	1	3.12	U	2.86	U	2.86	U	2.78	U
3- & 4-Methylphenols	~	3.12	U	2.86	U	2.86	U	2.78	U
3,3'-Dichlorobenzidine	5	3.12	U	2.86	U	2.86	U	2.78	U
3-Nitroaniline	5	3.12	U	2.86	U	2.86	U	2.78	U

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Compound	GA	Result	Q	Result	Q	Result	Q	Result	Q
4,6-Dinitro-2-methylphenol	~	3.12	U	2.86	U	2.86	U	2.78	U
4-Bromophenyl phenyl ether	~	3.12	U	2.86	U	2.86	U	2.78	U
4-Chloro-3-methylphenol	1	3.12	U	2.86	U	2.86	U	2.78	U
4-Chloroaniline	5	3.12	U	2.86	U	2.86	U	2.78	U
4-Chlorophenyl phenyl ether	~	3.12	U	2.86	U	2.86	U	2.78	U
4-Nitroaniline	5	3.12	U	2.86	U	2.86	U	2.78	U
4-Nitrophenol	1	3.12	U	2.86	U	2.86	U	2.78	U
Acenaphthene	20	0.063	U	0.057	U	0.057	U	0.056	U
Acenaphthylene	~	0.063	U	0.057	U	0.057		0.056	U
Acetophenone	~	3.12	U	2.86	U	2.86	U	2.78	U
Aniline	5	3.12	U	2.86	U	2.86	U	2.78	U
Anthracene	50	0.063	U	0.057	U	0.057	U	0.056	U
Atrazine	~	0.63	U	0.57	U	0.57	U	0.56	U
Benzaldehyde	~	3.12	U	2.86	U	2.86	U	2.78	U
Benzidine	~	12.50	U	11.40	U	11.40	U	11.10	U
Benzo(a)anthracene	0.002	0.063	U	0.057	U	0.057	U	0.056	U
Benzo(a)pyrene	0.002	0.063	U	0.057	U	0.057	U	0.056	U
Benzo(b)fluoranthene	0.002	0.063	U	0.057	U	0.057	U	0.056	U
Benzo(g,h,i)perylene	~	0.063	U	0.057	U	0.057	U	0.056	U
Benzo(k)fluoranthene	0.002	0.063	U	0.057	U	0.057	U	0.056	U
Benzoic acid	~	31.20	U	28.60	U	28.60	U	27.80	U
Benzyl alcohol	~	3.12	U	2.86	U	2.86	U	2.78	U
Benzyl butyl phthalate	50	3.12	U	2.86	U	2.86	U	2.78	U
Bis(2-chloroethoxy)methane	5	3.12	U	2.86	U	2.86	U	2.78	U
Bis(2-chloroethyl)ether	1	3.12	U	2.86	U	2.86	U	2.78	U
Bis(2-chloroisopropyl)ether	5	3.12	U	2.86	U	2.86	U	2.78	U
Bis(2-ethylhexyl)phthalate	5	0.63	U	0.57	U	**13**		0.56	U
Caprolactam	~	3.12	U	2.86	U	2.86	U	2.78	U
Carbazole	~	3.12	U	2.86	U	2.86	U	2.78	U
Chrysene	0.002	0.063	U	0.057	U	0.057	U	0.056	U
Dibenzo(a,h)anthracene	~	0.063	U	0.057	U	0.057	U	0.056	U
Dibenzofuran	~	3.12	U	2.86	U	2.86	U	2.78	U
Diethyl phthalate	50	3.12	U	2.86	U	2.86	U	2.78	U
Dimethyl phthalate	50	3.12	U	2.86	U	2.86	U	2.78	U
Di-n-butyl phthalate	50	3.12	U	2.86	U	2.86	U	2.78	U
Di-n-octyl phthalate	50	3.12	U	2.86	U	2.86	U	2.78	U
Fluoranthene	50	0.063	U	0.057	U	0.057	U	0.056	U
Fluorene	50	0.063	U	0.057	U	0.59		0.056	U
Hexachlorobenzene	0.04	0.025	U	0.023	U	0.023	U	0.022	U
Hexachlorobutadiene	0.5	0.63	U	0.57	U	0.57	U	0.56	U
Hexachlorocyclopentadiene	5	3.12	U	2.86	U	2.86	U	2.78	U
Hexachloroethane	5	0.63	U	0.57	U	0.57	U	0.56	U
Indeno(1,2,3-cd)pyrene	0.002	0.063	U	0.057	U	0.057	U	0.056	U
Isophorone	50	3.12	U	2.86	U	2.86	U	2.78	U
Naphthalene	10	0.063	U	0.057	U	0.057	U	0.056	U
Nitrobenzene	0.4	0.31	U	0.29	U	0.29	U	0.28	U
N-Nitrosodimethylamine	~	0.63	U	0.57	U	0.57	U	0.56	U

