2013 ANNUAL REPORT

VANCHLOR Inc.
LOCKPORT, NEW YORK

Date : March 31, 2014

Chris Banch - EHSQ Manager, VanDeMark Chemical Inc
(Technical Contact for VanChlor Inc)

2013 ANNUAL REPORT
FOR
VANCHLOR LANDFILL

I. BACKGROUND

VANCHLOR (successor of VanDeMark) Landfill is located between Mill Street and Eighteen Mile Creek in Lockport, New York. The landfill consists of a 2.5 acre plateau located on a bluff approximately 80 feet above Eighteen Mile Creek.

The landfill was closed during the summer of 1988 in accordance with the NYSDEC-approved closure plan. Closure was designed to minimize the potential for hazardous constituents to be leached from the wastes and released to the groundwater. Van De Mark is now required to monitor the effectiveness of the final cover system, inspect and maintain the integrity of the final cover, and continue to conduct groundwater monitoring for a minimum of 30 years from the date of closure.

Groundwater monitoring is performed on a semiannual basis in accordance with Module IV of VDM's RCRA permit. The groundwater monitoring program has been designed to assess groundwater quality impacts at the landfill site. The groundwater monitoring program consists of sample collection and analysis of groundwater from monitoring wells VDM-9, VDM-10, VDM-11, VDM-14 and D-55 (background) for volatile organic compounds and select inorganic parameters. Samples are also collected from Eighteen Mile Creek just downstream of the site. Groundwater and surface water from Eighteen Mile Creek is analyzed for volatile organic compounds, metals and pH. In addition, water level measurements are taken during each sampling event at all wells prior to purging. The groundwater quality for each analytical parameter at each well location is compared to background water quality data for down gradient monitoring wells having compounds with concentrations exceeding groundwater protection standards. A statistical method is used to evaluate long-term changes in groundwater quality by plotting the life of the well trend for wells for each the compounds in the groundwater protection standards.

II. DATA PRESENTATION

Analytical data for quarterly sampling events prior to 1996 and semiannually since the first event of 1997 is summarized on computerized spreadsheets in Attachment A. The analytical laboratory data report for the October 2013 monitoring event is provided as Attachment B along with water level data, well construction data, and field parameters.

III. RESULTS

Analytical results of the sampling are provided for wells VDM9, -10, -11, and -14 (see Attachment B). The trend analysis results are summarized in Table 1. The trend is presented as increasing, decreasing, or neutral trend based on the latest four years of data.

The data generated at IsleChem trended well with previously collected data.

- Well VDM-9 was not performing as required; it had less water than is generally acceptable, and with excessive sediment. The bailer kept getting hung up in piping during sampling. This may indicate a clasping pipe. The well is slated to be replaced in spring 2014 as a result. Results captured for the well are not trended this sampling..
- Well VDM-10 has all parameters either neutral or decreasing. Most parameters have been testing at, or very near the methodology detection limit since 1991. All parameters below the exceedance values.
- Well VDM-11 has all parameters either neutral or decreasing. All parameters below the exceedance values.
- Well VDM-14 historically has been the highest of the wells monitored. However, close study of the data demonstrates recent trends, (last 8 - 12 samplings) are generally neutral relative to the last 6 years of data. Results for trans-1,2-Dichloroethene, Methylene Chloride, Vinyl Chloride, Toluene, Copper and Chromium are below the method detection limits.

Analytical results for 18-Mile Creek indicate that there has been no increase in concentrations of any parameters at 18 mile creek. (Refer to analytical laboratory data)

TABLE 1

VANCHLOR (successor of VanDeMark Group)
POST-CLOSURE MONITORING MOVING AVERAGE TREND TEST

Parameter	FOUR-YEAR TREND ANALYSIS(1)			
	Well VDM-9	**Well VDM-10**	**Well VDM-11**	**Well VDM-14**
Chloroform	Decreasing	Decreasing	Neutral(4)	Decreasing
1,2-Dichloroethane	Decreasing	Neutral(4)	Neutral(4)	Neutral(3)
Trans-1,2-Dichloroethene	Neutral(4)	Neutral(4)	Neutral(4)	Neutral(2,4)
Methylene Chloride	Neutral(4)	Neutral(4)	Neutral	Neutral(3)
1,1,2,2-Tetrachloroethane	Decreasing	Neutral(4)	Neutral(4)	Neutral
Tetrachloroethene	Decreasing	Neutral(4)	Neutral	Neutral(2)
Trichloroethene	Decreasing	Neutral(4)	Neutral(4)	Neutral (2)
Vinyl Chloride	Neutral(4)	Neutral(4)	Neutral(4)	Neutral(3)
Toluene	Neutral(4)	Neutral(4)	Neutral(4)	Neutral(3)
Chromium	Neutral	Neutral	Decreasing	Decreasing
Copper	Neutral	Decreasing	Neutral	Neutral
Zinc	Neutral	Neutral	Neutral	Neutral

Notes:

(1) Increasing - significant increasing trend identified on the plot for that parameter. Decreasing - significant decreasing trend identified on the plot for that parameter. Neutral - no significant increasing or decreasing trend identified on the plot for that parameter.

(2) The most recent semi-annual monitoring data is greater than the NYSDEC Exceedance Value for that parameter.

(3) *Not detected, detection limit elevated above NYSDEC Exceedance Value*

(4) *Latest 3 – 5 years (or more) have been non-detect for parameter.*

ATTACHMENT A
POST-CLOSSURE MONITORING
SUMMARY OF MOVING TREND ANALYSIS CHECKLIST

Parameter	Monitoring Location									
	Upgradient		Downgradient							
	D-55		VDM-9		VDM-10		VDM-11		VDM-14	
	table	chart	table	chart	table	chart	table	chart	table	chart
Chloroform	(1)	*NA*	x	x	x	x	x	x	x	x
1,2-Dichloroethane	(1)	*NA*	x	x	x	x	x	x	x	x
trans-1.2-Dichloroethene	(1)	*NA*	x	x	x	x	x	x	x	x
Methylene Chloride	(1)	*NA*	x	x	x	x	x	x	x	x
1,1,2,2-Tetrachloroethane	(1)	*NA*	x	x	x	x	x	x	x	x
Tetrachloroethene	(1)	*NA*	x	x	x	x	x	x	x	x
Trichloroethene	(1)	*NA*	x	x	x	x	x	x	x	x
Vinyl Chloride	(1)	*NA*	x	x	x	x	x	x	x	x
Toluene	(1)	*NA*	x	x	x	x	x	x	x	x
Chromium	(1)	*NA*	x	x	x	x	x	x	x	x
Copper	(1)	*NA*	x	x	x	x	x	x	x	x
Zinc	(1)	*NA*	x	x	x	x	x	x	x	x

Notes:

(1) Analytical data submitted.

NA Not applicable.

ANALYTICAL DATA

IsleChem™ LLC
Grand Island, NY

2801 Long Road
Grand Island, NY 14072
(716) 773-8401
(800) 699-8606
(716) 773-8517 (fax)
www.islechem.com

Analysis Report

Client	VandeMark Chemical, Inc. One North Transit Road Lockport, NY 14094-2399	Project	Water Samples For Analysis Semi-Annual Groundwater Monitoring
Report Date	10/28/2013	Contact	Chris Banach
Status	Final		
ID	**NY310116.0.36772**		

Batch Date	10/11/2013
Time	13:45
Description	--
Received	10/11/2013 15:00
Batch Contact	Chris Banach

Authorized Signature

Martin Ruszaj, Director of Chemical Testing

The following result table is for 8 samples received by IsleChem LLC on 10/11/2013 sampled by Daniel Janish on 10/11/2013 and submitted by Daniel Janish

Also enclosed are the Chain of Custody and Sample Receipt check list for this project.

Narrative:
Analyses were performed within the required holding times unless otherwise noted below. All quality control results were within acceptable limits unless specifically noted in the report. Quality control analyses were performed on the samples in this report or samples of similar matrix that were analyzed in the analytical batch on the dates indicated in the report.

Notes:

Sample ID Location Client VandeMark Chemical, Inc.

Method / Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date
116-1011-1	VDM-10 - Ground Water Sampled 10/11/2013					
Inorganics						
EPA 300.0 Rev 2.1						
Field Grab						
Chloride	8800	mg/L	D	DJD	262367	2013-10-17
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.2	mg/L	D	RVF	262366	2013-10-24
Copper, Total	3.18	mg/L	D	RVF	262366	2013-10-24
Iron, Total	123	mg/L	D	RVF	262366	2013-10-24
Zinc, Total	6.96	mg/L	D	RVF	262366	2013-10-24
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2.0	ug/L		RRS	262364-262365	2013-10-15
Methylene chloride	< 2.0	ug/L		RRS	262364-262365	2013-10-15
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	262364-262365	2013-10-15
Chloroform	4.5	ug/L		RRS	262364-262365	2013-10-15
1,2-Dichloroethane	< 2.0	ug/L		RRS	262364-262365	2013-10-15
Trichloroethene	< 2.0	ug/L		RRS	262364-262365	2013-10-15
Toluene	< 2.0	ug/L		RRS	262364-262365	2013-10-15
Tetrachloroethene	< 2.0	ug/L	C7	RRS	262364-262365	2013-10-15
1,1,2,2-Tetrachloroethane	< 2.0	ug/L		RRS	262364-262365	2013-10-15
116-1011-2	VDM-11 - Ground Water Sampled 10/11/2013					
Inorganics						
EPA 300.0 Rev 2.1						
Field Grab						
Chloride	1300	mg/L	D	DJD	262371	2013-10-17
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.1	mg/L	D	RVF	262370	2013-10-24
Copper, Total	2.97	mg/L	D	RVF	262370	2013-10-24
Iron, Total	12.4	mg/L	D	RVF	262370	2013-10-24
Zinc, Total	0.78	mg/L	D	RVF	262370	2013-10-24
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2.0	ug/L		RRS	262368-262369	2013-10-16
Methylene chloride	< 2.0	ug/L		RRS	262368-262369	2013-10-16
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	262368-262369	2013-10-16
Chloroform	4.3	ug/L		RRS	262368-262369	2013-10-16
1,2-Dichloroethane	< 2.0	ug/L		RRS	262368-262369	2013-10-16
Trichloroethene	< 2.0	ug/L		RRS	262368-262369	2013-10-16
Toluene	< 2.0	ug/L		RRS	262368-262369	2013-10-16
Tetrachloroethene	8.6	ug/L	C7	RRS	262368-262369	2013-10-16
1,1,2,2-Tetrachloroethane	< 2.0	ug/L		RRS	262368-262369	2013-10-16

Sample ID Location Client VandeMark Chemical, Inc.

