

January 31, 2013

Privileged and Confidential
Prepared at Request of Legal Counsel

Kevin M. Hogan, Esquire
Phillips Lytle LLP
3400 HSBC Center
Buffalo, NY 14203

Re: VanDeMark Chemical Inc., Lockport, New York
Supplemental Investigation Results

Dear Mr. Hogan:

Gnarus Advisors LLC and the Palmerton Group LLC implemented a supplemental investigation at the VanDeMark Chemical facility in Lockport, New York from October 29 to November 15, 2012. The field activities involved collecting soil and groundwater samples at various locations identified as a result of prior research conducted by Gnarus. This letter summarizes the work performed as well as data collected during a Phase II investigation conducted by GaiaTech during October 2012.

Field Activity Summary

The overall purpose of the supplemental investigation was to further characterize soil and groundwater quality, particularly along the northern property boundary and at various areas within the plant manufacturing area. Nothnagle Drilling (Scottsville, New York) was retained to advance 23 soil borings (SP-19 through SP-41) at the locations shown in Figure 1. Before drilling, the sample locations were scanned for underground utilities by a subcontracted utility locator, Pegasus Environmental (Spencertown, New York), utilizing ground penetrating radar (GPR). Under Palmerton Group's direction, Nothnagle then advanced the soil borings utilizing a direct push unit (Geoprobe 6620DT) collecting soil samples in 4-foot intervals. Nothnagle used a new disposable plastic liner for each 4-foot interval and advanced the borings to bedrock refusal (depths ranging from 4.9 feet below ground surface [bgs] to 22.7 feet bgs).

A Palmerton Group geologist collected soil samples at two to three intervals from each soil boring depending on the depth of bedrock refusal. In general, Palmerton collected soil samples from the following intervals: 1 to 3 feet bgs, 4 to 5 feet bgs, and at the interval above refusal. If refusal was close to the 4 to 5-foot interval, a third soil sample was not collected from the boring. The sampling methodology followed that described in the ICM Work Plan. Recovered soils were logged and screened in the field by Palmerton Group utilizing a RAE Systems MiniRAE 3000 Handheld VOC Meter (a photoionization detector [PID]). Appendix A contains the soil boring logs, including the field



measurements. Soil samples were placed in laboratory-supplied containers, placed on ice, and shipped to Alpha Analytical in Westborough, Massachusetts, for analyses, following the chain of custody and analytical procedures in the ICM Work Plan.

Initially, the plan was to install temporary wells using direct push equipment; however, due to the presence of bedrock, groundwater was not encountered at some locations. Temporary wells that produced sufficient groundwater for sampling were installed at five locations using the direct push equipment (SP-27, SP-29, SP-30, SP-32, and SP-37) by placing a 1-inch diameter Schedule 40 PVC well casing with a 0.010-slot well screen at the bottom of the borehole. The screen lengths varied from 1 to 4 feet depending on the depth of groundwater above the bedrock surface.

An additional eight temporary wells were installed using a CME 85 auger drill rig (well locations SP-19, SP-20, SP-23, SP-25, SP-26, SP-28, SP-33, and SP-34). These wells were also installed with 1-inch diameter Schedule 40 PVC well casing with a 0.010-slot well screen. The wells were designated with an "A" in their title description since the wells were co-located with the direct push borings.

A Palmerton Group geologist collected groundwater samples from the temporary wells using low flow sampling techniques. The low flow technique entailed first measuring and recording the static water level measurement, which was compared to the well installation records for reference to well construction and screen depth. Next, 0.25-inch polyethylene tubing was cut to length for purging. Groundwater purging involved using a peristaltic pump and collecting real-time water quality measurements using a YSI Professional Plus with a flow cell to measure temperature, pH, specific conductivity, dissolved oxygen, oxidation-reduction potential, and turbidity (a separate turbidity meter was used). Groundwater quality measurements were recorded and when simultaneous readings were observed to be within a 10% range of each other, the groundwater samples were collected. A field duplicate sample was collected from temporary well SP-25(A). No groundwater accumulated in well SP-19 after a 24-hour period, and this well was not sampled.

After completing the sampling, Nothnagle backfilled each boring with bentonite and finished the ground surface with asphalt patch. Nothnagle also pulled the PVC well casing and screen from each temporary well location and disposed of the material as investigation-derived non-hazardous waste.

Field Observations

The Palmerton Group geologist recorded lithology observations on the boring logs provided in Appendix A. In general, the upper-most zone of unsaturated soil consists of gravel with some intermingled sand, silt, organic matter, and weathered bedrock. In some locations, Palmerton Group identified the presence of ash, cinders, or brick near the ground surface and a silt layer deeper. Palmerton Group also observed a blue-green color in borings SP-26, SP-27, and SP-34, a fuel odor in SP-21 and SP-28, and a thin coal tar seam in SP-25.



Bedrock was encountered at depths less than 10 feet bgs across the entire property (average depth of approximately 5 feet bgs), except at the southwest corner where the depth to bedrock was approximately 20 feet bgs. Limited perched water was encountered and generally the first groundwater encountered was in the bedrock zone. This was similar to observations made during GaiaTech's investigation in which perched groundwater was detected intermittently on the west side of the site. GaiaTech did not encounter perched groundwater on the east side of the site (east of Transit Road).

Investigation Results

The soil data are provided in Table 1 and the groundwater data in Table 2. Gnarus and Palmerton Group compared the soil results to the industrial soil cleanup objectives (SCOs) and protection of groundwater SCOs. The exceedances are highlighted on Table 1 with the colors yellow (direct contact SCOs) and blue (protection of groundwater SCOs). The groundwater data are compared to the NYSDEC Technical & Operational Guidance Series (TOGS) values. Groundwater concentrations exceeding TOGS are highlighted in yellow on Table 2.

The supplemental investigation did not identify any newly discovered substantial issues at the site. There were generally intermittent exceedances of the industrial SCOs and TOGS for PAHs, particularly in the main portion of the plant site. The PAH issues will be addressed by the coal tar investigation work and are not discussed in this report. However, the data are useful for the ongoing coal tar investigation.

In considering the results, Gnarus combined the recent data generated during the Phase II investigation conducted by GaiaTech as well as the recent work completed by Gnarus. GaiaTech collected 17 soil samples for analysis of VOCs, PAHs, and metals. GaiaTech summarized its investigation results in a letter, dated October 31, 2012.

Soil

No VOCs were detected above the industrial SCOs. The only metals detected above the industrial SCOs were lead in soil boring SB-34 at a depth of 2 to 3 feet (6,600 mg/kg) and copper in boring GT-6 at a depth of 1 to 2 feet (21,000 mg/kg). In addition, there were three detections of arsenic (SB-26, SB-28, and SB-34), which were both below 30 mg/kg.

The investigation included collecting four soil samples from around a previous sample collected by Environ in 2011 from boring B-3 in the southwest portion of the site. The sample collected by Environ contained 227 mg/kg of arsenic. The recent data from the four borings in this area do not exceed the industrial SCOs for arsenic, suggesting that the 2011 arsenic result was an anomaly and not indicative of a widespread presence of arsenic in that area of the site. No further investigation is warranted in this area due to the presence of arsenic.

Groundwater

The presence of VOCs in groundwater during this recent investigation was more limited than previously detected during investigations by Dames & Moore (1999), Benchmark (2006), and Environ (2011). Although several samples contain VOCs above TOGS, the detections are not excessive and are not indicative of source area concentrations. For example, NYSDEC guidance considers nonaqueous phase liquid (NAPL) to be suspected in groundwater when the chemical concentration exceeds 1% of the solubility.¹ No VOC was detected at a concentration greater than 0.1% of its solubility and, thus, there are no chemical data supporting the presence of a VOC-based NAPL. The areas where groundwater samples with detections that warrant discussion are as follows (note: the comparison levels provided below are above TOGS, but provide a general indication of the magnitude of the concentrations; Table 2 includes a comparison to TOGS):

- South of the laboratory (vicinity of historical samples B-6/SB-11 where chloroform was detected) – only xylenes (478 ug/l [total]) and ethylbenzene (160 ug/l) were detected at a concentration above 100 ug/l. In addition, benzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, isopropylbenzene, and n-propyl benzene were detected above TOGS (but all at or below 50 ug/l). The data clearly do not indicate a substantive source of chloroform, which was the primary focus of the investigation in this area.
- North of the administration building – Only xylenes were detected above 100 ug/l (155 ug/l [total]); this area is south and downgradient of the laboratory.
- South of phosgene production - although VOCs were detected in this area, the concentrations were below 100 ug/l and are not deemed indicative of a source or even warranting further investigation. Temporary well SP-25(A) installed in this area was the only location that contained detectable concentrations of trichloroethene (TCE) or tetrachloroethene (PCE). The groundwater sample from this well contained an estimated TCE concentration of 42 ug/l (47 ug/l in the duplicate sample) and an estimated PCE concentration of 57 ug/l (64 ug/l in the duplicate sample).
- Maintenance shop area – SP-26(A) to the south contained 20 ug/l chloroform and SB-28(A) to the north contained 18 ug/l 1,2,4-trimethylbenzene.
- West portion of manufacturing area – the groundwater sample collected from GT-12 contained chlorobenzene at 16 ug/l.
- Southwest corner of site – the groundwater sample collected from GT-11 contained relatively low concentrations of benzene, toluene, and xylenes, all at concentrations less than 20 ug/l.

¹ New York State Department of Environmental Conservation. (2010). Final DER-10, Technical Guidance for Site Investigation and Remediation. May. P. 46.



In addition, there were a few detections of dissolved metals in the groundwater samples. The concentrations are not indicative of a concern considering that the samples were collected from temporary wells.