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Compound	**GA**	Result	Q	Result	Q	Result	Q	Result	Q
N-nitroso-di-n-propylamine	~	3.12	U	2.86	U	2.86	U	2.78	U
N-Nitrosodiphenylamine	50	3.12	U	2.86	U	2.86	U	2.78	U
Pentachlorophenol	1	0.31	U	0.29	U	0.29	U	0.28	U
Phenanthrene	50	0.063	U	0.057	U	0.057	U	0.056	U
Phenol	1	3.12	U	2.86	U	2.86	U	2.78	U
Pyrene	50	0.063	U	0.057	U	0.057	U	0.056	U
Metals, Target Analyte	ug/L	ug/L		ug/L		ug/L		ug/L	
Dilution Factor		100		1		1		1000	
Aluminum	~	14,600		783		4,180		15,900	
Antimony	3	6	U	6	U	6	U	6	U
Arsenic	25	12		4	U	4	U	10	
Barium	1000	234		13		25		533	
Beryllium	3	1		1	U	1	U	1	U
Cadmium	5	3	U	3	U	3	U	3	U
Calcium	~	123,000		25,700		18,200		682,000	
Chromium	50	26		6	U	13		15	
Cobalt	~	9		6	U	6	U	7	
Copper	200	58		27		44		51	
Iron	~	12,000		1,940		5,870		9,990	
Lead	25	**54**		3	U	9		11	
Magnesium	35000	30,700		3,570		7,560		**107,000**	
Manganese	300	**1,320**		**527**		163		**10,500**	
Nickel	100	20		7		10		13	
Potassium	~	4,760		1,630		3,330		6,820	
Selenium	10	11	U	11	U	11	U	11	U
Silver	50	6	U	6	U	6	U	6	U
Sodium	20000	**725,000**	D	**154,000**		23,600		**2,830,000**	D
Thallium	~	6		6	U	6	U	16	
Vanadium	~	15		11	U	18		13	
Zinc	2000	882		37		130		363	
Metals, Target Analyte, Dissolved	ug/L	ug/L		ug/L		ug/L		ug/L	
Dilution Factor		100		1		1		1000	
Aluminum	~	56	U	56	U	56	U	56	U
Antimony	3	6	U	6	U	6	U	6	U
Arsenic	25	4	U	4	U	4	U	4	U
Barium	1000	80		11	U	11	U	524	
Beryllium	3	1	U	1	U	1	U	1	U
Cadmium	5	3	U	3	U	3	U	3	U
Calcium	~	116,000		28,600		13,000		725,000	
Chromium	50	6	U	6	U	6	U	6	U
Cobalt	~	6	U	6	U	6	U	6	U
Copper	200	44		38		30		55	
Iron	~	88		183		346		254	
Lead	25	3	U	3	U	3	U	5	
Magnesium	35000	24,900		3,900		4,240		**110,000**	
Manganese	300	111		**598**		67		**10,900**	
Nickel	100	6		6	U	7		6	U