Method / Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date
116-1011-3	VDM-14 - Ground Water Sampled 10/11/2013					
Inorganics						
EPA 300.0 Rev 2.1						
Field Grab						
Chloride	5800	mg/L	D	DJD	262375	2013-10-17
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.2	mg/L	D	RVF	262374	2013-10-24
Copper, Total	< 0.2	mg/L	D	RVF	262374	2013-10-24
Iron, Total	540	mg/L	D	RVF	262374	2013-10-24
Zinc, Total	0.86	mg/L	D	RVF	262374	2013-10-24
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	27.4	ug/L		RRS	262372-262373	2013-10-15
Methylene chloride	6.4	ug/L		RRS	262372-262373	2013-10-15
trans-1,2-Dichloroethene	20.0	ug/L		RRS	262372-262373	2013-10-15
Chloroform	58.6	ug/L		RRS	262372-262373	2013-10-15
1,2-Dichloroethane	8.7	ug/L		RRS	262372-262373	2013-10-15
Trichloroethene	66.7	ug/L		RRS	262372-262373	2013-10-15
Toluene	< 2.0	ug/L		RRS	262372-262373	2013-10-15
Tetrachloroethene	484	ug/L	C7,D1,S5	RRS	262372-262373	2013-10-15
1,1,2,2-Tetrachloroethane	88.7	ug/L	S5	RRS	262372-262373	2013-10-15
116-1011-4	Eighteen Mile Creek - Ground Water Sampled 10/11/2013					
Inorganics						
EPA 300.0 Rev 2.1						
Field Grab						
Chloride	47.6	mg/L	D	DJD	262379	2013-10-17
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.01	mg/L		RVF	262378	2013-10-24
Copper, Total	0.016	mg/L		RVF	262378	2013-10-24
Iron, Total	1.17	mg/L		RVF	262378	2013-10-24
Zinc, Total	0.024	mg/L		RVF	262378	2013-10-24
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2.0	ug/L		RRS	262376-262377	2013-10-15
Methylene chloride	< 2.0	ug/L		RRS	262376-262377	2013-10-15
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	262376-262377	2013-10-15
Chloroform	< 2.0	ug/L		RRS	262376-262377	2013-10-15
1,2-Dichloroethane	< 2.0	ug/L		RRS	262376-262377	2013-10-15
Trichloroethene	< 2.0	ug/L		RRS	262376-262377	2013-10-15
Toluene	< 2.0	ug/L		RRS	262376-262377	2013-10-15
Tetrachloroethene	< 2.0	ug/L	C7,S1	RRS	262376-262377	2013-10-15
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	S1	RRS	262376-262377	2013-10-15

Sample ID Location Client VandeMark Chemical, Inc.

Method / Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date
116-1011-5	D-55 - Ground Water Sampled 10/11/2013					
Inorganics						
EPA 300.0 Rev 2.1						
Field Grab						
Chloride	21.7	mg/L	D	DJD	262383	2013-10-17
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	0.015	mg/L		RVF	262382	2013-10-24
Copper, Total	0.024	mg/L		RVF	262382	2013-10-24
Iron, Total	2.31	mg/L		RVF	262382	2013-10-24
Zinc, Total	0.077	mg/L		RVF	262382	2013-10-24
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2.0	ug/L		RRS	262380-262381	2013-10-15
Methylene chloride	< 2.0	ug/L		RRS	262380-262381	2013-10-15
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	262380-262381	2013-10-15
Chloroform	< 2.0	ug/L		RRS	262380-262381	2013-10-15
1,2-Dichloroethane	< 2.0	ug/L		RRS	262380-262381	2013-10-15
Trichloroethene	< 2.0	ug/L		RRS	262380-262381	2013-10-15
Toluene	< 2.0	ug/L		RRS	262380-262381	2013-10-15
Tetrachloroethene	< 2.0	ug/L	C7,S1	RRS	262380-262381	2013-10-15
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	S1	RRS	262380-262381	2013-10-15
116-1011-6	VDM-9 - Ground Water Sampled 10/11/2013					
Inorganics						
EPA 300.0 Rev 2.1						
Field Grab						
Chloride	2200	mg/L	D	DJD	262387	2013-10-17
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	0.016	mg/L		RVF	262386	2013-10-24
Copper, Total	0.075	mg/L		RVF	262386	2013-10-24
Iron, Total	12.1	mg/L		RVF	262386	2013-10-24
Zinc, Total	0.090	mg/L		RVF	262386	2013-10-24
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2.0	ug/L		RRS	262384-262385	2013-10-15
Methylene chloride	< 2.0	ug/L		RRS	262384-262385	2013-10-15
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	262384-262385	2013-10-15
Chloroform	15.7	ug/L		RRS	262384-262385	2013-10-15
1,2-Dichloroethane	< 2.0	ug/L		RRS	262384-262385	2013-10-15
Trichloroethene	30.1	ug/L		RRS	262384-262385	2013-10-15
Toluene	< 2.0	ug/L		RRS	262384-262385	2013-10-15
Tetrachloroethene	52.1	ug/L	C7	RRS	262384-262385	2013-10-15
1,1,2,2-Tetrachloroethane	10.3	ug/L		RRS	262384-262385	2013-10-15

Sample ID Location Client VandeMark Chemical, Inc.

Method / Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date
116-1011-7	Trip Blank - DI Water Sampled 10/11/2013					
Volatiles						
EPA 8260C						
Trip Blank						
Vinyl chloride	< 2.0	ug/L		RRS	262388	2013-10-15
Methylene chloride	< 2.0	ug/L		RRS	262388	2013-10-15
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	262388	2013-10-15
Chloroform	< 2.0	ug/L		RRS	262388	2013-10-15
1,2-Dichloroethane	< 2.0	ug/L	S3	RRS	262388	2013-10-15
Trichloroethene	< 2.0	ug/L	S3	RRS	262388	2013-10-15
Toluene	< 2.0	ug/L		RRS	262388	2013-10-15
Tetrachloroethene	< 2.0	ug/L		RRS	262388	2013-10-15
1,1,2,2-Tetrachloroethane	< 2.0	ug/L		RRS	262388	2013-10-15
116-1011-8	Field QA/QC Dup of VDM-14 - Ground Water Sampled 10/11/2013					
Inorganics						
EPA 300.0 Rev 2.1						
Field Grab						
Chloride	5500	mg/L	D	DJD	262392	2013-10-17
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.02	mg/L	D	RVF	262391	2013-10-24
Copper, Total	< 0.02	mg/L	D	RVF	262391	2013-10-24
Iron, Total	540	mg/L	D	RVF	262391	2013-10-24
Zinc, Total	0.88	mg/L	D	RVF	262391	2013-10-24
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	22.4	ug/L		RRS	262389-262390	2013-10-15
Methylene chloride	5.9	ug/L		RRS	262389-262390	2013-10-15
trans-1,2-Dichloroethene	17.6	ug/L		RRS	262389-262390	2013-10-15
Chloroform	53.4	ug/L		RRS	262389-262390	2013-10-15
1,2-Dichloroethane	7.8	ug/L		RRS	262389-262390	2013-10-15
Trichloroethene	59.9	ug/L		RRS	262389-262390	2013-10-15
Toluene	< 2.0	ug/L		RRS	262389-262390	2013-10-15
Tetrachloroethene	384	ug/L	C7,D1	RRS	262389-262390	2013-10-15
1,1,2,2-Tetrachloroethane	78.9	ug/L		RRS	262389-262390	2013-10-15

Data Qualifiers and Definitions:

C7 Initial Calibration Verification (ICV) recovery was below acceptable limits. Result is estimated.
D Sample initially diluted due to sample matrix.
D1 Sample diluted due to initial result outside of linear calibrated range of the instrument.
S1 Surrogate recovery was above acceptable limits. No analytes detected. No Negative impact on data.
S3 Surrogate recovery was below acceptable limits. Result is estimated.
S5 Surrogate recovery was above acceptable limits. Result is estimated.

Sample Results

Report ID NY310116.0.36772

Sample ID Location Client VandeMark Chemical, Inc.