The most interesting aspect of the investigation results is that the samples from shallow groundwater did not contain chlorinated solvents, except in one location, SP-25(A), located south of the phosgene production area. Data from previous investigations, such as the Environ groundwater investigation from 2011, indicated the presence of 1,1,1-trichloroethane (TCA) and its degradation products in the western portion of the property. In 2011, TCA was detected as high as 86 ug/l, 1,1-dichloroethane up to 230 ug/l, and 1,1-dichloroethene up to 65 ug/l. Therefore, the chlorinated solvents previously detected in the deeper portion of the aquifer on the western portion of the site, primarily 1,1,1-trichloroethane and its degradation byproducts, were not detected in the shallow groundwater samples at concentrations above TOGS in this most recent investigation. Furthermore, chloroform was not detected south of the laboratory where it was previously detected in MW-9D (groundwater) and SB-11 (soil) in 2011. Most importantly, none of the VOC detections are indicative of source concentrations.

Please do not hesitate to contact us with any questions or comments.

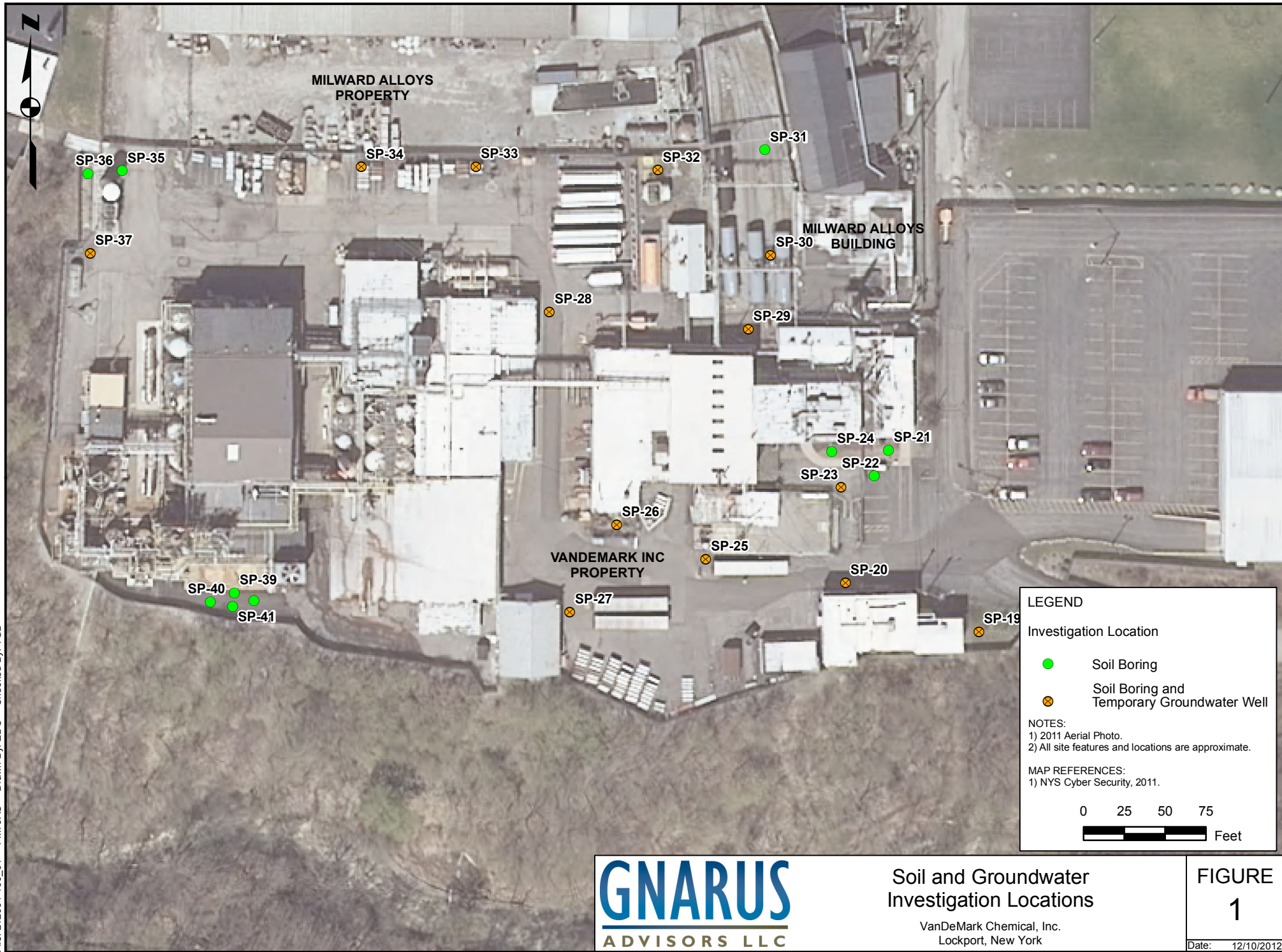
Sincerely yours,

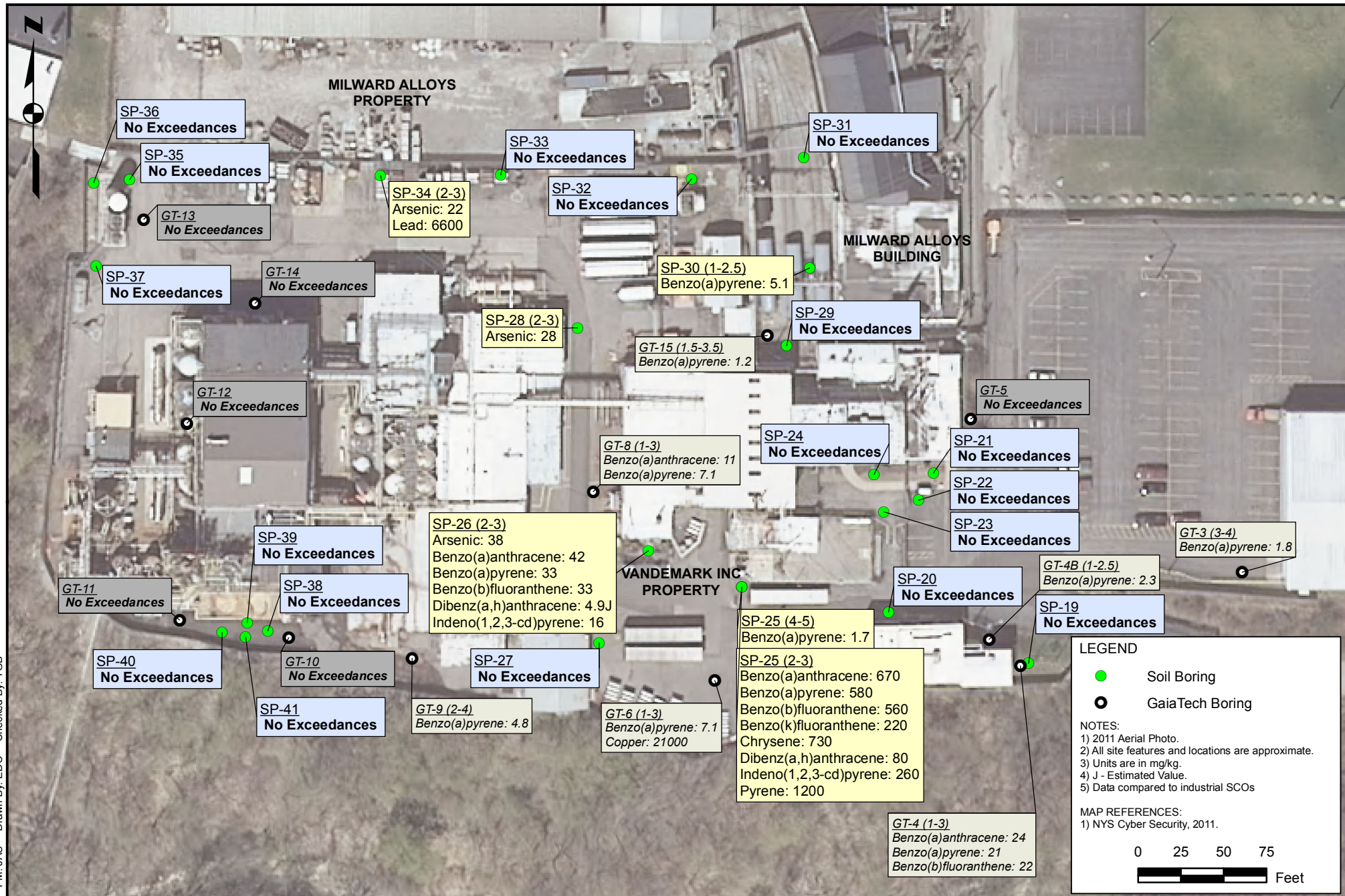
A handwritten signature in blue ink, appearing to read "John A. Simon".

John A. Simon
Director, Gnarus Advisors LLC

A handwritten signature in blue ink, appearing to read "Todd Bown".