Table 1. 2016 Groundwater Sample Analytical Results
Groundwater Sampling Summary Report
Former Safety Kleen Dry Cleaners
Vails Gate, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values -	MW-1R 11/10/2016 Water		MW-2 11/10/2016 Water		MW-3 11/10/2016 Water		MW-4 11/10/2016 Water	
Compound	**GA**	Result	Q	Result	Q	Result	Q	Result	Q
Potassium	~	2,660		1,380		1,580		4,440	
Selenium	10	11	U	11	U	11	U	11	U
Silver	50	6	U	6	U	6	U	6	U
Sodium	20000	**775,000**	D	**154,000**		**20,600**		**2,690,000**	D
Thallium	~	6	U	6	U	6		21	
Vanadium	~	11	U	11	U	11	U	11	U
Zinc	2000	64		11	U	11	U	167	
Mercury by 7473	ug/L	ug/L		ug/L		ug/L		ug/L	
Dilution Factor		1		1		1		1	
Mercury	0.7	0.20	U	0.20	U	0.20	U	0.20	U
Mercury by 7473, Dissolved	ug/L	ug/L		ug/L		ug/L		ug/L	
Dilution Factor		1		1		1		1	
Mercury	0.7	0.20	U	0.20	U	0.20	U	0.20	U
Chemical Oxygen Demand (COD)		ug/L		ug/L		ug/L		ug/L	
Dilution Factor		10		1		1		10	
Chemical Oxygen Demand (COD)	~	1,400,000	D	120,000		170,000		1,200,000	D

Table 1. 2016 Groundwater Sample Analytical Results
Groundwater Sampling Summary Report
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Vails Gate, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values -	MW-7 11/10/2016 Water		MW-6 11/10/2016 Water		Trip Blank 11/10/2016 Water	
Compound	**GA**	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	ug/L	ug/L		ug/L		ug/L	
Dilution Factor		50		1		1	
Tetrachloroethylene	5	**45**	D	0.41	J	0.20	U
Trichloroethylene	5	10	U	0.20	U	0.20	U
cis-1,2-Dichloroethylene	5	**20**	JD	0.20	U	0.20	U
trans-1,2-Dichloroethylene	5	10	U	0.20	U	0.20	U
1,1-Dichloroethane	5	10	U	0.20	U	0.20	U
Vinyl Chloride	2	10	U	0.35	J	0.20	U
Chloroform	7	10	U	0.20	U	0.20	U
2-Butanone	50	10	U	0.20	U	0.20	U
Acetone	50	**69**	JBD	1	U	1	U
1,1,1-Trichloroethane	5	10	U	0.20	U	0.20	U
1,1-Dichloroethylene	5	10	U	0.20	U	0.20	U
Carbon disulfide	~	10	U	0.20	U	0.20	U
Carbon tetrachloride	5	10	U	0.20	U	0.20	U
Chlorobenzene	5	10	U	0.20	U	0.20	U
Ethyl Benzene	5	**230**	D	0.20	U	0.20	U
Xylenes, Total	5	**1,100**	D	0.60	U	0.60	U
Toluene	5	**360**	D	0.20	U	0.20	U
1,2,4-Trimethylbenzene	5	**710**	D	0.20	U	0.20	U
1,3,5-Trimethylbenzene	5	**280**	D	0.20	U	0.20	U
Benzene	1	**15**	JD	0.20	U	0.20	U
Isopropylbenzene	5	**56**	D	0.20	U	0.20	U
n-Butylbenzene	5	**88**	D	0.20	U	0.20	U
n-Propylbenzene	5	**160**	D	0.20	U	0.20	U
o-Xylene	5	**240**	D	0.20	U	0.20	U
p- & m- Xylenes	5	**900**	D	0.50	U	0.50	U
p-Isopropyltoluene	5	**16**	JD	0.20	U	0.20	U
sec-Butylbenzene	5	**22**	JD	0.20	U	0.20	U
1,1,1,2-Tetrachloroethane	5	10	U	0.20	U	0.20	U
1,1,2,2-Tetrachloroethane	5	10	U	0.20	U	0.20	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	10	U	0.20	U	0.20	U
1,1,2-Trichloroethane	1	10	U	0.20	U	0.20	U
1,2,3-Trichlorobenzene	5	10	U	0.20	U	0.20	U
1,2,3-Trichloropropane	0.04	10	U	0.20	U	0.20	U
1,2,4-Trichlorobenzene	5	10	U	0.20	U	0.20	U
1,2-Dibromo-3-chloropropane	0.04	10	U	0.20	U	0.20	U
1,2-Dibromoethane	5	10	U	0.20	U	0.20	U
1,2-Dichlorobenzene	3	10	U	0.20	U	0.20	U
1,2-Dichloroethane	0.6	10	U	0.20	U	0.20	U
1,2-Dichloropropane	1	10	U	0.20	U	0.20	U
1,3-Dichlorobenzene	3	10	U	0.20	U	0.20	U
1,4-Dichlorobenzene	3	10	U	0.20	U	0.20	U
1,4-Dioxane	~	2,000	U	40	U	40	U
2-Hexanone	50	10	U	0.20	U	0.20	U
4-Methyl-2-pentanone	~	10	U	0.20	U	0.20	U
Acrolein	~	10	U	0.20	U	0.20	U
Acrylonitrile	~	10	U	0.20	U	0.20	U