Method Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

IsleChem LLC ™ Grand Island, NY

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

VandeMark Chemical, Inc.	Semi-Annual Groundwater Monitoring	4 Samples / 16 Bottles
Organization Name	Project Name	# of Samples / # of Bottles
One North Transit Road		Standard
Street Address	Client PO / Release #	Turnaround Time/ Date Results Needed
Lockport, NY 14094		NY. 310116, 0.36772
City, State, Zip	Date Sampled	IsleChem Project #
Chris Banach	For electronic report please provide e-mail address:	**Rush Work Performed at Priority Rate (see below)**
Contact Person	c.banach@vdmchemical.com	Approved by Client Yes No Initials_____
716-433-6764 / 716-433-2850	E-mail	Approved by Lab Yes No Initials_____
Phone# / Fax#		

Sample ID	Sample Location	Matrix	Comp	Grab	Volatiles - Method 624 (2172)	Metals - (2620)	Chloride (622)						Bottle Type / Preservative
262364 262365	VDM-10	GW		x	x			Field pH: 5.98					(2) - 40 ml Vials (HCl)
262366		GW		x		x		Field Temp: 12.8°C					250 ml Poly (HNO3)
262367		GW		x			x						250 ml Poly (None)
262368 262369	VDM-11	GW		x	x			Field pH: 6.26					(2) - 40 ml Vials (HCl)
262370		GW		x		x		Field Temp: 14.9°C					250 ml Poly (HNO3)
262371		GW		x			x						250 ml Poly (None)
262372 262373	VDM-14	GW		x	x			Field pH: 5.56					(2) - 40 ml Vials (HCl)
262374		GW		x		x		Field Temp: 16.7°C					250 ml Poly (HNO3)
262375		GW		x			x						250 ml Poly (None)
	VDM-12	GW		x	x			Field pH:					(2) - 40 ml Vials (HCl)
	DJ	GW		x		x		Field Temp:					250 ml Poly (HNO3)
	Dry	GW		x			x						250 ml Poly (None)

Comments: Final report to be e-mailed to Chris Banach (e-mail above), Brian Law (b.law@vdmchemical.com) and Angela Muir (a.muir@vdmchemical.com).

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride.

Metals - Cr, Cu, Fe, & Zn.

Sampled By:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
	10/10/13	1345						
Relinquished by:	Date	Time	Relinquished by:	Date	Time	Received by lab:	Date	Time
	10/11/13	1930					10/11/13	3:00

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 day.

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

IsleChem™ LLC Grand Island, NY

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

VandeMark Chemical, Inc.	Semi-Annual Groundwater Monitoring	4 Samples / 13 Bottles
Organization Name	Project Name	# of Samples / # of Bottles
One North Transit Road		Standard
Street Address	Client PO / Release #	Turnaround Time/ Date Results Needed
Lockport, NY 14094		NY.310116.0.36772
City, State, Zip	Date Sampled	IsleChem Project #
Chris Banach	For electronic report please provide e-mail address:	**Rush Work Performed at Priority Rate (see below)**
Contact Person	c.banach@vdmchemical.com	Approved by Client Yes No Initials_____
716-433-6764 / 716-433-2850	E-mail	Approved by Lab Yes No Initials_____
Phone# / Fax#		

Sample ID	Sample Location	Matrix	Comp	Grab	Volatiles - Method 624 (2172)	Metals - (2620)	Chloride (622)						Bottle Type / Preservative
262376 262377	Eighteen Mile Creek	GW		x	x			Field pH: 8.2					(2) - 40 ml Vials (HCl)
262378		GW		x		x		Field Temp: 15.2 °C					250 ml Poly (HNO3)
262379		GW		x			x						250 ml Poly (None)
262380 262381	D-55	GW		x	x			Field pH: 7.42					(2) - 40 ml Vials (HCl)
262382		GW		x		x		Field Temp: 12.2°C					250 ml Poly (HNO3)
262383		GW		x			x						250 ml Poly (None)
262384 262385	VDM-9	GW		x	x			Field pH: 6.22					(2) - 40 ml Vials (HCl)
262386		GW		x		x		Field Temp: 13.7°C					250 ml Poly (HNO3)
262387		GW		x			x						250 ml Poly (None)
262388	Trip Blank	GW		x	x								(1) - 40 ml Vial (HCl)

Comments: **Final report to be e-mailed to Chris Banach (e-mail above), Brian Law (b.law@vdmchemical.com) and Angela Muir (a.muir@vdmchemical.com).**

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride.

Metals - Cr, Cu, Fe, & Zn.

Sampled By:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
	10/11/13	1345						
Relinquished by:	Date	Time	Relinquished by:	Date	Time	Received by lab:	Date	Time
	10/11/13	1430					10/11/13	3:00

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 day.

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

IsleChem™ LLC Grand Island, NY

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

VandeMark Chemical, Inc.	Semi-Annual Groundwater Monitoring	1 Sample / 4 Bottles
Organization Name	Project Name	# of Samples / # of Bottles
One North Transit Road		Standard
Street Address	Client PO / Release #	Turnaround Time/ Date Results Needed
Lockport, NY 14094		N.Y. 310116.0.36772
City, State, Zip	Date Sampled	IsleChem Project #
Chris Banach	For electronic report please provide e-mail address:	**Rush Work Performed at Priority Rate (see below)**
Contact Person	c.banach@vdmchemical.com	Approved by Client Yes No Initials_____
716-433-6764 / 716-433-2850	E-mail	Approved by Lab Yes No Initials_____
Phone# / Fax#		

Sample ID	Sample Location	Matrix	Comp	Grab	Volatiles - Method 624 (2172)	Metals - (2620)	Chloride (622)						Bottle Type / Preservative
262389 262390	Field QA/QC Dup of VDM 14	GW		x	x				Field pH: 5.56				(2) - 40 ml Vials (HCl)
262391		GW		x		x			Field Temp: 17°C				250 ml Poly (HNO3)
262392		GW		x			x						250 ml Poly (None)

Comments: Final report to be e-mailed to Chris Banach (e-mail above), Brian Law (b.law@vdmchemical.com) and Angela Muir (a.muir@vdmchemical.com).

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride.

Metals - Cr, Cu, Fe, & Zn.

Sampled By:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
	10/11/13	1345						
Relinquished by:	Date	Time	Relinquished by:	Date	Time	Received by lab:	Date	Time
	10/11/13	1430					10/11/13	3:00

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 day.

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

Client Name: VandeMark

IsleChem, LLC Job Number: NY.310116

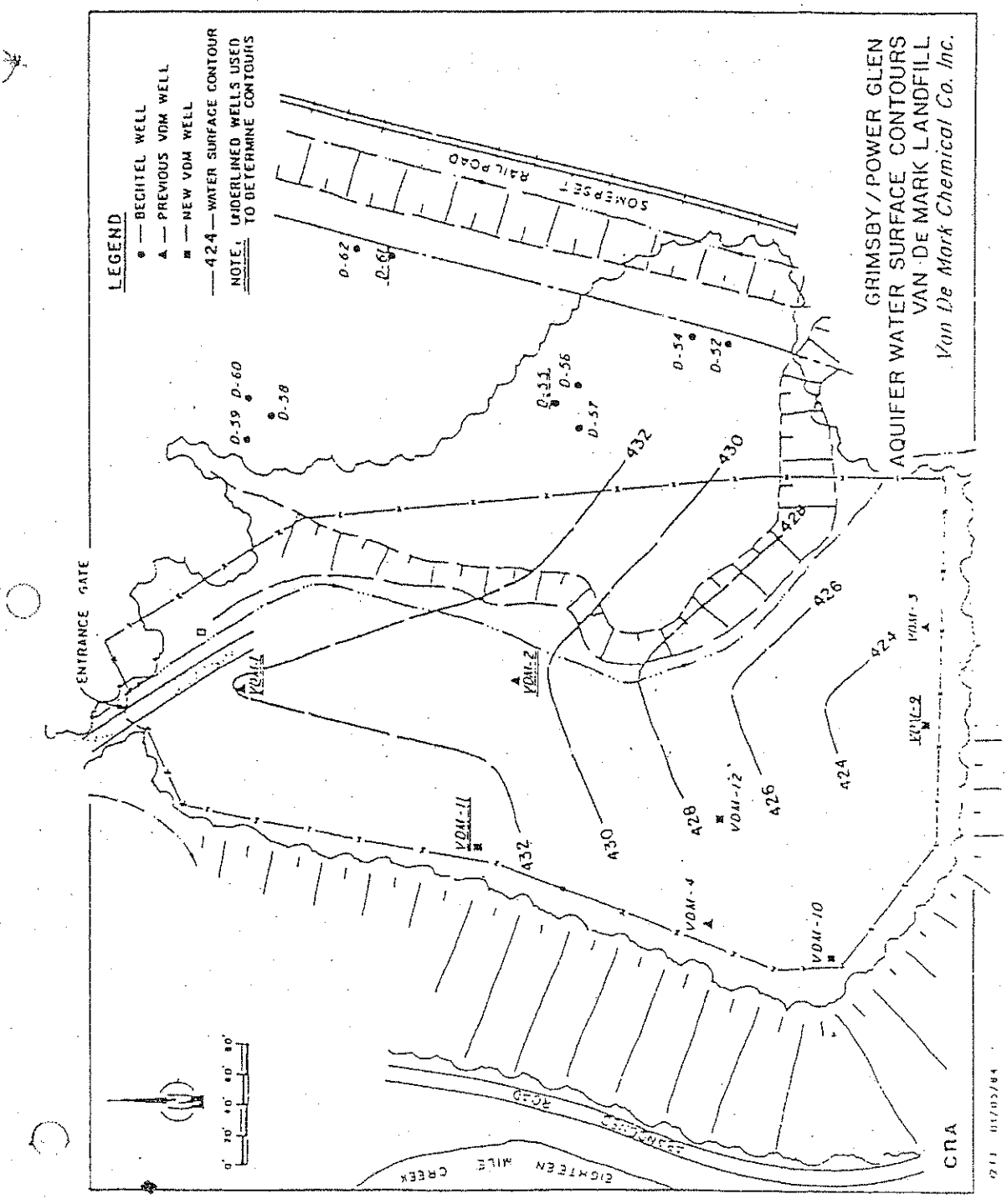
Sample(s) received by: _____ Date: 10/11/13 Time: 3:00