Todd Bown
Technical Specialist - Geologist, Palmerton Group LLC





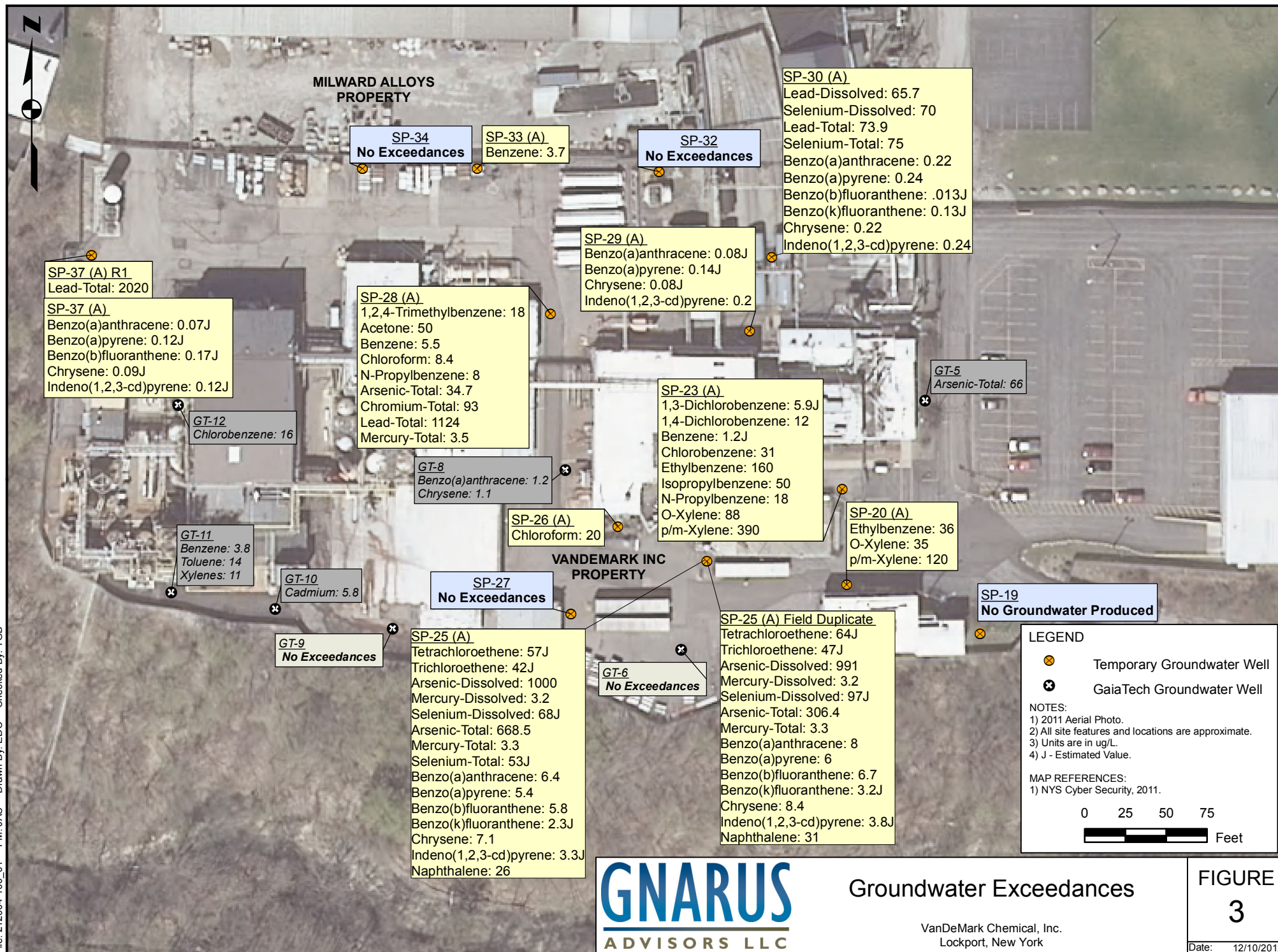


Table 1 - Soil Data.xlsx
Print date: 1/9/18

Table 1
Soil Data - October and November 2012
VanDemark Chemical
Lockport, New York

Sample ID Sample Date Sample Time			SP-38 (1-2) 10/29/12 11:00	SP-38 (8-9) 10/29/12 11:05	SP-38 (17-18.5) 10/29/12 11:10	SP-39 (2-2.5) 10/29/12 11:20	SP-39 (8-9) 10/29/12 11:30	SP-39 (16-16.6) 10/29/12 11:40	SP-40 (1-2) 10/29/12 11:50	SP-40 (8-9) 10/29/12 11:55	SP-40 (19-19.9) 10/29/12 12:05	SP-41 (1-1.5) 10/29/12 13:15	SP-41 (8-9) 10/29/12 13:20	SP-41 (19-19.5) 10/29/12 13:30	SP-35 (2-2.5) 10/29/12 14:00	SP-35 (4-5) 10/29/12 14:10	SP-36 (1-2) 10/29/12 14:25	SP-36 (4-5) 10/29/12 14:30	SP-36 (4-5) R2 10/29/12 14:30	SP-37 (1-2) 10/31/12 9:05	SP-37 (4-5) 10/31/12 9:15
Analyte	NYSDEC Industrial SCOs ^a	NYSDEC Protection of Groundwater SCOs ^b																			
Trichlorofluoromethane			--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	ND
Vinyl acetate			--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	ND
Vinyl chloride	27		--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	ND
Xylenes, Total	1,000	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Metals																					
Arsenic	16	16	3.7	4.3	2	6	6.8	3.4	4.9	5.7	9.5	5.1	7.7	9.7	9.2	1	4.3	0.71	--	2.5	3.6
Barium	10,000		--	--	--	--	--	--	--	--	--	--	--	--	73	38	130	18	--	25	53
Cadmium	60	7.5	--	--	--	--	--	--	--	--	--	--	--	--	1	0.06 J	4.2	0.37 J	--	0.14 J	1.6
Chromium	800	19	--	--	--	--	--	--	--	--	--	--	--	--	39	12	56	5.8	--	3.2	16
Copper	10,000	1,720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	3,900	450	--	--	--	--	--	--	--	--	--	--	--	--	3800	12	920	87	--	16	2400
Magnesium	Not Established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	5.7		--	--	--	--	--	--	--	--	--	--	--	--	0.05 J	0.05 J	0.31	0.03 J	--	ND	0.06 J
Nickel	10,000	130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	6,800		--	--	--	--	--	--	--	--	--	--	--	--	0.87 J	0.66 J	0.6 J	0.16 J	--	0.27 J	1.1
Silver	6,800		--	--	--	--	--	--	--	--	--	--	--	--	0.56 J	ND	0.8	ND	--	0.13 J	0.14 J
Zinc	10,000	2,480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs																					
2,4,5-Trichlorophenol	1,000	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	1,000	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	1,000	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	Not established	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	ND	ND
2-Chlorophenol	1,000	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	Not established	36.4	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	ND	ND
2-Methylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	Not established	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	Not established	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	Not established	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	1,000	0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	Not established	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	1,000	98	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	0.059 J	--	ND	ND
Acenaphthylene	1,000	107	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	ND	ND
Acetophenone	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	1,000	1,000	--	--	--	--	--	--	--	--	--	--	--	--	0.069 J	ND	0.098 J	0.077 J	--	ND	ND
Atrazine	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	11	1	--	--	--	--	--	--	--	--	--	--	--	--	0.28	ND	0.22	0.1 J	--	0.1	ND
Benzo(a)pyrene	1	22	--	--	--	--	--	--	--	--	--	--	--	--	0.24	ND	0.18	0.075 J	--	0.096 J	ND
Benzo(b)fluoranthene	11	1.7	--	--	--	--	--	--	--	--	--	--	--	--	0.29	ND	0.25	0.11	--	0.13	ND
Benzo(g,h,i)perylene	1,000	1,000	--	--	--	--	--	--	--	--	--	--	--	--	0.14 J	ND	0.098 J	ND	--	0.079 J	ND
Benzo(k)fluoranthene	110	1.7	--	--	--	--	--	--	--	--	--	--	--	--	0.12	ND	0.087 J	0.043 J	--	0.051 J	ND
Biphenyl	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	Not Established	435	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	1,000	122	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	110	1	--	--	--	--	--	--	--	--	--	--	--	--	0.31	ND	0.24	0.1 J	--	0.12	ND
Dibenz(a,h)anthracene	1	1,000	--	--	--	--	--	--	--	--	--	--	--	--	0.042 J	ND	ND	ND	--	ND	ND
Dibenzofuran	1,000	210	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	1,000	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	1,000	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	1,000	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	1,000	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	1,000	1,000	--	--	--	--	--	--	--	--	--	--	--	--	0.43	ND	0.44	0.21	--	0.19	0.04
Fluorene	1,000	386	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	0.06 J	--	ND	ND
Hexachlorobenzene	12	3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Soil Data - October and November 2012
VanDemark Chemical
Lockport, New York

Sample ID Sample Date Sample Time			SP-38 (1-2) 10/29/12 11:00	SP-38 (8-9) 10/29/12 11:05	SP-38 (17-18.5) 10/29/12 11:10	SP-39 (2-2.5) 10/29/12 11:20	SP-39 (8-9) 10/29/12 11:30	SP-39 (16-16.6) 10/29/12 11:40	SP-40 (1-2) 10/29/12 11:50	SP-40 (8-9) 10/29/12 11:55	SP-40 (19-19.9) 10/29/12 12:05	SP-41 (1-1.5) 10/29/12 13:15	SP-41 (8-9) 10/29/12 13:20	SP-41 (19-19.5) 10/29/12 13:30	SP-35 (2-2.5) 10/29/12 14:00	SP-35 (4-5) 10/29/12 14:10	SP-36 (1-2) 10/29/12 14:25	SP-36 (4-5) 10/29/12 14:30	SP-36 (4-5) R2 10/29/12 14:30	SP-37 (1-2) 10/31/12 9:05	SP-37 (4-5) 10/31/12 9:15
Analyte	NYSDEC Industrial SCOs ^a	NYSDEC Protection of Groundwater SCOs ^b																			
Hexachlorocyclopentadiene	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Hexachloroethane	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Indeno(1,2,3-cd)pyrene	11	1,000	--	--	--	--	--	--	--	--	--	--	--	--	0.12 J	ND	0.1 J	ND	--	0.088 J	ND
Isophorone	1,000	4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Naphthalene	1,000	12	--	--	--	--	--	--	--	--	--	--	--	--	0.065 J	ND	ND	0.08 J	--	ND	ND
Nitrobenzene	140	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
N-Nitrosodi-n-propylamine	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
N-Nitrosodiphenylamine	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Pentachlorophenol	55	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Phenanthrene	1,000	1,000	--	--	--	--	--	--	--	--	--	--	--	--	0.43	ND	0.39	0.26	--	0.074 J	0.048
Phenol	1,000	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Pyrene	1,000	1,000	--	--	--	--	--	--	--	--	--	--	--	--	0.51	ND	0.42	0.18	--	0.18	0.054

Notes:

All concentrations are in mg/kg.