Table 1. 2016 Groundwater Sample Analytical Results
Groundwater Sampling Summary Report
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Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values -	MW-7 11/10/2016 Water		MW-6 11/10/2016 Water		Trip Blank 11/10/2016 Water	
Compound	**GA**	Result	Q	Result	Q	Result	Q
Bromochloromethane	5	10	U	0.20	U	0.20	U
Bromodichloromethane	50	10	U	0.20	U	0.20	U
Bromoform	50	10	U	0.20	U	0.20	U
Bromomethane	5	10	U	0.20	U	0.20	U
Chloroethane	5	10	U	0.20	U	0.20	U
Chloromethane	5	10	U	0.20	U	0.20	U
cis-1,3-Dichloropropylene	0.4	10	U	0.20	U	0.20	U
Cyclohexane	~	10	U	0.20	U	0.20	U
Dibromochloromethane	50	10	U	0.20	U	0.20	U
Dibromomethane	~	10	U	0.20	U	0.20	U
Dichlorodifluoromethane	5	10	U	0.20	U	0.20	U
Hexachlorobutadiene	0.5	10	U	0.20	U	0.20	U
Methyl acetate	~	10	U	0.20	U	0.20	U
Methyl tert-butyl ether (MTBE)	10	10	U	0.20	U	0.20	U
Methylcyclohexane	~	26	D	0.20	U	0.20	U
Methylene chloride	5	50	U	1	U	1	U
Styrene	5	10	U	0.20	U	0.20	U
tert-Butyl alcohol (TBA)	~	25	U	2.10		0.50	U
tert-Butylbenzene	5	10	U	0.20	U	0.20	U
trans-1,3-Dichloropropylene	0.4	10	U	0.20	U	0.20	U
Trichlorofluoromethane	5	10	U	0.20	U	0.20	U
Semi-Volatiles, 8270 - Comprehensive	ug/L	ug/L		ug/L			
Dilution Factor		1		1			
1,1'-Biphenyl	~	2.78	U	2.78	U	NT	
1,2,4,5-Tetrachlorobenzene	~	2.78	U	2.78	U	NT	
1,2,4-Trichlorobenzene	5	2.78	U	2.78	U	NT	
1,2-Dichlorobenzene	3	2.78	U	2.78	U	NT	
1,2-Diphenylhydrazine (as Azobenzene)	~	2.78	U	2.78	U	NT	
1,3-Dichlorobenzene	3	2.78	U	2.78	U	NT	
1,4-Dichlorobenzene	3	2.78	U	2.78	U	NT	
2,3,4,6-Tetrachlorophenol	~	2.78	U	2.78	U	NT	
2,4,5-Trichlorophenol	1	2.78	U	2.78	U	NT	
2,4,6-Trichlorophenol	1	2.78	U	2.78	U	NT	
2,4-Dichlorophenol	5	2.78	U	2.78	U	NT	
2,4-Dimethylphenol	50	2.78	U	2.78	U	NT	
2,4-Dinitrophenol	10	2.78	U	2.78	U	NT	
2,4-Dinitrotoluene	5	2.78	U	2.78	U	NT	
2,6-Dinitrotoluene	5	2.78	U	2.78	U	NT	
2-Chloronaphthalene	10	2.78	U	2.78	U	NT	
2-Chlorophenol	1	2.78	U	2.78	U	NT	
2-Methylnaphthalene	~	2.78	U	2.78	U	NT	
2-Methylphenol	1	2.78	U	2.78	U	NT	
2-Nitroaniline	5	2.78	U	2.78	U	NT	
2-Nitrophenol	1	2.78	U	2.78	U	NT	
3- & 4-Methylphenols	~	2.78	U	2.78	U	NT	
3,3'-Dichlorobenzidine	5	2.78	U	2.78	U	NT	
3-Nitroaniline	5	2.78	U	2.78	U	NT	