Is the chain of custody identified clearly with complete documentation including:

Sample location/Identification	YES	NO	N/A	Corrected
Sample date	YES	NO	N/A	Corrected
Sample time	YES	NO	N/A	Corrected
Client name	YES	NO	N/A	Corrected
Preservation type	YES	NO	N/A	Corrected
Required analysis is listed on each bottle	YES	NO	N/A	Corrected
Are the sample labels clear and do they provide a unique identification of the sample linked to COC?	YES	NO	N/A	Corrected
Are the sample containers appropriate?	YES	NO	N/A	Corrected
Is the sample date within the required hold times?	YES	NO	N/A	Corrected
Is there adequate volume available for requested analysis?	YES	NO	N/A	Corrected
Did the customer list what sample analysis is required?	YES	NO	N/A	Corrected
Is a chain of custody included?	YES	NO	N/A	Corrected
Is the chain of custody complete?	YES	NO	N/A	Corrected
Are the sample(s) free of apparent damage?	YES	NO	N/A	Corrected
Temperature 12°C Has cooling begun?	YES	NO	N/A	-
Is temperature 6° C or less if sample(s) were held prior to delivery date?	YES	NO	N/A	-
Are samples appropriately preserved if necessary?	YES	NO	N/A	Corrected
VOA sample vials do not have headspace or visible "pea-sized" air bubbles > (1/4") in diameter.	YES	NO	N/A	Corrected
If necessary, lab management has been notified of any short hold or quick TAT samples.	YES	NO	N/A	-
If necessary, lab has been notified of any attached comments.	YES	NO	N/A	-

Comments/Actions: _____

WELL LOCATION MAP
Figure 1



Attachment II-B
Well Purging / Sampling Data

WELL D-55:

WELL PURGING DATA: DATE: 10/11/13
START TIME: 830 FINISH TIME: 840
A: MP ELEVATION 469.45 FEET
B: DEPTH TO WATER: 336. FEET
C: DEPTH OF WELL INSTALLED: 422.40
D: STATIC WATER LEVEL: C - D = 123. FEET
E: WELL VOLUME: E * 0.1636 = 2.01 GALLONS
F: DEPTH OF WELL AS MEASURED: 48.5 FEET

WELL SAMPLING DATA: 6.0 s.u.'s (4.00) DATE: 10/11/13

START TIME: 1201 FINISH TIME: 1213
A: MP ELEVATION 469.45 FEET
B: DEPTH TO WATER: 37.1 FEET
C: DEPTH OF WELL INSTALLED: 422.40
D: STATIC WATER LEVEL: C - D = 11.2 FEET
E: WELL VOLUME: E * 0.1636 = 1.832 GALLONS
F: DEPTH OF WELL AS MEASURED: 48.3 FEET
G: pH OF SAMPLE: 7.42 pH
H: pH METER CALIBRATED? YES [X] NO [ ]
I: SAMPLES OBTAINED:
1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's
J: WEATHER CONDITIONS: Clear / Sunny
K: SAMPLER(S): Daniel James / Rob Moore
L: COMMENTS: Temp 12.2°C

Temp 12.2°C

Well Purging / Sampling Data

WELL VDM-9:

WELL PURGING DATA: DATE: 10/11/13

START TIME: 855 FINISH TIME: 900

A: MP ELEVATION 447.37 FEET

B: DEPTH TO WATER: 25.2 FEET

C: DEPTH OF WELL INSTALLED: 416.40

D: STATIC WATER LEVEL: C - D = 5.4 FEET

E: WELL VOLUME: E * 0.1636 = .88 GALLONS

F: DEPTH OF WELL AS MEASURED: 30.6 FEET

WELL SAMPLING DATA: 2.8 ~~2.5~~ DATE: 10/11/13

START TIME: 1228 FINISH TIME: 1237

A: MP ELEVATION 447.37 FEET

B: DEPTH TO WATER: 26.1 FEET

C: DEPTH OF WELL INSTALLED: 416.40

D: STATIC WATER LEVEL: C - D = 4.5 FEET

E: WELL VOLUME: E * 0.1636 = 0.7362 GALLONS

F: DEPTH OF WELL AS MEASURED: 30.6 FEET

G: pH OF SAMPLE: 6.22 pH

H: pH METER CALIBRATED? YES [✓] NO [ ]

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: Clear/Sunny

K: SAMPLER(S): Daniel Jansh/Rob Moore

L: COMMENTS: Temp 13.7 °C

Temp 13.7

Well Purging / Sampling Data

WELL VDM-10

WELL PURGING DATA: DATE: 10/11/13

START TIME: 9.05 FINISH TIME: 920

A: MP ELEVATION 444.89 FEET

B: DEPTH TO WATER: 32.6 FEET

C: DEPTH OF WELL INSTALLED: 398.70

D: STATIC WATER LEVEL: C - D = 13.8 FEET

E: WELL VOLUME: E * 0.1636 = 2.26 GALLONS

F: DEPTH OF WELL AS MEASURED: 46.4 FEET

WELL SAMPLING DATA: 6.78 - (4.0) DATE: 10/11/13

START TIME: 1310 FINISH TIME: 1320

A: MP ELEVATION 444.89 FEET

B: DEPTH TO WATER: 43.3 FEET

C: DEPTH OF WELL INSTALLED: 398.70

D: STATIC WATER LEVEL: C - D = 3.1 FEET

E: WELL VOLUME: E * 0.1636 = 0.50716 GALLONS

F: DEPTH OF WELL AS MEASURED: 46.4 FEET

G: pH OF SAMPLE: 5.98 pH

H: pH METER CALIBRATED? YES [✓] NO [ ]

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: Clear / Sunny

K: SAMPLER(S): Daniel Jarvis / Rob Moore

L: COMMENTS: Temp 12.8°C

T= 12.8°C

Well Purging / Sampling Data

WELL VDM-11

WELL PURGING DATA: DATE: 10/11/13

START TIME: 940 FINISH TIME: 9:40

A:	MP ELEVATION 450.74 FEET		
B:	DEPTH TO WATER:	23.4	FEET
C:	DEPTH OF WELL INSTALLED: 427.70		
D:	STATIC WATER LEVEL: C - D =	3.6	FEET
E:	WELL VOLUME: E * 0.1636 =	.58	GALLONS
F:	DEPTH OF WELL AS MEASURED:	27.	FEET

1.77 ÷ (5)

WELL SAMPLING DATA: DATE: 10/11/13

START TIME: 1329 FINISH TIME: 1333

A:	MP ELEVATION 450.74 FEET		
B:	DEPTH TO WATER:	20.9	FEET
C:	DEPTH OF WELL INSTALLED: 427.70		
D:	STATIC WATER LEVEL: C - D =	6.1	FEET
E:	WELL VOLUME: E * 0.1636 =	.99796	GALLONS
F:	DEPTH OF WELL AS MEASURED:	27	FEET
G:	pH OF SAMPLE:	6.26	pH
H:	pH METER CALIBRATED? YES [✓]	NO [ ]	
I:	SAMPLES OBTAINED:		

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: Clear / Sunny

K: SAMPLER(S): Daniel Jansky / Rob Moore

L: COMMENTS: Temp 14.9

Well Purging / Sampling Data

WELL VDM-12

WELL PURGING DATA: DATE:_____

START TIME:_____ FINISH TIME:_____

A: MP ELEVATION 451.52 FEET

B: DEPTH TO WATER: _____ FEET

C: DEPTH OF WELL INSTALLED: 436.10

D: STATIC WATER LEVEL: C - D = _____ FEET

E: WELL VOLUME: E * 0.1636 = _____ GALLONS

F: DEPTH OF WELL AS MEASURED: _____ FEET

WELL SAMPLING DATA: DATE:_____

START TIME:_____ FINISH TIME:_____

A: MP ELEVATION 451.52 FEET

B: DEPTH TO WATER: _____ FEET

C: DEPTH OF WELL INSTALLED: 436.10

D: STATIC WATER LEVEL: C - D = _____ FEET

E: WELL VOLUME: E * 0.1636 = _____ GALLONS

F: DEPTH OF WELL AS MEASURED: _____ FEET

G: pH OF SAMPLE: _____ pH

H: pH METER CALIBRATED? YES [ ] N[ ] [ ]

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-14

WELL PURGING DATA: DATE: 10/11/13

START TIME: 957 FINISH TIME: 1003

A:	MP ELEVATION 446.31 FEET		
B:	DEPTH TO WATER:	9.2	FEET
C:	DEPTH OF WELL INSTALLED: 434.00		
D:	STATIC WATER LEVEL: C - D =	1.8	FEET
E:	WELL VOLUME: E * 0.1636 =	.29	GALLONS
F:	DEPTH OF WELL AS MEASURED:	11	FEET

.89

WELL SAMPLING DATA: DATE: 10/11/13

START TIME: 1243 FINISH TIME: 1306

A:	MP ELEVATION 446.31 FEET		
B:	DEPTH TO WATER:	6.2	FEET
C:	DEPTH OF WELL INSTALLED: 434.00		
D:	STATIC WATER LEVEL: C - D =	4.8	FEET
E:	WELL VOLUME: E * 0.1636 =	0.78528	GALLONS
F:	DEPTH OF WELL AS MEASURED:	11	FEET
G:	pH OF SAMPLE:	5.50	pH
H:	pH METER CALIBRATED? YES [ ]	NO [ ]	
I:	SAMPLES OBTAINED:		

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: clear / sunny

K: SAMPLER(S): Daniel Janish / Rob Moore

L: COMMENTS: Dup duplicate sample

Temp 16.7 °C

1300
1306

9
5.56 pH
17°

Attachment II-C

Groundwater Monitoring System Inspection Plan and Form

A. Inspections of the groundwater monitoring system shall be performed on a semi-annual basis to conform with the post-closure monitoring schedule. Personnel trained in groundwater sampling, collection and sample preservation techniques will be used. The inspection form located below or an equivalent form shall be used. The original inspection forms shall be maintained by the permittee in an inspection log book or file for the full term of the post-closure care period. Copies of the inspections shall be submitted with the semi-annual monitoring reports.