ND = Not detected.

-- = Not analyzed.

E = Estimated value obtained from a 125:1 dilution.

J = Estimated concentration.

(1) Sample had an adjusted volume during extraction due to extract matrix and/or viscosity.

(2) Dilution required due to high concentration of target analyte.

(3) Analyte detected at a level less than Reporting Limit and greater than or equal to the Method Detection Limit.

(4) Laboratory Control Sample and/or laboratory control sample duplicate recovery was below acceptance limits.

Bold text and yellow highlighting indicates exceedance of NYSDEC Industrial Soil Cleanup Objectives (SCOs).**Bold text and blue highlighting indicates exceedance of NYSDEC Protection of Groundwater SCOs.****Bold text, yellow/blue highlighting, and boxed values indicate exceedance of both NYSDEC Industrial SCOs and Protection of Groundwater SCOs.**

a) NYSDEC Industrial SCOs from NYSDEC Table 375-6.8(b); Restricted Use Soil Cleanup Objectives (Industrial) and NYSDEC CP-51 Soil Cleanup Guidelines.

b) NYSDEC Protection of Groundwater SCOs from NYSDEC Table 375-6.8(b); Restricted Use Soil Cleanup Objectives (Industrial) and NYSDEC CP-51 Soil Cleanup Guidelines.

**FIELD DUPLICATE is associated with SP-24 (1.5-3)

Table 1
Soil Data - October and November 2012
VanDemark Chemical
Lockport, New York

Sample ID Sample Date Sample Time			SP-37 (8-9) 10/31/12 9:25	SP-34 (2-3) 10/31/12 9:55	SP-28 (2-3) 10/31/12 10:20	SP-28 (4-5) 10/31/12 10:30	SP-29 (2-3) 10/31/12 10:40	SP-29 (4-5) 10/31/12 10:45	SP-30 (1-2.5) 10/31/12 14:35	SP-30 (4-5.3) 10/31/12 14:40	SP-31 (2-2.5) 10/31/12 15:10	SP-31 (4-4.9) 10/31/12 15:15	SP-26 (2-3) 11/1/12 9:40	SP-26 (4-5) 11/1/12 9:50	SP-25 (2-3) 11/1/12 10:15	SP-25 (4-5) 11/1/12 10:20	SP-22 (2-3) 11/1/12 10:55	SP-22 (4-5) 11/1/12 11:00	SP-21 (2-2.5) 11/1/12 11:10	SP-21 (4-5) 11/1/12 11:15	SP-23 (2-2.5) 11/1/12 13:10	
Analyte	NYSDEC Industrial SCOs ^a	NYSDEC Protection of Groundwater SCOs ^b																				
VOCs																						
1,1,1,2-Tetrachloroethane	1,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	480		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloropropene	1,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4,5-Tetramethylbenzene	380	3.6	ND	ND	3.4	0.0079	ND	ND	ND	ND	ND	ND	ND	ND	0.062 J	0.0003 J	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene			ND	ND	0.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55 J	0.0029 J	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	1,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	60	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	380		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17J	0.00082 J	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	560		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichloropropane	250		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0019 J	ND	
1,4-Diethylbenzene			ND	ND	0.47 J	0.00075 J	ND	ND	ND	ND	ND	ND	ND	ND	0.39 J	0.0015	ND	0.00023 J	ND	ND	ND	ND
1,4-Dioxane	250		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,2-Dichloropropane	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone	1,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Hexanone	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Ethyltoluene	1,000	0.05	ND	ND	0.081 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	0.0034 J	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acetone			0.009 J	0.04	ND	0.01 J	0.05	0.0093 J	0.031	0.068	0.034	0.022	ND	0.0091 J	ND	0.028	0.015	0.019	ND	0.015	ND	
Acrylonitrile	89		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	0.0018	ND	ND	ND	ND	
Bromobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromochloromethane	1,000	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane	1,000	0.76	ND	0.00092 J	ND	0.00077 J	ND	ND	0.0012 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon Disulfide			ND	ND	ND	0.00056 J	0.00048 J	ND	ND	ND	0.001 J	0.00047 J	0.002 J	0.00053 J	ND	0.0032 J	ND	ND	ND	0.00071 J	0.00046 J	
Carbon Tetrachloride	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0017	ND	ND	ND	ND	ND	ND	
Chlorobenzene	1,000	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	ND	0.0057	ND	
Chloroethane	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	700		ND	0.0094	ND	ND	ND	ND	ND	0.00048 J	ND	ND	0.058	0.006	15	0.15	0.027	0.0021	0.00066 J	0.00045 J	0.61 E	
Chloromethane	1,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12 J	0.0029	ND	ND	ND	ND	
cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	1,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethyl ether	780	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	0.0038	ND	ND	ND	0.0013	ND	
Hexachlorobutadiene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Isopropylbenzene	Not Established	Not established	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13 J	0.00048 J	ND	ND	ND	0.003	ND	
M+P-Xylene			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl tert butyl ether			1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	Not Established	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methylene Chloride			1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0038 J	ND	ND	ND	ND	ND
Naphthalene			1,000	ND	ND	0.18 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	0.12	0.0012 J	ND	ND	ND
n-Butylbenzene	1,000		ND	ND	0.62	0.00087 J	ND	ND	ND	ND	ND	ND	ND	ND	0.061 J	ND	ND	ND	ND	ND	ND	
n-Propylbenzene	1,000		ND	ND	0.38	0.00056 J	ND	ND	ND	ND	ND	ND	ND	ND	0.09 J	ND	ND	ND	ND	0.0015	ND	
o-Chlorotoluene	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
O-Xylene	Not Established	Not established	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.42	0.0033	ND	ND	ND	0.00066 J	ND
p/m-Xylene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	0.0062	ND	ND	ND	0.001 J	ND
p-Chlorotoluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	1,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.059 J	ND	ND	ND	ND	ND	ND	
sec-Butylbenzene			ND	ND	0.38	0.00063 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	1,000	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	300		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	0.022	ND	ND	ND	ND	0.0014	
Toluene	1,000		0.00063 J	ND	ND	ND	ND	0.00028 J	ND	0.0013 J	ND	ND	0.00032 J	ND	0.82	0.0055	ND	ND	0.00034 J	ND	ND	
trans-1,2-Dichloroethene	1,000	0.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	400	0.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene			ND	ND	ND	ND	ND</															

Table 1 - Soil Data.xlsx
Print date: 1/8/18

Table 1
Soil Data - October and November 2012
VanDemark Chemical
Lockport, New York

Sample ID Sample Date Sample Time			SP-37 (8-9) 10/31/12 9:25	SP-34 (2-3) 10/31/12 9:55	SP-28 (2-3) 10/31/12 10:20	SP-28 (4-5) 10/31/12 10:30	SP-29 (2-3) 10/31/12 10:40	SP-29 (4-5) 10/31/12 10:45	SP-30 (1-2.5) 10/31/12 14:35	SP-30 (4-5.3) 10/31/12 14:40	SP-31 (2-2.5) 10/31/12 15:10	SP-31 (4-4.9) 10/31/12 15:15	SP-26 (2-3) 11/1/12 9:40	SP-26 (4-5) 11/1/12 9:50	SP-25 (2-3) 11/1/12 10:15	SP-25 (4-5) 11/1/12 10:20	SP-22 (2-3) 11/1/12 10:55	SP-22 (4-5) 11/1/12 11:00	SP-21 (2-2.5) 11/1/12 11:10	SP-21 (4-5) 11/1/12 11:15	SP-23 (2-2.5) 11/1/12 13:10
Analyte	NYSDEC Industrial SCOs ^a	NYSDEC Protection of Groundwater SCOs ^b																			
Hexachlorocyclopentadiene	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	11	1,000	ND	--	--	--	0.27 J	0.098 J	2.3	0.3	ND	0.074 J	16	ND	260	0.76	--	--	--	--	--
Isophorone	1,000	4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	1,000	12	ND	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	84	0.47	--	--	--	--	--
Nitrobenzene	140	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	Not established	Not established	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	55	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	1,000	1,000	ND	--	--	--	0.57	0.089 J	4.2	0.48	ND	0.059 J	51	0.12	320	2.2	--	--	--	--	--
Phenol	1,000	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	1,000	1,000	ND	--	--	--	1.1	0.31	10	1.2	0.037 J	0.14	78	0.13	1200	3.7	--	--	--	--	--

[REDACTED]

Table 1
Soil Data - October and November 2012
VanDemark Chemical
Lockport, New York