Table 1. 2016 Groundwater Sample Analytical Results
Groundwater Sampling Summary Report
Former Safety Kleen Dry Cleaners
Vails Gate, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values -	MW-7 11/10/2016 Water		MW-6 11/10/2016 Water		Trip Blank 11/10/2016 Water	
Compound	GA	Result	Q	Result	Q	Result	Q
4,6-Dinitro-2-methylphenol	~	2.78	U	2.78	U	NT	
4-Bromophenyl phenyl ether	~	2.78	U	2.78	U	NT	
4-Chloro-3-methylphenol	1	2.78	U	2.78	U	NT	
4-Chloroaniline	5	2.78	U	2.78	U	NT	
4-Chlorophenyl phenyl ether	~	2.78	U	2.78	U	NT	
4-Nitroaniline	5	2.78	U	2.78	U	NT	
4-Nitrophenol	1	2.78	U	2.78	U	NT	
Acenaphthene	20	0.056	U	0.056	U	NT	
Acenaphthylene	~	0.056	U	0.056	U	NT	
Acetophenone	~	2.78	U	2.78	U	NT	
Aniline	5	2.78	U	2.78	U	NT	
Anthracene	50	0.056	U	0.056	U	NT	
Atrazine	~	0.56	U	0.56	U	NT	
Benzaldehyde	~	2.78	U	2.78	U	NT	
Benzidine	~	11.10	U	11.10	U	NT	
Benzo(a)anthracene	0.002	0.056	U	0.056	U	NT	
Benzo(a)pyrene	0.002	0.056	U	0.056	U	NT	
Benzo(b)fluoranthene	0.002	0.056	U	0.056	U	NT	
Benzo(g,h,i)perylene	~	0.056	U	0.056	U	NT	
Benzo(k)fluoranthene	0.002	0.056	U	0.056	U	NT	
Benzoic acid	~	27.80	U	27.80	U	NT	
Benzyl alcohol	~	2.78	U	2.78	U	NT	
Benzyl butyl phthalate	50	2.78	U	2.78	U	NT	
Bis(2-chloroethoxy)methane	5	2.78	U	2.78	U	NT	
Bis(2-chloroethyl)ether	1	2.78	U	2.78	U	NT	
Bis(2-chloroisopropyl)ether	5	2.78	U	2.78	U	NT	
Bis(2-ethylhexyl)phthalate	5	0.90		0.56	U	NT	
Caprolactam	~	2.78	U	2.78	U	NT	
Carbazole	~	2.78	U	2.78	U	NT	
Chrysene	0.002	0.056	U	0.056	U	NT	
Dibenzo(a,h)anthracene	~	0.056	U	0.056	U	NT	
Dibenzofuran	~	2.78	U	2.78	U	NT	
Diethyl phthalate	50	2.78	U	2.78	U	NT	
Dimethyl phthalate	50	2.78	U	2.78	U	NT	
Di-n-butyl phthalate	50	2.78	U	2.78	U	NT	
Di-n-octyl phthalate	50	2.78	U	2.78	U	NT	
Fluoranthene	50	0.056	U	0.056	U	NT	
Fluorene	50	0.61		0.056	U	NT	
Hexachlorobenzene	0.04	0.022	U	0.022	U	NT	
Hexachlorobutadiene	0.5	0.56	U	0.56	U	NT	
Hexachlorocyclopentadiene	5	2.78	U	2.78	U	NT	
Hexachloroethane	5	0.56	U	0.56	U	NT	
Indeno(1,2,3-cd)pyrene	0.002	0.056	U	0.056	U	NT	
Isophorone	50	2.78	U	2.78	U	NT	
Naphthalene	10	0.089		0.056	U	NT	
Nitrobenzene	0.4	0.28	U	0.28	U	NT	
N-Nitrosodimethylamine	~	0.56	U	0.56	U	NT	