B. The well inspection will include visual inspection of the security cap and lock, condition of the surface grout, and the condition of the inner casing and cap. During well purging , the relative rate of recharge should be noted for comparison with the previous data to insure that the well screen is not plugged. Also during purging and sampling, the integrity of the well shall be inspected by measuring the total well depth and noting the presence of any obstructions such as casing bends, foreign objects or siltation. The measured well depth shall be compared to the "as built" well depth.

C. If it becomes apparent that a well is not capable of providing representative samples, the permittee shall respond in accordance with **Condition E.1** of this permit Module.

Landfill/Groundwater Monitoring System Inspection Form

1.	Is the integrity of the cover and ditch lining satisfactory?	(YES)	NO
1.1	Any sink holes or depressions — Small in SW 12	(YES)	NO
1.2	Significant erosion of the banks.	YES	(NO)
1.3	Any visible problems.	YES	(NO)
2.	Is the integrity of the vegetative cover satisfactory?	(YES)	NO
2.1	Is the grass healthy looking?	(YES)	NO
2.2	Are there any bare spots?	YES	(NO)
2.3	Is the grass less than 8" tall?	YES	(NO)
2.4	Are there trees or bushes growing in the cover? Side by #6	(YES)	NO
3.	Is drainage from the site satisfactory?	(YES)	NO
3.1	Is there any ponding or puddling?	YES	(NO)
4.	Is the fence surrounding the site secure?	(YES)	NO

4.1	Any holes or damage?	YES	(NO)
4.2	Signs in place every 50'?	(YES)	NO
4.3	Accessible entry to the site? pool to Landfill should be widens.	YES ?	NO
4.4	Property "Posted Signs" visible and in tact?	(YES)	NO
5.	Are all of the covers on the monitoring wells locked?	(YES)	NO
5.1	Caps on all of the risers? #55 missing	YES	(NO)
6.	Is there any iron staining in the drainage ditch?	YES	(NO)
7.	Are their any visible seeps in the cliff face?	YES	(NO)
8.	Are the wells in good condition? #9 bailer get stuck	(YES)	NO
8.1	Any damage to the outer casing?	YES	(NO)
8.2	Obstructions in the riser?	YES	(NO)
8.3	Excessive sediment buildup in any wells?	(YES)	NO

Name of inspector: _____

Signature: _____ Date: 10/11/12

Attachment II-D

Laboratory QA/QC Deliverables

COMPONENTS REQUIRED FOR RCRA ANALYTICAL DATA SUBMITTED TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

IsleChem LLC
Grand Island, NY

2801 Long Road
Grand Island, NY 14072
(716) 773-8401
(800) 699-8606
(716) 773-8517 (fax)
www.islechem.com

Analysis Report

Client	VandeMark Chemical, Inc. One North Transit Road Lockport, NY 14094-2399	Project	Water Samples For Analysis Semi-Annual OCPSF POTW
Report Date	6/3/2013	Contact	Chris Banach
Status	Final		
ID	**NY305172.0.34772**		
Batch Date	5/17/2013		
Time	13:15		
Description	--		
Received	5/17/2013 15:45		
Batch Contact	Chris Banach		

Authorized Signature

Richard V. Finn, Manager of Chemical Testing

The following result table is for 8 samples received by IsleChem LLC on 5/17/2013 sampled by Client on 5/17/2013 and submitted by Client

Also enclosed are the Chain of Custody and Sample Receipt check list for this project.

Narrative:
Analyses were performed within the required holding times unless otherwise noted below. All quality control results were within acceptable limits unless specifically noted in the report. Quality control analyses were performed on the samples in this report or samples of similar matrix that were analyzed in the analytical batch on the dates indicated in the report.

Notes:

Sample ID Location Client VandeMark Chemical, Inc.

Method / Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date
172-0517-1	VDM-10 - Ground Water Sampled 5/17/2013					
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.05	mg/L	D	RVF	251171	2013-05-23
Copper, Total	1.25	mg/L	D	RVF	251171	2013-05-23
Iron, Total	37.5	mg/L	D	RVF	251171	2013-05-23
Zinc, Total	2.65	mg/L	D	RVF	251171	2013-05-23
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2	ug/L		RS	251169-251170	2013-05-31
Methylene chloride	< 2	ug/L		RS	251169-251170	2013-05-31
trans-1,2-Dichloroethene	< 2	ug/L		RS	251169-251170	2013-05-31
Chloroform	3.5	ug/L		RS	251169-251170	2013-05-31
1,2-Dichloroethane	< 2	ug/L		RS	251169-251170	2013-05-31
Trichloroethene	< 2	ug/L		RS	251169-251170	2013-05-31
Toluene	2.1	ug/L		RS	251169-251170	2013-05-31
Tetrachloroethene	< 2	ug/L		RS	251169-251170	2013-05-31
1,1,2,2-Tetrachloroethane	< 2	ug/L		RS	251169-251170	2013-05-31
WetChem						
SM 18-21 4500-Cl- B (97)						
Field Grab						
Chloride	6900	mg/L	D2	ME	251172	2013-05-31
172-0517-2	VDM-11 - Ground Water Sampled 5/17/2013					
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.2	mg/L	D	RVF	251175	2013-05-24
Copper, Total	0.52	mg/L	D	RVF	251175	2013-05-24
Iron, Total	10.2	mg/L	D	RVF	251175	2013-05-24
Zinc, Total	0.050	mg/L	D	RVF	251175	2013-05-24
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2	ug/L		RS	251173-251174	2013-05-31
Methylene chloride	< 2	ug/L		RS	251173-251174	2013-05-31
trans-1,2-Dichloroethene	< 2	ug/L		RS	251173-251174	2013-05-31
Chloroform	< 2	ug/L		RS	251173-251174	2013-05-31
1,2-Dichloroethane	< 2	ug/L		RS	251173-251174	2013-05-31
Trichloroethene	< 2	ug/L		RS	251173-251174	2013-05-31
Toluene	< 2	ug/L		RS	251173-251174	2013-05-31
Tetrachloroethene	< 3.8	ug/L		RS	251173-251174	2013-05-31
1,1,2,2-Tetrachloroethane	< 2	ug/L		RS	251173-251174	2013-05-31

Sample ID Location Client VandeMark Chemical, Inc.

Method / Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date
172-0517-2 VDM-11 - Ground Water Sampled 5/17/2013						
WetChem						
SM 18-21 4500-Cl- B (97)						
Field Grab						
Chloride	1040	mg/L	D2	ME	251176	2013-05-31
172-0517-3 VDM-14 - Ground Water Sampled 5/17/2013						
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.4	mg/L	D	RVF	251179	1900-01-01
Copper, Total	< 0.4	mg/L	D	RVF	251179	1900-01-01
Iron, Total	370	mg/L	D1	RVF	251179	1900-01-01
Zinc, Total	0.88	mg/L	D	RVF	251179	1900-01-01
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	25.9	ug/L		RS	251177-251178	2013-05-31
Methylene chloride	4.6	ug/L		RS	251177-251178	2013-05-31
trans-1,2-Dichloroethene	17.2	ug/L		RS	251177-251178	2013-05-31
Chloroform	50.3	ug/L		RS	251177-251178	2013-05-31
1,2-Dichloroethane	8.1	ug/L		RS	251177-251178	2013-05-31
Trichloroethene	53.7	ug/L		RS	251177-251178	2013-05-31
Toluene	< 2	ug/L		RS	251177-251178	2013-05-31
Tetrachloroethene	162	ug/L	D1	RS	251177-251178	2013-05-31
1,1,2,2-Tetrachloroethane	101	ug/L	D1	RS	251177-251178	2013-05-31
WetChem						
SM 18-21 4500-Cl- B (97)						
Field Grab						
Chloride	4400	mg/L	D2	ME	251880	2013-05-31
172-0517-4 Eighteen Mile Creek - Ground Water Sampled 5/17/2013						
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.01	mg/L		RVF	251183	2013-05-23
Copper, Total	0.011	mg/L		RVF	251183	2013-05-23
Iron, Total	0.765	mg/L		RVF	251183	2013-05-23
Zinc, Total	0.016	mg/L		RVF	251183	2013-05-23
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2	ug/L		RS	251181-251182	2013-05-31
Methylene chloride	< 2	ug/L		RS	251181-251182	2013-05-31
trans-1,2-Dichloroethene	< 2	ug/L		RS	251181-251182	2013-05-31

Sample ID Location Client VandeMark Chemical, Inc.