Sample ID			SP-23 (2-2.5) R1	SP-23 (4-5)	SP-24 (1.5-3)	SP-24 (1.5-3) R1	FIELD DUPLICATE**	FIELD DUPLICATE** R1	SP-24 (4-5)	SP-19 (1-2.5)	SP-19 (4-5)
Sample Date			11/1/12	11/1/12	11/1/12	11/1/12	11/1/12	11/1/12	11/1/12	11/1/12	11/1/12
Sample Time			13:10	13:15	13:30	13:30	13:30	13:30	13:35	14:00	14:15
Analyte	NYSDEC Industrial SCOs ^a	NYSDEC Protection of Groundwater SCOs ^b									
VOCs											
1,1,1,2-Tetrachloroethane			--	ND	ND	--	ND	--	ND	ND	ND
1,1,1-Trichloroethane	1,000		--	ND	ND	--	ND	--	ND	ND	ND
1,1,2,2-Tetrachloroethane			--	ND	ND	--	ND	--	ND	ND	ND
1,1,2-Trichloroethane			--	ND	ND	--	ND	--	ND	ND	ND
1,1-Dichloroethane	480		--	ND	ND	--	ND	--	ND	ND	ND
1,1-Dichloroethene	1,000		--	ND	ND	--	ND	--	ND	ND	ND
1,1-Dichloropropene			--	ND	ND	--	ND	--	ND	ND	ND
1,2,3-Trichlorobenzene			--	ND	ND	--	ND	--	ND	ND	ND
1,2,3-Trichloropropane			--	ND	ND	--	ND	--	ND	ND	ND
1,2,4,5-Tetramethylbenzene			--	ND	ND	--	ND	--	ND	ND	ND
1,2,4-Trichlorobenzene			--	ND	ND	--	ND	--	ND	ND	ND
1,2,4-Trimethylbenzene	380	3.6	--	ND	0.34 J	--	0.34 J	--	ND	ND	ND
1,2-Dibromo-3-chloropropane			--	ND	ND	--	ND	--	ND	ND	ND
1,2-Dibromoethane			--	ND	ND	--	ND	--	ND	ND	ND
1,2-Dichlorobenzene	1,000		--	ND	ND	--	ND	--	ND	ND	ND
1,2-Dichloroethane	60		--	ND	ND	--	ND	--	ND	ND	ND
1,2-Dichloropropane			--	ND	ND	--	ND	--	ND	ND	ND
1,3,5-Trimethylbenzene	380	8.4	--	ND	0.72	--	0.68 J	--	ND	ND	ND
1,3-Dichlorobenzene	560		--	ND	ND	--	ND	--	0.00084 J	ND	ND
1,3-Dichloropropane			--	ND	ND	--	ND	--	ND	ND	ND
1,4-Dichlorobenzene	250		--	ND	ND	--	ND	--	0.0007 J	ND	ND
1,4-Diethylbenzene			--	ND	ND	--	ND	--	ND	ND	ND
1,4-Dioxane	250		--	ND	ND	--	ND	--	ND	ND	ND
2,2-Dichloropropane			--	ND	ND	--	ND	--	ND	ND	ND
2-Butanone	1,000		--	ND	ND	--	ND	--	ND	ND	ND
2-Hexanone			--	ND	ND	--	ND	--	ND	ND	ND
4-Ethyltoluene			--	ND	6.2	--	5.8	--	ND	ND	ND
4-Methyl-2-pentanone			--	ND	ND	--	ND	--	ND	ND	ND
Acetone	1,000	0.05	--	0.0059 J	ND	--	ND	--	0.017	ND	ND
Acrylonitrile			--	ND	ND	--	ND	--	ND	ND	ND
Benzene	89		--	ND	ND	--	ND	--	ND	ND	ND
Bromobenzene			--	ND	ND	--	ND	--	ND	ND	ND
Bromochloromethane			--	ND	ND	--	ND	--	ND	ND	ND
Bromodichloromethane			--	ND	ND	--	ND	--	ND	ND	ND
Bromoform			--	ND	ND	--	ND	--	ND	ND	ND
Bromomethane			--	ND	0.11 J	--	0.26 J	--	ND	ND	ND
Carbon Disulfide	1,000	2.7	--	0.0034 J	ND	--	0.056 J	--	ND	ND	ND
Carbon Tetrachloride	44	0.76	--	ND	ND	--	ND	--	ND	ND	ND
Chlorobenzene	1,000		--	ND	0.089 J	--	0.2	--	0.00027 J	ND	ND
Chloroethane			--	ND	ND	--	ND	--	ND	ND	ND
Chloroform	700	0.37	0.81	0.23	2.2	--	31 E	48	ND	0.0028	0.002
Chloromethane			--	ND	ND	--	ND	--	ND	ND	ND
cis-1,2-Dichloroethene	1,000		--	ND	ND	--	ND	--	ND	ND	ND
cis-1,3-Dichloropropene			--	ND	ND	--	ND	--	ND	ND	ND
Dibromochloromethane			--	ND	ND	--	ND	--	ND	ND	ND
Dibromomethane			--	ND	ND	--	ND	--	ND	ND	ND
Dichlorodifluoromethane			--	ND	ND	--	ND	--	ND	ND	ND
Ethyl ether			--	ND	ND	--	ND	--	ND	ND	ND
Ethylbenzene	780	1	--	ND	81 E	520	84 E	120	0.0014	ND	ND
Hexachlorobutadiene			--	ND	ND	--	ND	--	ND	ND	ND
Isopropylbenzene			--	ND	5.1	--	4.9	--	ND	ND	ND
M+P-Xylene	Not Established	Not established	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	1,000		--	ND	ND	--	ND	--	ND	ND	ND
Methylcyclohexane	Not Established	Not established	--	--	--	--	--	--	--	--	--
Methylene Chloride	1,000	0.05	--	ND	ND	--	ND	--	ND	ND	ND
Naphthalene	1,000		--	ND	ND	--	ND	--	ND	ND	ND
n-Butylbenzene	1,000		--	ND	ND	--	ND	--	ND	ND	ND
n-Propylbenzene	1,000		--	ND	3	--	2.8	--	ND	ND	ND
o-Chlorotoluene			--	ND	ND	--	ND	--	ND	ND	ND
O-Xylene	Not Established	Not established	--	ND	150 E	820	140 E	220	0.0022	ND	ND
p/m-Xylene			--	ND	270 E	2000	280 E	490	0.0058	0.00098 J	0.00072 J
p-Chlorotoluene			--	ND	ND	--	ND	--	ND	ND	ND
p-Isopropyltoluene			--	ND	ND	--	ND	--	ND	ND	ND
sec-Butylbenzene	1,000		--	ND	ND	--	ND	--	ND	ND	ND
Styrene			--	ND	ND	--	ND	--	ND	ND	ND
tert-Butylbenzene	1,000		--	ND	ND	--	ND	--	ND	ND	ND
Tetrachloroethene	300	1.3	--	ND	0.68	--	2.1	--	ND	0.0013	ND
Toluene	1,000	0.7	--	0.00061 J	2.8	--	3.8	--	ND	ND	ND
trans-1,2-Dichloroethene	1,000		--	ND	ND	--	ND	--	ND	ND	ND
trans-1,3-Dichloropropene			--	ND	ND	--	ND	--	ND	ND	ND
trans-1,4-Dichloro-2-butene			--	ND	ND	--	ND	--	ND	ND	ND
Trichloroethene	400	0.47	--	0.00041 J	ND	--	0.38	--	ND	ND	ND

Table 1
Soil Data - October and November 2012
VanDemark Chemical
Lockport, New York

Sample ID			SP-23 (2-2.5) R1	SP-23 (4-5)	SP-24 (1.5-3)	SP-24 (1.5-3) R1	FIELD DUPLICATE**	FIELD DUPLICATE** R1	SP-24 (4-5)	SP-19 (1-2.5)	SP-19 (4-5)
Sample Date			11/1/12	11/1/12	11/1/12	11/1/12	11/1/12	11/1/12	11/1/12	11/1/12	11/1/12
Sample Time			13:10	13:15	13:30	13:30	13:30	13:30	13:35	14:00	14:15
Analyte	NYSDEC Industrial SCOs ^a	NYSDEC Protection of Groundwater SCOs ^b									
Trichlorofluoromethane			--	ND	ND	--	ND	--	ND	ND	ND
Vinyl acetate			--	ND	ND	--	ND	--	ND	ND	ND
Vinyl chloride	27		--	ND	ND	--	ND	--	ND	ND	ND
Xylenes , Total	1,000	1.6	--	--	--	--	--	--	--	--	--
Total Metals			--	--	--	--	--	--	--	--	--
Arsenic	16	16	--	--	--	--	--	--	--	--	--
Barium	10,000		--	--	--	--	--	--	--	--	--
Cadmium	60	7.5	--	--	--	--	--	--	--	--	--
Chromium	800	19	--	--	--	--	--	--	--	--	--
Copper	10,000	1,720	--	--	--	--	--	--	--	--	--
Lead	3,900	450	--	--	--	--	--	--	--	42	6
Magnesium	Not Established	Not established	--	--	--	--	--	--	--	--	--
Mercury	5.7		--	--	--	--	--	--	--	--	--
Nickel	10,000	130	--	--	--	--	--	--	--	--	--
Selenium	6,800		--	--	--	--	--	--	--	--	--
Silver	6,800		--	--	--	--	--	--	--	--	--
Zinc	10,000	2,480	--	--	--	--	--	--	--	--	--
SVOCs											
2,4,5-Trichlorophenol	1,000	0.1	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	Not established	Not established	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	1,000	0.4	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	1,000	0.2	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	Not established	Not established	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	Not established	1	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	Not established	Not established	--	--	--	--	--	--	--	--	--
2-Chlorophenol	1,000	Not established	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	Not established	36.4	--	--	--	--	--	--	--	--	--
2-Methylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--
2-Nitroaniline	Not established	0.4	--	--	--	--	--	--	--	--	--
2-Nitrophenol	Not established	0.3	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	Not established	Not established	--	--	--	--	--	--	--	--	--
3-Nitroaniline	Not established	0.5	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	Not established	Not established	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	Not established	Not established	--	--	--	--	--	--	--	--	--
4-Chloroaniline	1,000	0.22	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	Not established	Not established	--	--	--	--	--	--	--	--	--
4-Nitroaniline	Not established	Not established	--	--	--	--	--	--	--	--	--
4-Nitrophenol	Not established	0.1	--	--	--	--	--	--	--	--	--
Acenaphthene	1,000	98	--	--	--	--	--	--	--	--	--
Acenaphthylene	1,000	107	--	--	--	--	--	--	--	--	--
Acetophenone	Not established	Not established	--	--	--	--	--	--	--	--	--
Anthracene	1,000	1,000	--	--	--	--	--	--	--	--	--
Atrazine	Not established	Not established	--	--	--	--	--	--	--	--	--
Benzaldehyde	Not established	Not established	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	11	1	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	22	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	11	1.7	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	1,000	1,000	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	110	1.7	--	--	--	--	--	--	--	--	--
Biphenyl	Not established	Not established	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	Not established	Not established	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	Not established	Not established	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl) ether	Not established	Not established	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	Not Established	435	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	1,000	122	--	--	--	--	--	--	--	--	--
Caprolactam	Not established	Not established	--	--	--	--	--	--	--	--	--
Carbazole	Not established	Not established	--	--	--	--	--	--	--	--	--
Chrysene	110	1	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	1	1,000	--	--	--	--	--	--	--	--	--
Dibenzofuran	1,000	210	--	--	--	--	--	--	--	--	--
Diethyl phthalate	1,000	7.1	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	1,000	27	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	1,000	8.1	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	1,000	120	--	--	--	--	--	--	--	--	--
Fluoranthene	1,000	1,000	--	--	--	--	--	--	--	--	--
Fluorene	1,000	386	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	12	3.2	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	Not established	Not established	--	--	--	--	--	--	--	--	--