Table 1. 2016 Groundwater Sample Analytical Results
Groundwater Sampling Summary Report
Former Safety Kleen Dry Cleaners
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Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values -	MW-7 11/10/2016 Water		MW-6 11/10/2016 Water		Trip Blank 11/10/2016 Water	
Compound	**GA**	Result	Q	Result	Q	Result	Q
N-nitroso-di-n-propylamine	~	2.78	U	2.78	U	NT	
N-Nitrosodiphenylamine	50	2.78	U	2.78	U	NT	
Pentachlorophenol	1	0.28	U	0.28	U	NT	
Phenanthrene	50	0.056	U	0.056	U	NT	
Phenol	1	2.78	U	2.78	U	NT	
Pyrene	50	0.056	U	0.056	U	NT	
Metals, Target Analyte	ug/L	ug/L		ug/L			
Dilution Factor		1		1			
Aluminum	~	227,000		917		NT	
Antimony	3	6	U	6	U	NT	
Arsenic	25	**68**		9		NT	
Barium	1000	**1,690**		164		NT	
Beryllium	3	**10**		1	U	NT	
Cadmium	5	**19**		3	U	NT	
Calcium	~	149,000		138,000		NT	
Chromium	50	**418**		6	U	NT	
Cobalt	~	155		6	U	NT	
Copper	200	**573**		18		NT	
Iron	~	258,000		8,860		NT	
Lead	25	**905**		3	U	NT	
Magnesium	35000	**67,300**		13,800		NT	
Manganese	300	**8,030**		**966**		NT	
Nickel	100	**332**		6	U	NT	
Potassium	~	28,800		984		NT	
Selenium	10	**13**		11	U	NT	
Silver	50	6	U	6	U	NT	
Sodium	20000	**287,000**		20,700		NT	
Thallium	~	6	U	6	U	NT	
Vanadium	~	357		11	U	NT	
Zinc	2000	**14,400**		26		NT	
Metals, Target Analyte, Dissolved	ug/L	ug/L		ug/L			
Dilution Factor		1		1			
Aluminum	~	56	U	56	U	NT	
Antimony	3	6	U	6	U	NT	
Arsenic	25	4	U	5		NT	
Barium	1000	48		130		NT	
Beryllium	3	1	U	1	U	NT	
Cadmium	5	3	U	3	U	NT	
Calcium	~	64,200		135,000		NT	
Chromium	50	6	U	6	U	NT	
Cobalt	~	6	U	6	U	NT	
Copper	200	29		24		NT	
Iron	~	47		98		NT	
Lead	25	3	U	3	U	NT	
Magnesium	35000	12,000		13,200		NT	
Manganese	300	212		**929**		NT	
Nickel	100	8		6		NT	

Table 1. 2016 Groundwater Sample Analytical Results
Groundwater Sampling Summary Report
Former Safety Kleen Dry Cleaners
Vails Gate, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values -	MW-7 11/10/2016 Water		MW-6 11/10/2016 Water		Trip Blank 11/10/2016 Water	
Compound	**GA**	Result	Q	Result	Q	Result	Q
Potassium	~	3,000		675		NT	
Selenium	10	11	U	11	U	NT	
Silver	50	6	U	6	U	NT	
Sodium	20000	**304,000**		**27,000**		NT	
Thallium	~	6	U	7		NT	
Vanadium	~	11	U	11	U	NT	
Zinc	2000	11	U	11	U	NT	
Mercury by 7473	ug/L	ug/L		ug/L			
Dilution Factor		1		1			
Mercury	0.7	0.20	U	0.20	U	NT	
Mercury by 7473, Dissolved	ug/L	ug/L		ug/L			
Dilution Factor		1		1			
Mercury	0.7	0.20	U	0.20	U	NT	
Chemical Oxygen Demand (COD)		ug/L		ug/L			
Dilution Factor		1		1			
Chemical Oxygen Demand (COD)	~	67,000		49,000		NT	

NOTES:
ug/L = micrograms per liter
Any Regulatory Exceedences are bold and shaded

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte

Table 2. 2011 and 2016 Summary of Groundwater Analytical Detections
Groundwater Sampling Summary Report
Former Safety Kleen Dry Cleaners
Vails Gate, New York

			Location Name	MW-1R	MW-1R	MW-2	MW-2-2 (dup)	MW-2	MW-3	MW-3	MW-4	MW-4	MW-6	MW-6	MW-7	MW-7
			Top of Screen	2	2	5	5	5	5	5	5	5	7	7	3	3
			Bottom of Screen	17	17	15	15	15	15	15	15	15	17	17	18	18
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	10/13/2011	11/10/2016	10/13/2011	10/13/2011	11/10/2016	10/13/2011	11/10/2016	10/13/2011	11/10/2016	10/13/2011	11/10/2016	10/13/2011	11/10/2016
	Units	CAS No.	NYS AWQS													
Detected VOCs																
Tetrachloroethene (PCE)	µg/L	127-18-4	5	**22.8**	**460 D**	**1,650**	**1,270**	**30**	2 U	**0.98**	2 U	**0.91**	1 U	**0.41 J**	**127,000**	**45**
Trichloroethene (TCE)	µg/L	79-01-6	5	2 U	**3.2**	**25.1**	**28.6**	**3.7**	2 U	**0.37 J**	2 U	0.2 U	1 U	0.2 U	**151**	10 U
Cis-1,2-Dichloroethene (DCE)	µg/L	156-59-2	5	2 U	**6.7**	**37.5**	**46.7**	**46**	2 U	**0.24 J**	2 U	**0.23 J**	1 U	0.2 U	**1.39**	**20**
Trans-1,2-Dichloroethene	µg/L	156-60-5	5	2 U	0.2 U	**3.98**	1 U	3	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	1 U	10 U
1,1-Dichloroethane	µg/L	75-34-3	5	2 U	0.2 U	**1.11**	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**4.75**	10 U
Vinyl chloride (VC)	µg/L	75-01-4	2	2 U	0.2 U	**151**	**17.8**	**150**	2 U	0.2 U	2 U	**0.64**	1 U	**0.35 J**	1 U	10 U
Chloroform	µg/L	67-66-3	7	2 U	**0.25 J**	1 U	**1.08**	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**2.3**	10 U
Methyl ethyl ketone (2-Butanone	µg/L	78-93-3	50*	2 U	**1.1 B**	1 U	1 U	0.2 U	2 U	**1.6**	2 U	0.2 U	1 U	0.2 U	**7.51**	10 U
Acetone	µg/L	67-64-1	50*	**13.3**	**18 B**	5 U	5 U	**1.6 JB**	10 U	**6.6 B**	10 U	1 U	5 U	1 U	**30.4**	**69**
1,1,1-Trichloroethane	µg/L	71-55-6	5	2 U	**0.2 U**	1 U	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**57.7**	10 U
1,1-Dichloroethene	µg/L	75-35-4	5	2 U	**0.2 U**	1 U	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**1.86**	10 U
Carbon disulfide	µg/L	75-15-0	60*	2 U	0.2 U	1 U	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**1.53**	10 U
Carbon tetrachloride	µg/L	56-23-5	5	2 U	0.2 U	1 U	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**1.41**	10 U
Chlorobenzene	µg/L	108-90-7	5	2 U	0.2 U	1 U	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**1.98**	10 U
Ethylbenzene	µg/L	100-41-4	5	2 U	0.2 U	1 U	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**2.33**	**230**
Total Xylene	µg/L	1330-20-7	5	2 U	0.6 U	1 U	1 U	0.6 U	2 U	0.6 U	2 U	0.6 U	1 U	0.6 U	**5.3**	**1100**
Toluene	µg/L	108-99-3	5	2 U	0.2 U	1 U	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**1.23**	**360**
1,2,4-Trimethylbenzene	µg/L	95-63-6	5	NA	0.2 U	1 U	1 U	0.2 U	NA	0.2 U	NA	0.2 U	NA	0.2 U	NA	**710 D**
1,3,5-Trimethylbenzene	µg/L	108-67-8	5	NA	0.2 U	1 U	1 U	0.2 U	NA	0.2 U	NA	0.2 U	NA	0.2 U	NA	**280 D**
Benzene	µg/L	71-43-2	1	2 U	0.2 U	1 U	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	1 U	**15 JD**
Isopropylbenzene	µg/L	98-82-8	5	NA	0.2 U	1 U	1 U	0.2 U	NA	0.2 U	NA	0.2 U	NA	0.2 U	NA	**56 D**
n-Butylbenzene	µg/L	104-51-8	5	NA	0.2 U	1 U	1 U	0.2 U	NA	0.2 U	NA	0.2 U	NA	0.2 U	NA	**88 D**
n-Propylbenzene	µg/L	103-65-1	5	NA	0.2 U	1 U	1 U	0.2 U	NA	0.2 U	NA	0.2 U	NA	0.2 U	NA	**160 D**
o-Xylene	µg/L	95-47-6	5	2 U	0.2 U	1 U	1 U	0.2 U	2 U	0.2 U	2 U	0.2 U	1 U	0.2 U	**2.31**	**240 D**
p- & m- Xylenes	µg/L	179601-23-1	5	2 U	0.5 U	1 U	1 U	0.5 U	2 U	0.5 U	2 U	0.5 U	1 U	0.5 U	**2.99**	**900 D**
p-Isopropyltoluene	µg/L	99-98-8	5	NA	0.2 U	1 U	1 U	0.2 U	NA	0.2 U	NA	0.2 U	NA	0.2 U	NA	**16 JD**
sec-Butylbenzene	µg/L	135-98-8	5	NA	0.2 U	1 U	1 U	0.2 U	NA	0.2 U	NA	0.2 U	NA	0.2 U	NA	**22 JD**

Notes:

µg/L - micrograms per liter or parts per billion (ppb)
VOCs - volatile organic compounds
NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard
CAS no. - Chemical Abstracts Service number
Bolding indicates a detected concentration
Gray shading indicates that the detected result value exceeds NYS AWQS
NA - Not Analyzed

Laboratory Qualifiers:

U - Indicates not detected to the reporting limit