Method / Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date
172-0517-4	Eighteen Mile Creek - Ground Water Sampled 5/17/2013					
Volatiles						
EPA 8260C						
Field Grab						
Chloroform	< 2	ug/L		RS	251181-251182	2013-05-31
1,2-Dichloroethane	< 2	ug/L		RS	251181-251182	2013-05-31
Trichloroethene	< 2	ug/L		RS	251181-251182	2013-05-31
Toluene	< 2	ug/L		RS	251181-251182	2013-05-31
Tetrachloroethene	< 2	ug/L		RS	251181-251182	2013-05-31
1,1,2,2-Tetrachloroethane	< 2	ug/L		RS	251181-251182	2013-05-31
WetChem						
SM 18-21 4500-Cl- B (97)						
Field Grab						
Chloride	67	mg/L	D2	ME	251184	2013-05-31
172-0517-5	D-55 - Ground Water Sampled 5/17/2013					
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.01	mg/L		RVF	251187	2013-05-23
Copper, Total	0.019	mg/L		RVF	251187	2013-05-23
Iron, Total	0.628	mg/L		RVF	251187	2013-05-23
Zinc, Total	0.036	mg/L		RVF	251187	2013-05-23
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2	ug/L		RS	251185-251186	2013-05-31
Methylene chloride	< 2	ug/L		RS	251185-251186	2013-05-31
trans-1,2-Dichloroethene	< 2	ug/L		RS	251185-251186	2013-05-31
Chloroform	< 2	ug/L		RS	251185-251186	2013-05-31
1,2-Dichloroethane	< 2	ug/L		RS	251185-251186	2013-05-31
Trichloroethene	< 2	ug/L		RS	251185-251186	2013-05-31
Toluene	< 2	ug/L		RS	251185-251186	2013-05-31
Tetrachloroethene	< 2	ug/L		RS	251185-251186	2013-05-31
1,1,2,2-Tetrachloroethane	< 2	ug/L		RS	251185-251186	2013-05-31
WetChem						
SM 18-21 4500-Cl- B (97)						
Field Grab						
Chloride	25	mg/L		ME	251188	2013-05-31
172-0517-6	VDM-9 - Ground Water Sampled 5/17/2013					
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	0.010	mg/L		RVF	251191	2013-05-23

Sample ID Location Client VandeMark Chemical, Inc.

Method / Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date
172-0517-6	VDM-9 - Ground Water Sampled 5/17/2013					
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Copper, Total	0.047	mg/L		RVF	251191	2013-05-23
Iron, Total	6.49	mg/L		RVF	251191	2013-05-23
Zinc, Total	0.116	mg/L		RVF	251191	2013-05-23
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	< 2	ug/L		RS	251189-251190	2013-05-31
Methylene chloride	< 2	ug/L		RS	251189-251190	2013-05-31
trans-1,2-Dichloroethene	< 2	ug/L		RS	251189-251190	2013-05-31
Chloroform	10.8	ug/L		RS	251189-251190	2013-05-31
1,2-Dichloroethane	< 2	ug/L		RS	251189-251190	2013-05-31
Trichloroethene	23.2	ug/L		RS	251189-251190	2013-05-31
Toluene	4.3	ug/L		RS	251189-251190	2013-05-31
Tetrachloroethene	26.8	ug/L		RS	251189-251190	2013-05-31
1,1,2,2-Tetrachloroethane	12.7	ug/L		RS	251189-251190	2013-05-31
WetChem						
SM 18-21 4500-Cl- B (97)						
Field Grab						
Chloride	900	mg/L	D2	ME	251192	2013-05-31
172-0517-7	Trip Blank - DI Water Sampled 5/17/2013					
Volatiles						
EPA 8260C						
Trip Blank						
Vinyl chloride	< 2	ug/L		RS	251193	2013-05-30
Methylene chloride	< 2	ug/L		RS	251193	2013-05-30
trans-1,2-Dichloroethene	< 2	ug/L		RS	251193	2013-05-30
Chloroform	< 2	ug/L		RS	251193	2013-05-30
1,2-Dichloroethane	< 2	ug/L		RS	251193	2013-05-30
Trichloroethene	< 2	ug/L		RS	251193	2013-05-30
Toluene	< 2	ug/L		RS	251193	2013-05-30
Tetrachloroethene	< 2	ug/L		RS	251193	2013-05-30
1,1,2,2-Tetrachloroethane	< 2	ug/L		RS	251193	2013-05-30
172-0517-8	Fild QA/QC Dup of - Ground Water Sampled 5/17/2013					
Metals						
EPA 200.7 Rev 4.4						
Field Grab						
Chromium, Total	< 0.4	mg/L	D	RVF	251196	2013-05-24
Copper, Total	< 0.4	mg/L	D	RVF	251196	2013-05-24
Iron, Total	400	mg/L	D1	RVF	251196	2013-05-24
Zinc, Total	1.00	mg/L	D	RVF	251196	2013-05-24

Sample Results

Report ID NY305172.0.34772

Sample ID Location Client VandeMark Chemical, Inc.

Method Analyte	Sample Results	Units	Data Qualifiers	Analyst	Vessel ID	Date
172-0517-8	Fild QA/QC Dup of - Ground Water Sampled 5/17/2013					
Volatiles						
EPA 8260C						
Field Grab						
Vinyl chloride	18.2	ug/L	D	RS	251194-251195	2013-05-31
Methylene chloride	< 2	ug/L	D	RS	251194-251195	2013-05-31
trans-1,2-Dichloroethene	10.3	ug/L	D	RS	251194-251195	2013-05-31
Chloroform	41.7	ug/L	D	RS	251194-251195	2013-05-31
1,2-Dichloroethane	6.3	ug/L	D	RS	251194-251195	2013-05-31
Trichloroethene	38.6	ug/L	D	RS	251194-251195	2013-05-31
Toluene	16.5	ug/L	D	RS	251194-251195	2013-05-31
Tetrachloroethene	147	ug/L	D	RS	251194-251195	2013-05-31
1,1,2,2-Tetrachloroethane	96.3	ug/L	D	RS	251194-251195	2013-05-31
WetChem						
SM 18-21 4500-Cl- B (97)						
Field Grab						
Chloride	4200	mg/L	D2	ME	251197	2013-05-31

Data Qualifiers and Definitions:

D Sample initially diluted due to sample matrix.
D1 Sample diluted due to initial result outside of linear calibrated range of the instrument.
D2 Sample initially diluted based on historical data.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

IsleChem LLC Grand Island, NY

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

VandeMark Chemical, Inc.	Semi-Annual OCPSF POTW	4 Samples / 16 Bottles
Organization Name	Project Name	# of Samples / # of Bottles
One North Trasit Road	Client PO / Release # 5/17/13	Standard
Street Address	Date Sampled	Turnaround Time/ Date Results Needed
Lockport, NY 14094	For electronic report please provide e-mail address:	N.Y. 305172. O. 34772
City, State, Zip	c.banach@vdmchemical.com	IsleChem Project #
Chris Banach	E-mail	Rush Work Performed at Priority Rate (see below)
Contact Person		Approved by Client Yes No Initials_____
716-433-6764 / 716-433-2850		Approved by Lab Yes No Initials_____
Phone# / Fax#		

Sample ID	Sample Location	Matrix	Comp	Grab	Volatiles - Method 624 (see comments below)	Metals - see comments below	Chloride						Bottle Type / Preservative
251169 251170	VDM-10	GW		x	x			Field pH:					(2) - 40 ml Vials (HCl)
251171		GW		x		x		Field Temp:					250 ml Poly (HNO3)
251172		GW		x			x						250 ml Poly (None)
251173 251174	VDM-11	GW		x	x			Field pH:					(2) - 40 ml Vials (HCl)
251175		GW		x		x		Field Temp:					250 ml Poly (HNO3)
251176		GW		x			x						250 ml Poly (None)
251177 251178	VDM-14	GW		x	x			Field pH:					(2) - 40 ml Vials (HCl)
251179		GW		x		x		Field Temp:					250 ml Poly (HNO3)
251180		GW		x			x						250 ml Poly (None)
	VDM-12	GW		x	x			Field pH:					(2) - 40 ml Vials (HCl)
NO Sample	~~GW~~ DRY			x		x		Field Temp:					250 ml Poly (HNO3)
		GW		x			x						250 ml Poly (None)

Comments: Final report to be e-mailed to Chris Banach (e-mail above), Brian Law (b.law@vdmchemical.com) and Angela Muir (a.muir@vdmchemical.com).

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride.

Metals - Cr, Cu, Fe, & Zn.

Sampled By:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
	5/17/13	1310						
Relinquished by:	Date	Time	Relinquished by:	Date	Time	Received by lab:	Date	Time
	5/17/13	1535					5/17/13	3:45

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 day.