Table 1
Soil Data - October and November 2012
VanDemark Chemical
Lockport, New York

Privileged and Confidential
Prepared at Request of Counsel

Sample ID Sample Date Sample Time			SP-23 (2-2.5) R1 11/1/12 13:10	SP-23 (4-5) 11/1/12 13:15	SP-24 (1.5-3) 11/1/12 13:30	SP-24 (1.5-3) R1 11/1/12 13:30	FIELD DUPLICATE** 11/1/12 13:30	FIELD DUPLICATE** R1 11/1/12 13:30	SP-24 (4-5) 11/1/12 13:35	SP-19 (1-2.5) 11/1/12 14:00	SP-19 (4-5) 11/1/12 14:15
Analyte	NYSDEC Industrial SCOs ^a	NYSDEC Protection of Groundwater SCOs ^b									
Hexachlorocyclopentadiene	Not established	Not established	--	--	--	--	--	--	--	--	--
Hexachloroethane	Not established	Not established	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	11	1,000	--	--	--	--	--	--	--	--	--
Isophorone	1,000	4.4	--	--	--	--	--	--	--	--	--
Naphthalene	1,000	12	--	--	--	--	--	--	--	--	--
Nitrobenzene	140	0.17	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	Not established	Not established	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	Not established	Not established	--	--	--	--	--	--	--	--	--
Pentachlorophenol	55	0.8	--	--	--	--	--	--	--	--	--
Phenanthrene	1,000	1,000	--	--	--	--	--	--	--	--	--
Phenol	1,000	0.33	--	--	--	--	--	--	--	--	--
Pyrene	1,000	1,000	--	--	--	--	--	--	--	--	--

Table 2
Groundwater Data - October and November 2012
VanDemark Chemical
Lockport, New York

Sample ID		SP-27 110212	SP-27 110212 R1	SP-37 110212	SP-37 110212 R1	SP-29 110212	SP-32 110212	SP-30 110212	TRIP BLANK 110212	TRIP BLANK 111312	SP-23(A) 111312	SP-25(A) 111312
Sample Date(s)		11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/13/12	11/13/12
Sample Time(s)		9:40	9:40	11:25	11:25	14:00	15:10	15:45			13:35	15:20
Location at Site		SP-27	SP-27	SP-37	SP-37	SP-29	SP-32	SP-30	TRIP BLANK	TRIP BLANK	SP-23(A)	SP-25(A)
Analyte	NYSDEC Class GA Standards ¹											
VOCs												
1,1,1,2-Tetrachloroethane	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	--	1.1 J	--	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene		ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0006	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	--	ND	--	ND	ND	ND	ND	ND	5.9 J	ND
1,3-Dichloropropane	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	--	ND	--	ND	ND	ND	ND	ND	12	ND
1,4-Diethylbenzene		ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane		ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
4-Ethyltoluene		ND	--	ND	--	ND	ND	ND	ND	ND	4 J	ND
4-Methyl-2-pentanone		ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Acetone	50*	ND	--	ND	--	ND	ND	12	ND	ND	18 J	ND
Acrylonitrile	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	--	ND	--	ND	ND	ND	ND	ND	1.2 J	ND
Bromobenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50*	ND	--	0.26 J	--	ND	ND	ND	ND	ND	ND	ND
Bromoform	50	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	0.23 J	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	31	ND
Chloroethane	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	18	--	2.3 J	--	ND	ND	ND	ND	ND	ND	ND
Chloromethane		ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	Not Established	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	50*	ND	--	ND	--	ND	ND	ND	ND	0.5	ND	ND
Dibromomethane	5	ND	--	ND	--	ND	ND	ND	ND	5	ND	ND
Dichlorodifluoromethane	5	ND	--	ND	--	ND	ND	ND	ND	5	ND	ND
Ethyl ether		ND	--	ND	--	ND	ND	ND	ND	2.5	ND	ND
Ethylbenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	160	ND
Hexachlorobutadiene	0.5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	50	ND

Table 2
Groundwater Data - October and November 2012
VanDemark Chemical

Privileged and Confidential
Prepared at Request of Counsel

Sample ID		SP-27 110212	SP-27 110212 R1	SP-37 110212	SP-37 110212 R1	SP-29 110212	SP-32 110212	SP-30 110212	TRIP BLANK 110212	TRIP BLANK 111312	SP-23(A) 111312	SP-25(A) 111312
Sample Date(s)		11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/13/12	11/13/12
Sample Time(s)		9:40	9:40	11:25	11:25	14:00	15:10	15:45			13:35	15:20
Location at Site		SP-27	SP-27	SP-37	SP-37	SP-29	SP-32	SP-30	TRIP BLANK	TRIP BLANK	SP-23(A)	SP-25(A)
NYSDEC Class GA												
Analyte	Standards ¹											
M+P-Xylene	10	--	--	--	--	--	--	--	--	--	--	--
Methyl-t-Butyl Ether (MTBE)	10*	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	Not Established	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
N-Propylbenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	18	ND
o-Chlorotoluene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
O-Xylene	5	ND	--	ND	--	ND	ND	ND	ND	ND	88	ND
p/m-Xylene	5	ND	--	ND	--	ND	ND	ND	ND	ND	390	ND
p-Chlorotoluene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
p-Cymene	5	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	0.51	--	ND	--	ND	ND	ND	ND	ND	ND	64 J
Toluene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	0.46 J	--	ND	--	ND	ND	ND	ND	ND	ND	47 J
Trichlorofluoromethane	5	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND
Xylenes , Total	5	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals												
Arsenic	25	--	2.3	--	6.2	5	--	21.9	--	--	--	991
Barium	1,000	124	--	2.1	--	8.2	--	782.9	--	--	--	5.3 J
Beryllium	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	5	0.4 J	--	0.1 J	--	0.1 J	--	1.8 J	--	--	--	ND
Chromium	50	--	4.1	--	0.4 J	15.5	--	7.5 J	--	--	--	18.4 J
Copper	200	--	--	--	--	--	--	--	--	--	--	--
Iron	300	--	--	--	--	--	--	--	--	--	--	--
Lead	25	9.2	--	22.7	--	2.2	--	65.7	--	--	--	ND
Magnesium	35,000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.7	ND	--	ND	--	ND	--	ND	--	--	--	3.2
Nickel	100	--	--	--	--	--	--	--	--	--	--	--
Selenium	10	--	ND	--	1 J	1 J	--	70	--	--	--	97 J
Silver	50	ND	--	ND	--	ND	--	ND	--	--	--	ND
Sodium	20,000	--	--	--	--	--	--	--	--	--	--	--
Total Metals												
Arsenic	25	--	4	8.7	--	5.2	--	23.6	--	--	--	306.4
Barium	1,000	144.5	--	56.3	--	9.4	--	858.7	--	--	--	46.8
Cadmium	5	1.4 J	--	1.6	--	0.1 J	--	1.6 J	--	--	--	ND
Chromium	50	--	6.3	10.1	--	16.7	--	7.6 J	--	--	--	ND
Lead	25	23.9	--	--	2020	2.5	--	73.9	--	--	--	4.1 J
Mercury	0.7	ND	--	0.2	--	ND	--	ND	--	--	--	3.3
Selenium	10	--	ND	1 J	--	2 J	--	75	--	--	--	9 J
Silver	50	ND	--	0.2 J	--	ND	--	ND	--	--	--	ND

Table 2
Groundwater Data - October and November 2012
VanDemark Chemical

Lockport, New York												
Sample ID		SP-27 110212	SP-27 110212 R1	SP-37 110212	SP-37 110212 R1	SP-29 110212	SP-32 110212	SP-30 110212	TRIP BLANK 110212	TRIP BLANK 111312	SP-23(A) 111312	SP-25(A) 111312
Sample Date(s)		11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/2/12	11/13/12	11/13/12
Sample Time(s)		9:40	9:40	11:25	11:25	14:00	15:10	15:45			13:35	15:20
Location at Site		SP-27	SP-27	SP-37	SP-37	SP-29	SP-32	SP-30	TRIP BLANK	TRIP BLANK	SP-23(A)	SP-25(A)
Analyte	NYSDEC Class GA											
	Standards ¹											
SVOCs												
2-Chloronaphthalene	10*	ND	--	ND	--	ND	--	ND	--	--	--	ND
2,4-Dimethylphenol	50*	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	Not Established	ND	--	ND	--	ND	--	0.06	--	--	--	9.4
Acenaphthene	20	ND	--	ND	--	ND	--	0.74	--	--	--	4.9
Acenaphthylene	Not Established	ND	--	ND	--	ND	--	ND	--	--	--	ND
Acetophenone	Not Established	--	--	--	--	--	--	--	--	--	--	--
Anthracene	50*	ND	--	ND	--	ND	--	0.29	--	--	--	3.8 J
Benzaldehyde	Not Established	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	0.002*	ND	--	0.07 J	--	0.08 J	--	0.22	--	--	--	8
Benzo(a)pyrene	ND	ND	--	0.12 J	--	0.14 J	--	0.24	--	--	--	6
Benzo(b)fluoranthene	0.002*	ND	--	0.17 J	--	ND	--	0.13 J	--	--	--	6.7
Benzo(g,h,i)perylene	Not Established	ND	--	0.1 J	--	ND	--	0.1 J	--	--	--	4.3
Benzo(k)fluoranthene	0.002*	ND	--	ND	--	ND	--	0.13 J	--	--	--	3.2 J
Biphenyl	5	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl) ether	1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	5	--	--	--	--	--	--	--	--	--	--	--
Carbazole	Not Established	--	--	--	--	--	--	--	--	--	--	--
Chrysene	0.002*	ND	--	0.09 J	--	0.08 J	--	0.22	--	--	--	8.4
Dibenz(a,h)anthracene	Not Established	ND	--	ND	--	ND	--	ND	--	--	--	2.2 J
Dibenzofuran	Not Established	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate	50*	--	--	--	--	--	--	--	--	--	--	--
Di-n-butylphthalate	50	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	50*	0.1 J	--	0.12 J	--	0.11 J	--	0.62	--	--	--	12
Fluorene	50*	ND	--	ND	--	ND	--	0.38	--	--	--	3.6 J
Indeno(1,2,3-cd)pyrene	0.002*	ND	--	0.12 J	--	0.2	--	0.24	--	--	--	3.8 J
Naphthalene	10*	0.18 J	--	ND	--	ND	--	0.1 J	--	--	--	31
N-Nitrosodiphenylamine	50*	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	1*	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	50*	0.22 J	--	ND	--	0.08 J	--	0.65	--	--	--	16
Phenol	1*	--	--	--	--	--	--	--	--	--	--	--
Pyrene	50*	0.13 J	--	0.12 J	--	0.13 J	--	0.67	--	--	--	20

Notes:

All concentrations are in µg/L.

ND = Not detected.

-- = Not analyzed.

J = Estimated concentration.

Bold text and highlighting indicates exceedance of NYSDEC Class GA Standards.

1) NYSDEC Class GA Standards from NYSDEC Table 1 (cf. section 703.5) Water Quality Standards Surface Waters and Groundwater.

* Guidance values used where NYSDEC Class GA Standards are not yet established. Guidance values taken from NYSDEC Technical & Operational Guidance Series (TOGS) 1.1.1 - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

**FIELD DUPLICATE 11312 is associated with SP-25(A)

Table 2
Groundwater Data - October and November 2012
VanDemark Chemical
Lockport, New York

Sample ID	D DUPLICATE 1113	RIP BLANK 11141	SP-26(A) 111412	SP-28(A) 111412	SP-20(A) 111412	RIP BLANK 11151	SP-33(A) 111512	SP-34(A) 111512	RINSATE BLANK 111512
Sample Date(s)	11/13/12	11/14/12	11/14/12	11/14/12	11/14/12	11/15/12	11/15/12	11/15/12	11/15/12
Sample Time(s)			9:30	12:05	13:35		9:15	10:15	
Location at Site	FIELD DUPLICATE	TRIP BLANK	SP-26(A)	SP-28(A)	SP-20(A)	TRIP BLANK	SP-33(A)	SP-34(A)	RINSATE BLANK
NYSDEC Class GA									
Analyte	Standards¹								
VOCs									
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene		ND	ND	ND	27	ND	4.9	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	18	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0006	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene		ND	ND	ND	3.2	ND	0.79 J	ND	ND
1,4-Dioxane		ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	8.4	ND	3.1 J	1.8 J	ND
2-Hexanone	50	ND	ND	ND	1.1 J	ND	ND	ND	ND
4-Ethyltoluene		ND	ND	ND	1.6 J	ND	ND	ND	ND
4-Methyl-2-pentanone		ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50*	ND	ND	1.2 J	50	ND	17	14	ND
Acrylonitrile	5	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	0.25 J	5.5	ND	3.7	0.4 J	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50*	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60	ND	ND	ND	3.8	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	2.6	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	20	8.4	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND	1.2 J	ND	ND
Cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	1.2 J	ND	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	Not Established	--	--	--	--	--	--	--	--
Dibromochloromethane	50*	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl ether		ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	36	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	4.4	ND	ND	ND	ND

Table 2
Groundwater Data - October and November 2012
VanDemark Chemical

Sample ID		D DUPLICATE 1113	TRIP BLANK 111412	SP-26(A) 111412	SP-28(A) 111412	SP-20(A) 111412	TRIP BLANK 111512	SP-33(A) 111512	SP-34(A) 111512	RINSATE BLANK 111512
Sample Date(s)		11/13/12	11/14/12	11/14/12	11/14/12	11/14/12	11/15/12	11/15/12	11/15/12	11/15/12
Sample Time(s)				9:30	12:05	13:35		9:15	10:15	
Location at Site		FIELD DUPLICATE	TRIP BLANK	SP-26(A)	SP-28(A)	SP-20(A)	TRIP BLANK	SP-33(A)	SP-34(A)	RINSATE BLANK
NYSDEC Class GA										
Analyte	Standards¹									
M+P-Xylene	10	--	--	--	--	--	--	--	--	--
Methyl-t-Butyl Ether (MTBE)	10*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	Not Established	--	--	--	--	--	--	--	--	--
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	5	ND	ND	1 J	ND	ND
n-Butylbenzene	5	ND	ND	ND	3.5	ND	ND	ND	ND	ND
N-Propylbenzene	5	ND	ND	ND	8	ND	ND	1.1 J	ND	ND
o-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	5	ND	ND	ND	2.2 J	35	ND	ND	ND	ND
p/m-Xylene	5	ND	ND	ND	2.6	120	ND	ND	ND	ND
p-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Cymene	5	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	2.7	ND	ND	0.76 J	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	57 J	ND	0.57	ND	ND	ND	0.27 J	ND	ND
Toluene	5	ND	ND	ND	2.9	ND	ND	1.6 J	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	42 J	ND	0.32 J	ND	ND	ND	0.44 J	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	0.37 J	ND	ND
Xylenes , Total	5	--	--	--	--	--	--	--	--	--
Dissolved Metals										
Arsenic	25	1000	--	1.4 J	10.4	12.4	--	--	--	--
Barium	1,000	31.7	--	27.5	242.4	103.4	--	--	--	--
Beryllium	3*	--	--	--	--	--	--	--	--	--
Cadmium	5	ND	--	0.48 J	0.1 J	ND	--	--	--	--
Chromium	50	16.6 J	--	0.7 J	0.5 J	0.5 J	--	--	--	--
Copper	200	--	--	--	--	--	--	--	--	--
Iron	300	--	--	--	--	--	--	--	--	--
Lead	25	ND	--	ND	0.6 J	ND	--	--	--	--
Magnesium	35,000*	--	--	--	--	--	--	--	--	--
Manganese	300	--	--	--	--	--	--	--	--	--
Mercury	0.7	3.2	--	ND	ND	ND	--	--	--	--
Nickel	100	--	--	--	--	--	--	--	--	--
Selenium	10	68 J	--	3 J	1 J	1 J	--	--	--	--
Silver	50	ND	--	ND	ND	ND	--	--	--	--
Sodium	20,000	--	--	--	--	--	--	--	--	--
Total Metals										
Arsenic	25	668.5	--	ND	34.7	11.6	--	--	--	0.2
Barium	1,000	ND	--	19.9	634	89.8	--	--	--	ND
Cadmium	5	ND	--	ND	3.1	ND	--	--	--	ND
Chromium	50	ND	--	ND	93	ND	--	--	--	0.3
Lead	25	50	--	ND	1124	ND	--	--	--	ND
Mercury	0.7	3.3	--	ND	3.5	ND	--	--	--	ND
Selenium	10	53 J	--	3 J	ND	ND	--	--	--	ND
Silver	50	ND	--	ND	ND	ND	--	--	--	ND

Table 2
Groundwater Data - October and November 2012
VanDemark Chemical

Sample ID		D DUPLICATE 1113	TRIP BLANK 111412	SP-26(A) 111412	SP-28(A) 111412	SP-20(A) 111412	TRIP BLANK 111512	SP-33(A) 111512	SP-34(A) 111512	RINSATE BLANK 111512
Sample Date(s)		11/13/12	11/14/12	11/14/12	11/14/12	11/14/12	11/15/12	11/15/12	11/15/12	11/15/12
Sample Time(s)				9:30	12:05	13:35		9:15	10:15	
Location at Site		FIELD DUPLICATE	TRIP BLANK	SP-26(A)	SP-28(A)	SP-20(A)	TRIP BLANK	SP-33(A)	SP-34(A)	RINSATE BLANK
Analyte	NYSDEC Class GA Standards ¹									
SVOCs										
2-Chloronaphthalene	10*	ND	--	ND	--	ND	--	--	--	ND
2,4-Dimethylphenol	50*	--	--	--	--	--	--	--	--	ND
2-Methylnaphthalene	Not Established	7.8	--	ND	--	0.07 J	--	--	--	ND
Acenaphthene	20	4.4	--	ND	--	0.08 J	--	--	--	ND
Acenaphthylene	Not Established	ND	--	ND	--	ND	--	--	--	--
Acetophenone	Not Established	--	--	--	--	--	--	--	--	--
Anthracene	50*	3.6 J	--	ND	--	0.09 J	--	--	--	ND
Benzaldehyde	Not Established	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	0.002*	6.4	--	ND	--	ND	--	--	--	ND
Benzo(a)pyrene	ND	5.4	--	ND	--	ND	--	--	--	ND
Benzo(b)fluoranthene	0.002*	5.8	--	ND	--	ND	--	--	--	ND
Benzo(g,h,i)perylene	Not Established	3.7 J	--	ND	--	ND	--	--	--	ND
Benzo(k)fluoranthene	0.002*	2.3 J	--	ND	--	ND	--	--	--	ND
Biphenyl	5	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl) ether	1	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	5	--	--	--	--	--	--	--	--	--
Carbazole	Not Established	--	--	--	--	--	--	--	--	--
Chrysene	0.002*	7.1	--	ND	--	ND	--	--	--	ND
Dibenz(a,h)anthracene	Not Established	2 J	--	ND	--	ND	--	--	--	ND
Dibenzofuran	Not Established	--	--	--	--	--	--	--	--	--
Diethylphthalate	50*	--	--	--	--	--	--	--	--	--
Di-n-butylphthalate	50	--	--	--	--	--	--	--	--	--
Fluoranthene	50*	9.8	--	0.09 J	--	0.18 J	--	--	--	ND
Fluorene	50*	3.3 J	--	0.08 J	--	0.12 J	--	--	--	ND
Indeno(1,2,3-cd)pyrene	0.002*	3.3 J	--	ND	--	ND	--	--	--	ND
Naphthalene	10*	26	--	0.1 J	--	0.12 J	--	--	--	ND
N-Nitrosodiphenylamine	50*	--	--	--	--	--	--	--	--	--
Pentachlorophenol	1*	--	--	--	--	--	--	--	--	--
Phenanthrene	50*	14	--	1.4	--	1.2	--	--	--	ND
Phenol	1*	--	--	--	--	--	--	--	--	--
Pyrene	50*	16	--	0.07 J	--	0.13 J	--	--	--	ND

Appendix A – Boring Logs

SUBSURFACE BORING LOG

Start Date: 11/01/2012

Boring No.
SP - 19

End Date: 11/01/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: **Truck** ☐ **GeoProbe** ☒ **Track** ☐ **Skid** ☐ **ATV** ☐ **Tri-Pod** ☐ **Sonic** ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☒ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 19

SP - 20

SUBSURFACE BORING LOG

Start Date: 11/01/2012

Boring No.
SP - 21

End Date: 11/01/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 21

SUBSURFACE BORING LOG

Start Date: 11/01/2012

Boring No.
SP - 22

End Date: 11/01/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 22

SP - 23

SUBSURFACE BORING LOG

Start Date: 11/01/2012

Boring No.
SP - 24

End Date: 11/01/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 24

SUBSURFACE BORING LOG

Start Date: 11/01/2012

Boring No.
SP - 25

End Date: 11/01/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 25

SUBSURFACE BORING LOG

Start Date: 11/01/2012

Boring No.
SP - 26

End Date: 11/01/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☒ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 26

SUBSURFACE BORING LOG

Start Date: 11/01/2012

Boring No.
SP - 27

End Date: 11/01/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☒ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 27

SUBSURFACE BORING LOG

Start Date: 10/31/2012

Boring No.
SP - 28

End Date: 10/31/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 28

SUBSURFACE BORING LOG

SUBSURFACE BORING LOG

Start Date: 10/31/2012

Boring No.
SP - 30

End Date: 10/31/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☒ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 30

SUBSURFACE BORING LOG

Start Date: 10/31/2012

Boring No.
SP - 31

End Date: 10/31/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 31

SUBSURFACE BORING LOG

Start Date: 10/31/2012

Boring No.
SP - 32

End Date: 10/31/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 32

SUBSURFACE BORING LOG

Start Date: 10/31/2012

Boring No.
SP - 33

End Date: 10/31/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 33

SP - 34

SUBSURFACE BORING LOG

Start Date: 10/29/2012

Boring No.
SP - 35

End Date: 10/29/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 35

SUBSURFACE BORING LOG

Start Date: 10/29/2012

Boring No.

SP - 36

End Date: 10/29/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: **Truck** ☐ **GeoProbe** ☒ **Track** ☐ **Skid** ☐ **ATV** ☐ **Tri-Pod** ☐ **Sonic** ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☒ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.

SP - 36

SUBSURFACE BORING LOG

Start Date: 10/29/2012

Boring No.
SP - 37

End Date: 10/31/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 37

SUBSURFACE BORING LOG

Start Date: 10/29/2012

Boring No.
SP - 38

End Date: 10/29/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F, Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2

Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 38

SUBSURFACE BORING LOG

Start Date: 10/29/2012

Boring No.
SP - 39

End Date: 10/29/2012

Project Number: 31.0180011.00 0002

Geologist: T. Bown

Weather: ~ 45°F. Rain & Wind

Client: Gnarus - Van DeMark

Project Manager: J. Sandberg

Northing:

Datum:

Location (City, State): Lockport, NY

Driller: J. Schweitzer

Easting:

Elev.:

Drill Rig Type: Truck ☐ GeoProbe ☒ Track ☐ Skid ☐ ATV ☐ Tri-Pod ☐ Sonic ☐

Borehole Diameter (in.): 2


Type of Sampling Device: SS ☐ UT ☐ Macro/DT X Rx Core ☐Type of Casing: HSA ☐ Casing ☐ Macro ☐ Dual Tube ☐[illegible]

Depth to Water _____ (ft) Date & Time _____

Depth to Water _____ (ft) Date & Time _____

Comments:

Boring No.
SP - 39

		SUBSURFACE BORING LOG		Start Date: 10/29/2012 End Date: 10/29/2012		Boring No. SP - 40	
Project Number: 31.0180011.00 0002		Geologist: T. Bown		Weather: ~ 45°F, Rain & Wind			
Client: Gnarus - Van DeMark		Project Manager: J. Sandberg		Northing:		Datum:	
Location (City, State): Lockport, NY		Driller: J. Schweitzer		Easting:		Elev.:	
Drill Rig Type: Truck <input type="checkbox"/> GeoProbe X Track <input type="checkbox"/> Skid <input type="checkbox"/> ATV <input type="checkbox"/> Tri-Pod <input type="checkbox"/> Sonic <input type="checkbox"/>				Borehole Diameter (in.): 2			
Type of Sampling Device: SS <input type="checkbox"/> UT <input type="checkbox"/> Macro/DT X Rx Core <input type="checkbox"/>				Type of Casing: HSA <input type="checkbox"/> Casing <input type="checkbox"/> Macro <input type="checkbox"/> Dual Tube <input type="checkbox"/>			
Depth (feet)	Sample ID (Recovery)	Stratum Change	SOIL DESCRIPTION	USCS Symbol	PID Screening (ppm)		
0		0.5	Asphalt				
	S1 (24/48)		Gray Brown, large GRAVEL with coarse to fine sand, dry.	GW	0.0		
			Sample SP - 40 (1 - 2) collected on 10/29/2012 at 11:50				
4							
4		5.5					
	S2 (22/48)	5.5	Brown, CLAY , moist.	CL	0.0		
8							
8			Sample SP - 40 (8 - 9) collected on 10/29/2012 at 11:55				
	S3 (20/48)		Brown, CLAY , moist.	CL	0.0		
12							
12		12					
	S4 (12/48)		Brown, large GRAVEL with little clay, moist.	GC	0.0		
16							
16		16					
	S5 (5/7)		Red Brown, large GRAVEL with silt, wet.	GM	0.0		
			Sample SP - 40 (19 - 19.9) collected on 10/29/2012 at 11:40				
19.9							
			Geoprobe Refusal at 19.9 ft bgs				
Depth to Water _____ (ft) Date & Time _____			Comments:			Boring No. SP - 40	
Depth to Water _____ (ft) Date & Time _____							

PALMERTON GROUP		SUBSURFACE BORING LOG		Start Date: 10/29/2012		Boring No. SP - 41	
				End Date: 10/29/2012			
Project Number: 31.0180011.00 0002		Geologist: T. Bown		Weather: ~ 45°F, Rain & Wind			
Client: Gnarus - Van DeMark		Project Manager: J. Sandberg		Northing:		Datum:	
Location (City, State): Lockport, NY		Driller: J. Schweitzer		Easting:		Elev.:	
Drill Rig Type: Truck <input type="checkbox"/> GeoProbe X Track <input type="checkbox"/> Skid <input type="checkbox"/> ATV <input type="checkbox"/> Tri-Pod <input type="checkbox"/> Sonic <input type="checkbox"/>				Borehole Diameter (in.): 2			
Type of Sampling Device: SS <input type="checkbox"/> UT <input type="checkbox"/> Macro/DT X Rx Core <input type="checkbox"/>				Type of Casing: HSA <input type="checkbox"/> Casing <input type="checkbox"/> Macro <input type="checkbox"/> Dual Tube <input type="checkbox"/>			
Depth (feet)	Sample ID (Recovery)	Stratum Change	SOIL DESCRIPTION	USCS Symbol	PID Screening (ppm)		
0		0.5	Asphalt				
	S1		Black/Brown, coarse SAND with small gravel, little medium to fine sand, fragments and particles of brick, dry.	SW	0.0		
	(18/48)						
			Sample SP - 41 (1 - 1.5) collected on 10/29/2012 at 13:15				
4							
4		4.5					
	S2		Gray/Brown, large GRAVEL with clay, little small gravel and medium sand, moist.	GC	0.0		
	(22/48)						
8		8					
8			Gray/Brown, CLAY, little small gravel, moist.	CL	0.0		
	S3						
	(40/48)		Sample SP - 41 (8 - 9) collected on 10/29/2012 at 13:20				
		11					
			Red Brown, large GRAVEL, little fines, weathered bedrock, dry.	GP	0.0		
12		12					
12			Red Brown/Light Brown, large GRAVEL, little fines, weathered bedrock, dry.	GP	0.0		
	S4						
	(34/48)						
16							
16	S5		Red Brown/Light Brown, large GRAVEL, little fines, weathered bedrock, dry.	GP	0.0		
16.6	(38/48)		Sample SP - 41 (19 - 19.5) collected on 10/29/2012 at 11:40				
20							
20	S6						
	(19/31)		Red Brown/Light Brown, large GRAVEL, little fines, weathered bedrock, wet at 21.5ft	GP	0.0		
22.7							
			Geoprobe Refusal at 22.7 ft bgs				
Depth to Water _____ (ft) Date & Time _____				Comments:		Boring No. SP - 41	
Depth to Water _____ (ft) Date & Time _____							