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

IsleChem™ LLC Grand Island, NY

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

VandeMark Chemical, Inc.	Semi-Annual OCPSF POTW	4 Samples / 13 Bottles
Organization Name	Project Name	# of Samples / # of Bottles
One North Trasit Road		Standard
Street Address	Client PO / Release #	Turnaround Time/ Date Results Needed
Lockport, NY 14094		NY 305172 . O. 34772
City, State, Zip	Date Sampled	IsleChem Project #
Chris Banach	For electronic report please provide e-mail address:	Rush Work Performed at Priority Rate (see below)
Contact Person	c.banach@vdmchemical.com	Approved by Client Yes No Initials_____
716-433-6764 / 716-433-2850	E-mail	Approved by Lab Yes No Initials_____
Phone# / Fax#		

Sample ID	Sample Location	Matrix	Comp	Grab	Volatiles - Method 624 (see comments below)	Metals - see comments below	Chloride						Bottle Type / Preservative
251181 251182	Eighteen Mile Creek	GW		x	x			Field pH:					(2) - 40 ml Vials (HCl)
251183		GW		x		x		Field Temp:					250 ml Poly (HNO3)
251184		GW		x			x						250 ml Poly (None)
251185 251186	D-55	GW		x	x			Field pH:					(2) - 40 ml Vials (HCl)
251187		GW		x		x		Field Temp:					250 ml Poly (HNO3)
251188		GW		x			x						250 ml Poly (None)
251189 251190	VDM-9	GW		x	x			Field pH:					(2) - 40 ml Vials (HCl)
251191		GW		x		x		Field Temp:					250 ml Poly (HNO3)
251192		GW		x			x						250 ml Poly (None)
251193	Trip Blank	GW		x	x								(1) - 40 ml Vial (HCl)

Comments: Final report to be e-mailed to Chris Banach (e-mail above), Brian Law (b.law@vdmchemical.com) and Angela Muir (a.muir@vdmchemical.com).

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride.

Metals - Cr, Cu, Fe, & Zn.

Sampled By:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
	5/17/12	1710						
Relinquished by:	Date	Time	Relinquished by:	Date	Time	Received by lab:	Date	Time
	5/17/12	1730					5/18/12	3:45

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 day.

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

IsleChem LLC Grand Island, NY

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

VandeMark Chemical, Inc.	Semi-Annual OCPSF POTW	1 Sample / 4 Bottles
Organization Name	Project Name	# of Samples / # of Bottles
One North Trasit Road		Standard
Street Address	Client PO / Release # 5/17/13	Turnaround Time/ Date Results Needed N7. 305172 , 0.34772
Lockport, NY 14094	Date Sampled	IsleChem Project #
City, State, Zip		
Chris Banach	For electronic report please provide e-mail address: c.banach@vdmchemical.com	Rush Work Performed at Priority Rate (see below)
Contact Person		Approved by Client Yes No Initials_____
716-433-6764 / 716-433-2850		Approved by Lab Yes No Initials_____
Phone# / Fax#	E-mail	

Sample #	Sample Location	Matrix	Comp	Grab	Volatiles - Method 624 (see comments below)	Metals - see comments below	Chloride							Bottle Type / Preservative
251194 251195	Field QA/QC Dup of _____	GW		x	x				Field pH: _____					(2) - 40 ml Vials (HCl)
251196		GW		x		x			Field Temp: _____					250 ml Poly (HNO3)
251197		GW		x			x							250 ml Poly (None)

Comments: Final report to be e-mailed to Chris Banach (e-mail above), Brian Law (b.law@vdmchemical.com) and Angela Muir (a.muir@vdmchemical.com).

Volatiles - Chloroform, 1,2-Dichloromethane, trans-1,2-Dichloroethene, Methylene Chloride, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene, Toluene, & Vinyl Chloride.

Metals - Cr, Cu, Fe, & Zn.

Sampled By:	Date 5/17/13	Time 12:16	Received by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date 5/17/13	Time 1735	Relinquished by:	Date	Time	Received by lab:	Date 5/17/13	Time 3:45

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 day.

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

Client Name: Vande Mark

IsleChem, LLC Job Number: NF-305172

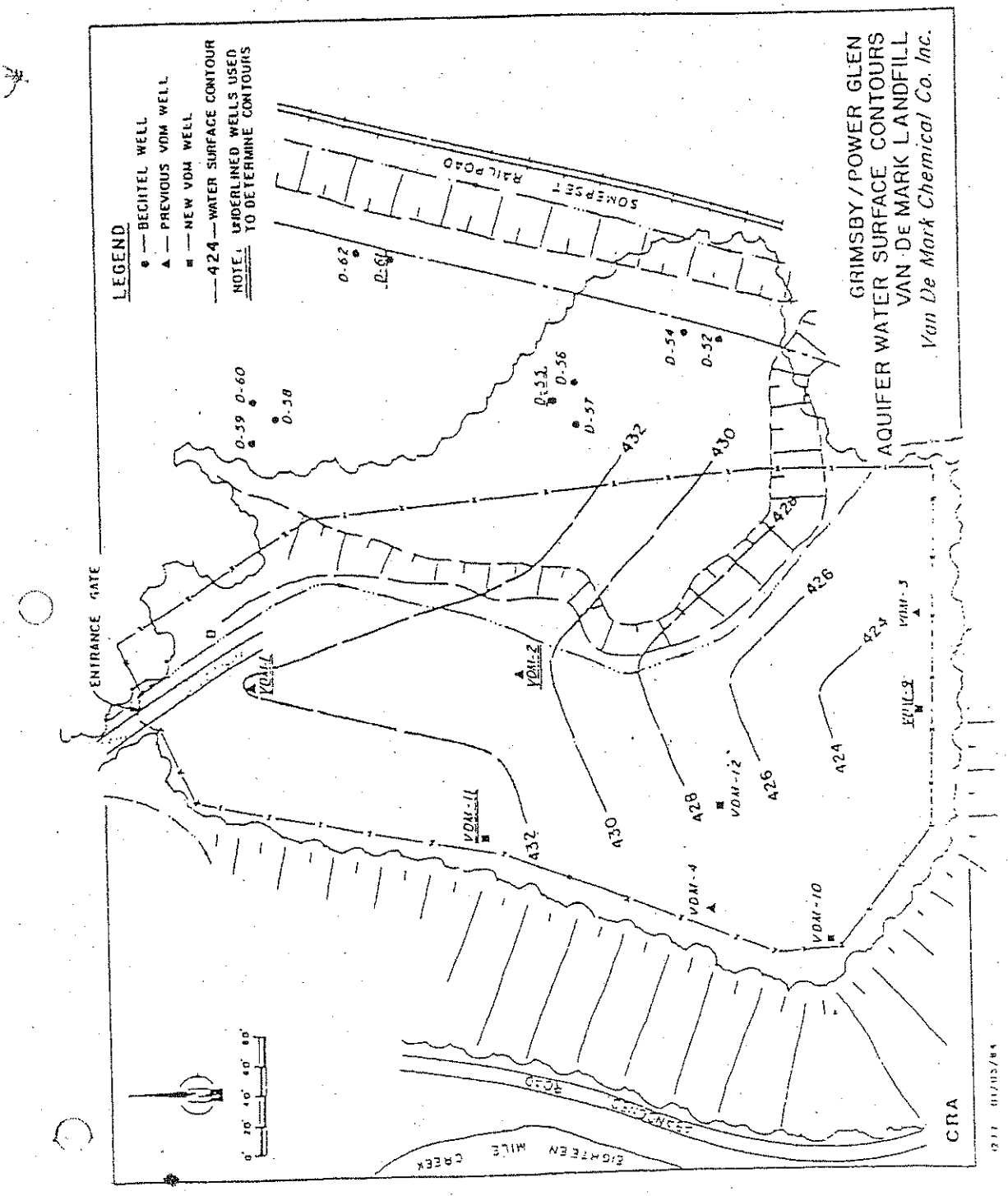
Sample(s) received by: _____ Date: 5/17/13 Time: 3:45

Is the chain of custody identified clearly with complete documentation including:

Sample location/Identification	YES	NO	N/A	Corrected
Sample date	YES	NO	N/A	Corrected
Sample time	YES	NO	N/A	Corrected
Client name	YES	NO	N/A	Corrected
Preservation type	YES	NO	N/A	Corrected
Required analysis is listed on each bottle	YES	NO	N/A	Corrected
Are the sample labels clear and do they provide a unique identification of the sample linked to COC?	YES	NO	N/A	Corrected
Are the sample containers appropriate?	YES	NO	N/A	Corrected
Is the sample date within the required hold times?	YES	NO	N/A	Corrected
Is there adequate volume available for requested analysis?	YES	NO	N/A	Corrected
Did the customer list what sample analysis is required?	YES	NO	N/A	Corrected
Is a chain of custody included?	YES	NO	N/A	Corrected
Is the chain of custody complete?	YES	NO	N/A	Corrected
Are the sample(s) free of apparent damage?	YES	NO	N/A	Corrected
Temperature 6°C Has cooling begun?	YES	NO	N/A	-
Is temperature 6° C or less if sample(s) were held prior to delivery date?	YES	NO	N/A	-
Are samples appropriately preserved if necessary?	YES	NO	N/A	Corrected
VOA sample vials do not have headspace or visible "pea-sized" air bubbles > (1/4") in diameter.	YES	NO	N/A	Corrected
If necessary, lab management has been notified of any short hold or quick TAT samples.	YES	NO	N/A	Corrected

Comments/Actions: _____

WELL LOCATION MAP
Figure 1



Attachment II-B
Well Purging / Sampling Data

WELL D-55:

WELL PURGING DATA: DATE: 5/17

START TIME: 840 FINISH TIME: 845

A: MP ELEVATION 469.45 FEET

B: DEPTH TO WATER: 36.1 FEET

C: DEPTH OF WELL INSTALLED: 422.40

D: STATIC WATER LEVEL: C - D = 10.7 FEET

E: WELL VOLUME: E * 0.1636 = 1.75 GALLONS (X3)

F: DEPTH OF WELL AS MEASURED: 47 FEET

5.25 = 4.0 pulled

WELL SAMPLING DATA: DATE:

START TIME: 1200 FINISH TIME: 1205

A: MP ELEVATION 469.45 FEET

B: DEPTH TO WATER: 38.2 FEET

C: DEPTH OF WELL INSTALLED: 422.40

D: STATIC WATER LEVEL: C - D = 8.8 FEET

E: WELL VOLUME: E * 0.1636 = 1.45 GALLONS

F: DEPTH OF WELL AS MEASURED: 47 FEET

G: pH OF SAMPLE: 7.09 pH 8 °C

H: pH METER CALIBRATED? YES [X] NO [ ]

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS:

K: SAMPLER(S): S Hand M Reagan

L: COMMENTS: No Cap on well

18 mk Creek 11:40 7.90 5°c

Well Purging / Sampling Data

WELL VDM-9:

WELL PURGING DATA: DATE: 5/17/03

START TIME: 905 FINISH TIME: 915

A: MP ELEVATION 447.37 FEET

B: DEPTH TO WATER: 23.2 FEET

C: DEPTH OF WELL INSTALLED: 416.40

D: STATIC WATER LEVEL: C - D = 6.8 FEET

E: WELL VOLUME: E * 0.1636 = 1.11 GALLONS

F: DEPTH OF WELL AS MEASURED: 30 FEET

5.3 20' pulled

WELL SAMPLING DATA: DATE:

START TIME: 1220 FINISH TIME: 1230

A: MP ELEVATION 447.37 FEET

B: DEPTH TO WATER: 26.2 FEET

C: DEPTH OF WELL INSTALLED: 416.40

D: STATIC WATER LEVEL: C - D = 3.8 FEET

E: WELL VOLUME: E * 0.1636 = .61 GALLONS

F: DEPTH OF WELL AS MEASURED: 30 FEET

G: pH OF SAMPLE: 7.46 pH Ku

H: pH METER CALIBRATED? YES [X] NO [ ]

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-10

WELL PURGING DATA: DATE: 5/17/13

START TIME: 945 FINISH TIME: 940

A: MP ELEVATION 444.89 FEET

B: DEPTH TO WATER: 32 FEET

C: DEPTH OF WELL INSTALLED: 398.70

D: STATIC WATER LEVEL: C - D = 14 FEET

E: WELL VOLUME: E * 0.1636 = 2.29 GALLONS

F: DEPTH OF WELL AS MEASURED: 46 FEET

dirty C.8 5.5 pulled

WELL SAMPLING DATA: DATE:

START TIME: 1235 FINISH TIME: 1240

A: MP ELEVATION 444.89 FEET

B: DEPTH TO WATER: 44.3 FEET

C: DEPTH OF WELL INSTALLED: 398.70

D: STATIC WATER LEVEL: C - D = 1.7 FEET

E: WELL VOLUME: E * 0.1636 = .27 GALLONS

F: DEPTH OF WELL AS MEASURED: 46 FEET

G: pH OF SAMPLE: 6.04 pH 122

H: pH METER CALIBRATED? YES [✓] NO [ ]

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

Dirty

J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-11

WELL PURGING DATA: DATE: 5/17/1

START TIME: 956 FINISH TIME: 1015

A:	MP ELEVATION 450.74 FEET		
B:	DEPTH TO WATER:	19.6	FEET
C:	DEPTH OF WELL INSTALLED: 427.70		
D:	STATIC WATER LEVEL: C - D =	2.4	FEET
E:	WELL VOLUME: E * 0.1636 =	.39	GALLONS
F:	DEPTH OF WELL AS MEASURED:	22	FEET

1.1 1.1

WELL SAMPLING DATA: DATE:

START TIME: 1245 FINISH TIME: 1250

A:	MP ELEVATION 450.74 FEET		
B:	DEPTH TO WATER:	21.1	FEET
C:	DEPTH OF WELL INSTALLED: 427.70		
D:	STATIC WATER LEVEL: C - D =	.9	FEET
E:	WELL VOLUME: E * 0.1636 =	.14	GALLONS
F:	DEPTH OF WELL AS MEASURED:	22	FEET
G:	pH OF SAMPLE:	6.06	pH 14°C
H:	pH METER CALIBRATED? YES [✓]	NO [ ]	
I:	SAMPLES OBTAINED:		

Dirty

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-12

WELL PURGING DATA: DC DATE:_____

START TIME:_____ FINISH TIME:_____

A: MP ELEVATION 451.52 FEET

B: DEPTH TO WATER: _____ FEET

C: DEPTH OF WELL INSTALLED: 436.10

D: STATIC WATER LEVEL: C - D = _____ FEET

E: WELL VOLUME: E * 0.1636 = _____ GALLONS

F: DEPTH OF WELL AS MEASURED: _____ FEET

WELL SAMPLING DATA: DATE:_____

START TIME:_____ FINISH TIME:_____

A: MP ELEVATION 451.52 FEET

B: DEPTH TO WATER: _____ FEET

C: DEPTH OF WELL INSTALLED: 436.10

D: STATIC WATER LEVEL: C - D = _____ FEET

E: WELL VOLUME: E * 0.1636 = _____ GALLONS

F: DEPTH OF WELL AS MEASURED: _____ FEET

G: pH OF SAMPLE: _____ pH

H: pH METER CALIBRATED? YES [ ] N[ ] [ ]

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: _____

Well Purging / Sampling Data

WELL VDM-14

WELL PURGING DATA: DATE: 5/17/11

START TIME: 1200 FINISH TIME: 1205

A: MP ELEVATION 446.31 FEET

B: DEPTH TO WATER: 9.13 FEET

C: DEPTH OF WELL INSTALLED: 434.00

D: STATIC WATER LEVEL: C - D = 2.3 FEET

E: WELL VOLUME: E * 0.1636 = .3 GALLONS

F: DEPTH OF WELL AS MEASURED: 11.6 FEET

Depth 1.12

WELL SAMPLING DATA: DATE:

START TIME: 1254 FINISH TIME:

A: MP ELEVATION 446.31 FEET

B: DEPTH TO WATER: 9.9 FEET

C: DEPTH OF WELL INSTALLED: 434.00

D: STATIC WATER LEVEL: C - D = 1.7 FEET

E: WELL VOLUME: E * 0.1636 = .27 GALLONS

F: DEPTH OF WELL AS MEASURED: 11.6 FEET

G: pH OF SAMPLE: 5.42 pH

H: pH METER CALIBRATED? YES [✓] NO [ ] 10°C Dilly

I: SAMPLES OBTAINED:

1 - TOTAL METALS, 1 - TOTAL CHLORIDES, 2 - VOA's

J: WEATHER CONDITIONS: _____

K: SAMPLER(S): _____

L: COMMENTS: _____

Attachment II-C

Groundwater Monitoring System Inspection Plan and Form

A. Inspections of the groundwater monitoring system shall be performed on a semi-annual basis to conform with the post-closure monitoring schedule. Personnel trained in groundwater sampling, collection and sample preservation techniques will be used. The inspection form located below or an equivalent form shall be used. The original inspection forms shall be maintained by the permittee in an inspection log book or file for the full term of the post-closure care period. Copies of the inspections shall be submitted with the semi-annual monitoring reports.

B. The well inspection will include visual inspection of the security cap and lock, condition of the surface grout, and the condition of the inner casing and cap. During well purging , the relative rate of recharge should be noted for comparison with the previous data to insure that the well screen is not plugged. Also during purging and sampling, the integrity of the well shall be inspected by measuring the total well depth and noting the presence of any obstructions such as casing bends, foreign objects or siltation. The measured well depth shall be compared to the "as built" well depth.

C. If it becomes apparent that a well is not capable of providing representative samples, the permittee shall respond in accordance with **Condition E.1** of this permit Module.

Landfill/Groundwater Monitoring System Inspection Form

1.	Is the integrity of the cover and ditch lining satisfactory?	(YES)	NO
1.1	Any sink holes or depressions	(YES)	NO
1.2	Significant erosion of the banks.	YES	(NO)
1.3	Any visible problems.	YES	(NO)
2.	Is the integrity of the vegetative cover satisfactory?	(YES)	NO
2.1	Is the grass healthy looking?	(YES)	NO
2.2	Are there any bare spots?	YES	(NO)
2.3	Is the grass less than 8" tall?	(YES)	NO
2.4	Are there trees or bushes growing in the cover?	YES	(NO)

trees growing thru Fence - Bushes Blocking the drive in

3.	Is drainage from the site satisfactory?	(YES)	NO
3.1	Is there any ponding or puddling?	YES	(NO)
4.	Is the fence surrounding the site secure?	(YES)	NO

4.1	Any holes or damage?	YES	(NO)
4.2	Signs in place every 50'?	(YES)	NO
4.3	Accessible entry to the site? – Driveway has trees	(YES)	NO
4.4	Property "Posted Signs" visible and in tact?	(YES)	NO
5.	Are all of the covers on the monitoring wells locked?	(YES)	NO
5.1	Caps on all of the risers? SS no cap	YES	(NO)
6.	Is there any iron staining in the drainage ditch?	YES	(NO)
7.	Are their any visible seeps in the cliff face?	YES	(NO)
8.	Are the wells in good condition?	(YES)	NO
8.1	Any damage to the outer casing?	YES	(NO)
8.2	Obstructions in the riser?	YES	(NO)
8.3	Excessive sediment buildup in any wells? 9/10/11	(YES)	NO

Name of inspector: Scott Hurd

Signature: _____ Date: 5/17/13

Attachment II-D

Laboratory QA/QC Deliverables

COMPONENTS REQUIRED FOR RCRA ANALYTICAL DATA SUBMITTED TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION