

2013 ANNUAL MONITORING / INSPECTION REPORT

SNPE- VDM Creek Bank Corrective Actions

VanDeMark Chemical Inc. – Lockport, New York

Order on Consent: R9-20080205-5

REPORT

Submitted To: SNPE, Inc. 103 Carnegie Center, Suite 300 Princeton, New Jersey 08540

> VanDeMark Chemical Inc. One North Transit Rd. Lockport, New York 14094

New York State Department of Environmental Conservation 270 Michigan Ave. Buffalo, New York 14203

Submitted By: Golder Associates Inc. 2430 N. Forest Road, Suite 100 Getzville, NY 14068 USA

Distribution:

2 copies –	New York State Department of Environmental Conservation

- 1 copy SNPE, Inc.
- 1 copy Golder Associates Inc.

February 2014

Project No. 093-89168

A world of capabilities delivered locally Golder



Table of Contents

1.0	IN	TRODUCTION2
2.0	Ql	JARTERLY MONITORING AND INSPECTIONS4
2.1		Passive DNAPL Collection Trench4
2	.1.1	May 2013 Inspection4
2	.1.2	July 2013 Inspection4
2	.1.3	September 2013 Inspection4
2.2		Creek Bank Area5
2	.2.1	May 2013 Inspection5
2	.2.2	July 2013 Inspection5
2	.2.3	September 2013 Inspection6
2.3		Collection Trench Overflow Filter Sump Structure
2	.3.1	May 2013 Inspection6
2	.3.2	July 2013 Inspection6
2	.3.3	September 2013 Inspection7
3.0	SE	EMI-ANNUAL GROUNDWATER MONITORING8
3.1		Introduction8
3.2		Creek Bank Piezometers8
3	.2.1	Piezometer Development8
3	.2.2	Piezometer Sampling & Analytical Results8
3.3		Plant Monitoring Well Sampling & Analytical Results9
3.4		Filter Sump Structure Sampling & Analytical Results10
4.0	M	AINTENANCE AND CLEAN-OUT ACTIVITIES12
4.1		Creek Bank Area
5.0	RE	EFERENCES

List of Tables

 Table 3-1
 Summary of Groundwater Sampling Analytical Results

List of Figures

Figure 1-1	Site Location Map
Figure 1-2	OMP Site Plan- VDM Plant and Creek Bank Area
Figure 3-1	Creek Bank Area Site Plan

Appendices

Appendix A	Operations and Monitoring Summary Inspection Forms
Appendix B	Inspection Photographs
Appendix C	Piezometer Development and Sample Collection Forms





1.0 INTRODUCTION

Golder Associates Inc. (Golder) under contract to SNPE Inc. (SNPE) and in close cooperation with VanDeMark Chemical Inc. (VDM), the Site owner, has prepared this annual monitoring and inspection summary report for 2013, in support of the Operations and Maintenance Plan (OMP) that was prepared for the VDM Lockport facility by Golder (Golder, April 2013). This summary report describes the activities that were undertaken during 2013 to maintain and monitor the effectiveness of the remedial system that was implemented at the VDM site along a portion of VDM's property adjacent to the north bank of Eighteen Mile Creek Bank (hereafter referred to as the "Creek Bank Area") and associated groundwater/DNAPL impacts at VDM's manufacturing facility in Lockport, New York. The VDM facility is located in the north central sector of the City of Lockport city limits, as shown on Figure 1-1.

The purpose of the constructed remedial system was twofold: create a barrier to restrict and contain the migration of dense non-aqueous phase liquid (DNAPL) consisting of coal tar residuals that have been exiting the fractured bedrock formation at, or near, the toe of the Creek Bank area slope; and promote the collection of the DNAPL in a defined permeable trench for subsequent mechanical removal, if required. This annual monitoring/inspection report documents the extent to which these objectives are being met based on the following primary activities that were conducted throughout the 2013 monitoring period:

- Quarterly visual inspections for presence of DNAPL in the passive upgradient permeable collection trench installed along the grout cutoff wall alignment;
- Quarterly visual inspections for presence of DNAPL along the Eighteen Mile Creek bank areas where coal tar residuals have previously been observed;
- Semi-annual groundwater sampling of the four piezometers installed upgradient and downgradient of the grout cutoff wall;
- Semi-annual sampling of the water discharge from the collection trench Filter Sump overflow chamber;
- Semi-annual groundwater sampling of two representative monitoring wells located within the VDM Plant at the top of the Niagara Escarpment;
- Visual inspection of the Filter Sump media (i.e., filter sand and activated carbon) and sump chamber;
- Visual inspection of the passive collection trench for the presence of DNAPL residuals; and,
- Visual inspection of the collection trench permeable stone media and DNAPL observation sumps.

Figure 1-2 shows the locations of the areas both within the active VDM facility and to the south along the Eighteen Mile Creek Bank Area (Creek Bank Area) that were monitored as part of this annual report.





The following sections present details on the frequency and methodologies employed for the inspections, monitoring and maintenance activities described above. The documentation and reporting associated with these activities are also described and provided.



2.0 QUARTERLY MONITORING AND INSPECTIONS

Due to the timing of the O & M Plan approval (May 2013) and coordination of final site restoration activities a first quarter spring inspection was not conducted. Therefore, in this initial year of inspection and monitoring only 3 of the 4 planned inspections were completed.

2.1 Passive DNAPL Collection Trench

Visual inspections were performed on the DNAPL collection trench by Golder personnel in May, July and September 2013. Based on the visual inspections performed by Golder personnel, the following observations were recorded and summarized on daily written inspection reports, included in this report as Appendix A. Photos taken during the inspections were also recorded and are included as Appendix B.

2.1.1 May 2013 Inspection

DNAPL accumulation was not observed during the May 2013 inspection period within the DNAPL observation sumps located within the DNAPL collection trench based on visual inspection and use of a wooden probe stick inserted to bottom of four, 4-inch diameter PVC DNAPL observation sumps (OS-1, OS-2, OS-3 and OS-4). Groundwater was encountered in OS-1 and OS-3, while OS-2 and OS-4 were dry. In addition, two (2) small test pits were hand dug into the collection stone along the lower Creek Bank Area trench alignment as follows:

- One test pit located approximately 14-ft. east of piezometer PZ-4 to a depth of 2.5-ft below ground surface (bgs); groundwater encountered at 2-ft bgs, no DNAPL observed based on absence of sheen on water surface; and,
- One test pit located approximately 11-ft. west of piezometer PZ-4 to a depth of 1.5-ft bgs; groundwater encountered at 10 to 12-inches bgs, no DNAPL observed based on absence of sheen on water surface.

2.1.2 July 2013 Inspection

DNAPL accumulation was not observed during the July 2013 inspection period within the DNAPL observation sumps located within the DNAPL collection trench based on visual inspection and use of a wooden probe stick inserted to bottom of four, 4-inch diameter PVC DNAPL observation sumps (OS-1, OS-2, OS-3 and OS-4). Groundwater was encountered in OS-1 and OS-3, while OS-2 and OS-4 were dry. In the absence of DNAPL in the observation sumps and at the surface of the trench, test pits were not dug into the collection stone during the July 2013 inspection period.

2.1.3 September 2013 Inspection

DNAPL accumulation was not observed during the September 2013 inspection period within the DNAPL observation sumps located within the DNAPL collection trench based on visual inspection and use of a wooden probe stick inserted to bottom of four, 4-inch diameter PVC DNAPL observation sumps (OS-1, OS-2, OS-3 and OS-4). Groundwater was encountered in OS-1 and OS-3, while OS-2 and OS-4 were



dry. In the absence of DNAPL in the observation sumps and at the surface of the trench, test pits were not dug into the collection stone during the September 2013 inspection period.

2.2 Creek Bank Area

Visual inspections were performed along approximately 300 feet of the Creek Bank Area down gradient of the DNAPL collection trench in May, July and September, 2013. Based on the visual inspections performed by Golder personnel, the following observations were recorded and summarized on daily written inspection reports, included in this report as Appendix A. Photos taken during the inspections were also recorded and are included as Appendix B.

2.2.1 May 2013 Inspection

Several locations of small quantities of coal tar accumulations were observed north of the slurry wall during the May 2013 inspection period, including:

- Two locations approximately 17 ft. and 9 ft. west of observation sump OS-1 (or 36 ft. and 27 ft., respectively, west of piezometer PZ-4);
- One location approx. 11-15 ft. west of piezometer PZ-4 (approx. 4-6 ft. north of collection trench gravel northern edge;
- One location approx. 5 ft. west of piezometer PZ-1 at the creek edge (most likely existing material); and,
- One location approx. 30 ft. west of piezometer PZ-1 approximately halfway down creek bank in an area of previously remediated coal tar outbreak.

All accumulations were observed to be less than 6 inches wide in any dimension and localized at the surface. In conjunction with the final site restoration activities scheduled in May 2013 with Sevenson (the Corrective Measures contractor), Golder recommended and SNPE agreed to the removal of the observed DNAPL accumulations for disposal in accordance with the original contract provisions. The removals were performed and the total amount removed for disposal amounted to less than 10 pounds of mixed DNAPL residuals mixed with soil.

2.2.2 July 2013 Inspection

New DNAPL accumulations were not observed during the July 2013 inspection period along the upgradient slope and toe area of the creek bank north of the DNAPL collection trench, as well as the downgradient portion adjacent to the creek; however, as a result of a severe weather event near the end of June 2013, the creek bank access road exhibited significant erosion, including:

- Section of washed out gravel along access road approx. 100 to 150 ft. from paved portion of upper access road;
- Washed out gravel along access road along downslope to lower creek area, with exposed grout curtain surface visible beneath gravel roadbed; and,
- Areas of gravel washout accumulated adjacent to the edge of the Creek.





In August 2013, Sevenson performed repairs to the creek bank access road area where significant erosion was noted during the July 2013 inspection period. Repairs included placement of new, coarser gravel along the steep downslope portion of the access road, as well as along the lower creek area along the north side of the creek bank and removal of accumulated gravel adjacent to the Creek.

2.2.3 September 2013 Inspection

Following the access road repairs at the site, Golder personnel returned in September 2013 for a followup inspection. The access road was observed to be in satisfactory condition with the placement and regrading of new gravel. In addition, no new DNAPL accumulations were observed during the September 2013 inspection period along the upgradient slope and toe area of the creek bank north of the DNAPL collection trench, although heavy foliage at the time of inspection may have limited full observation of possible small outbreaks. New DNAPL accumulations were not observed along the downgradient portion adjacent to the Creek.

2.3 Collection Trench Overflow Filter Sump Structure

Inspections of the collection trench drainage/filtration system including the Filter Sump and gravel filled sump drain were performed during the May, July and September, 2013 inspection periods. Visual observations included noting the general condition of the drainage sump filter media and any evidence of excessive solids accumulation, presence of DNAPL residuals or filter media washout. Based on the visual inspections performed by Golder personnel, the following observations were recorded and summarized on daily written inspection reports, included in this report as Appendix A. Photos taken during the inspections were also recorded and are included as Appendix B.

2.3.1 May 2013 Inspection

During the May 2013 inspection period, there was no observation of DNAPL present on the surface of accumulated water in the overflow filter sump. There was no erosion or disturbance of the drainage sump filter media, with only negligible sediment present on the top of the sand media. The overflow section (filtered water discharge chamber) of the sump structure was clear and free of any sediment or solids.

The gravel filled sump drainage area adjacent to the filter sump was observed to be in good condition with no evidence of surficial water overflow, silting or DNAPL.

2.3.2 July 2013 Inspection

During the July 2013 inspection period, due to an access lock malfunction there were no observations made of the interior of the overflow filter sump structure.

The gravel filled sump drainage area adjacent to the filter sump was observed to be in good condition with no evidence of surficial water overflow, silting or DNAPL.



2.3.3 September 2013 Inspection

During the September 2013 inspection period, water was observed draining through a minor amount of muddy sediment on top of the filter media. A wooden probe stick was used to push into the filter sand with no evidence of coal tar or DNAPL sheen present. There was no erosion or disturbance of the drainage sump filter media, and the overflow treated water chamber of the sump structure was clear and free of any sediment or solids.

The gravel filled sump drainage area adjacent to the filter sump was observed to be in good condition with no evidence of surficial water overflow, silting or DNAPL.





3.0 SEMI-ANNUAL GROUNDWATER MONITORING

3.1 Introduction

A total of four (4) piezometers located in the Creek Bank Area were installed in 2012 and two (2) bedrock monitoring wells located at the top of the escarpment within the VDM plant site and installed in 1999 and 2006 were monitored to establish a groundwater quality baseline data set at the site as described below. A table summarizing the piezometer, monitoring well and DNAPL Observation Sump installation information (Table 3-1) was provided in the Operations & Maintenance Plan (OMP) report previously submitted by Golder (Golder, April 2013).

3.2 Creek Bank Piezometers

Piezometer development and semi-annual groundwater sampling was performed on the four (4) piezometers (PZ-1, PZ-2, PZ-3 and PZ-4) installed as part of the Creek Bank Corrective Measures in 2012 (refer to Figure 3-1) as described below.

3.2.1 Piezometer Development

The 2-inch diameter piezometers were developed in June 2013 by bailing using dedicated polyethylene bailers to remove drill cuttings and water introduced into the formation during installation. All piezometers installed along the creek bank were developed, with the exception of PZ-1, which was dry or contained a negligible amount of standing water at the time of development and sampling activities.

Development of the remaining piezometers continued until field measured turbidity readings stabilized and further reductions were not observed in the extracted groundwater and pH, specific conductivity and temperature as measured in the field stabilized. It should be noted that during development of piezometer PZ-4, the pH readings were noted to be on the high (basic) side of neutral (above 10.0 pH) and may be attributed to bentonite or grout contamination in the borehole during the installation process.

Well development data, including the duration of the development process, methods employed, and the volume of water removed, are included on the Development Field Logs provided in Appendix C. Water purged from the piezometers during the development process was collected by Golder personnel in appropriate containers and discharged into VDM's process sewer manhole.

3.2.2 Piezometer Sampling & Analytical Results

Following development, groundwater samples were collected from each of the piezometers to assess the general groundwater quality up gradient and down gradient of the grout wall and bedrock cutoff system. Pre-sampling activities included determining the piezometer's water elevation, a piezometer-maintenance check, and non-aqueous phase liquid (NAPL) determination. All piezometers were measured, however piezometer PZ-1 was found to be dry during sampling activities and no measurements could be obtained.





After completion of these pre-sampling activities, the piezometers were purged of three well volumes (or until dry). A sample of the third well volume was measured for the following field parameters: pH, temperature, and specific conductivity.

Groundwater samples were then collected for chemical analysis using dedicated polyethylene bailers. The groundwater samples were shipped via courier under proper chain of custody procedures to Adirondack Environmental Services, Inc. (Adirondack) in Albany, New York, a New York State Department of Health Environmental Laboratory Accreditation Program (ELAP) certified laboratory, within 24 hours of collection. Water purged from the piezometers during the sampling activities was collected in appropriate containers by Golder personnel and discharged into VDM's process sewer manhole. At the conclusion of each semi-annual sampling event, the physical condition of the piezometers and protective casings/locks was also noted and any recommended repairs or maintenance required (if necessary) was documented on the sampling logs provided in Appendix C.

All piezometer groundwater samples collected were analyzed for TCL Volatile Organic Compounds (VOCs) in accordance with USEPA Method 8260B and TCL Semi-volatile Organic Compounds (SVOCs) in accordance with USEPA Method 8270C and the analytical results are presented in Table 3-1. This is the first year of Site monitoring following the completion of the Corrective Measures, therefore the results presented in Table 3-1 establish a baseline set of groundwater quality data.

The results of the piezometer sampling and analyses identified one VOC, (chloroform in PZ-2) and SVOCs, (methyphenol compounds and phenol in PZ-3 and PZ-4) in one or both sampling events as exceeding the NYSDEC Part 703 groundwater quality standards (GWQS). No other compounds were detected above the GWQS. Golder will assess the piezometer groundwater data for trends and evaluate the effectiveness of the Corrective Measures when additional analytical data is collected during future annual monitoring events.

3.3 Plant Monitoring Well Sampling & Analytical Results

Semi-annual groundwater sampling was performed on two (2) existing monitoring wells, MW-3D and MW-7D, located within the operational portion of the VDM facility at the top of the escarpment, to assess the general groundwater quality at these up gradient locations on the top of the escarpment. Monitoring well MW-3D was installed in 1999 by Dames and Moore and MW-7D was installed in 2006 by Benchmark as part of voluntary site investigations associated with the sale of the facility. Refer to Figure 1-2 for their location.

During the June 2013 sampling period, plant well MW-7D was sampled and inadvertently labeled as plant well MW-2D on the chain of custody due to faded well identification tags in the field. Wells MW-2D and MW-7D are located within approximately 10-feet of each other and are installed to similar depths into the





bedrock formation. Future monitoring events will continue to sample MW-7D (in lieu of MW-2D) due to its accessibility and nearly identical installation characteristics.

Pre-sampling activities included measuring the well's water elevation, a well-maintenance check, and non-aqueous phase liquid (NAPL) determination. After completion of these pre-sampling activities, the wells were purged of three well volumes (or until dry). A sample of the third well volume was measured for the following field parameters: pH, temperature, and specific conductivity. Groundwater samples were then collected for chemical analysis using dedicated polyethylene bailers. The groundwater samples were shipped via courier under proper chain of custody procedures to Adirondack within 24 hours of collection. Water purged from the wells during the sampling activities was collected in appropriate containers by Golder personnel and discharged into VDM's process sewer manhole.

All monitoring well groundwater samples collected were analyzed for TCL Volatile Organic Compounds (VOCs) in accordance with USEPA Method 8260B and TCL Semi-volatile Organic Compounds (SVOCs) in accordance with USEPA Method 8270C and the analytical results are presented in Table 3-1. This is the first year of Site monitoring following the completion of the Corrective Measures, therefore the results presented in Table 3-1 establish a baseline set of groundwater quality data.

The results of the monitoring well sampling and analyses identified six VOCs in one or both monitoring wells as exceeding the NYSDEC Part 703 GWQS. No SVOCS were detected in the monitoring wells above the GWS. Golder will assess the Plant monitoring well groundwater data for trends and evaluate potential impacts of the upgradient groundwater on the Corrective Measures when additional analytical data is collected from future annual monitoring events.

At the conclusion of each semi-annual sampling event, the physical condition of the monitoring wells and protective casings or covers was noted and any recommended repairs or maintenance required (if necessary) was documented on the sampling logs provided in Appendix C.

3.4 Filter Sump Structure Sampling & Analytical Results

Semi-annual sampling was performed on the collection trench drainage/filtration system overflow chamber as part of the annual site inspection activities performed by Golder personnel in 2013. One aqueous sample was collected from the overflow chamber of the Filter Sump to assess the general performance of the grout wall and bedrock cutoff system. Pre-sampling activities included inspection of the vault filter media, a vault-maintenance check, and non-aqueous phase liquid (NAPL) determination.

After completion of these pre-sampling activities, a sample of the Filter Sump effluent water was measured for the following field parameters: pH, temperature, and specific conductivity. Aqueous





samples were then collected for chemical analysis by direct fill methods. The aqueous samples were shipped via courier under proper chain of custody procedures to Adirondack within 24 hours of collection.

Samples collected from the collection trench drainage/filtration system overflow chamber were analyzed for TCL Volatile Organic Compounds (VOCs) in accordance with USEPA Method 8260B and TCL Semivolatile Organic Compounds (SVOCs) in accordance with USEPA Method 8270C and the analytical results are presented in Table 3-1. This is the first year of Site monitoring following the completion of the Corrective Measures, therefore the results presented in Table 3-1 establish a baseline set of data. As additional analytical data is collected during future annual monitoring periods, Golder will assess the data for trends and evaluate the effectiveness of the Corrective Measures as appropriate.

No VOCs or SVOCs were detected above the GWQS in the Filter Sump effluent samples.

At the conclusion of each semi-annual sampling event, the physical condition of the collection vault was noted and any recommended repairs or maintenance required (if necessary) was documented on the sampling logs provided in Appendix C.



4.0 MAINTENANCE AND CLEAN-OUT ACTIVITIES

As described in Section 2.0 above, the inspections conducted in 2013 did not find evidence of DNAPL impacts to the DNAPL Collection Trench or Filter Sump, therefore maintenance or clean-out activities were not necessary or performed on these components of the Creek Bank Area remedial system. Repairs to the piezometers and monitoring wells were not required since no damage was observed to the protective casings, locks or the monitoring well or piezometer risers.

Visual evidence of minor DNAPL accumulations, however, were observed during the May 2013 inspection event as noted in Section 2.2.1 and were addressed as described below.

4.1 Creek Bank Area

The results of the May inspection described in Section 2.2.1 indicated that the lower Creek Bank Area had accumulated small quantities of DNAPL residuals that were not present at the conclusion of remedial activities in November of 2012. Due to the accessibility of these accumulations and previous scheduling of the remedial contractor to be on-site for final restoration, Sevenson was tasked to manually remove and dispose of the accumulated DNAPL residuals and associated impacted soils. The five small areas of DNAPL accumulation noted in the May 2013 inspection report (Appendix A) were all surficial and readily removed with a shovel and placed in a 5-gallon bucket. This material was estimated to be less than 10 pounds total and transferred into an open top drum. The drum was disposed of at Modern Landfill as a non-hazardous industrial waste under the approved coal tar/soil profile previously obtained for the corrective measures work performed in the fall of 2012.

Subsequent to removal of impacted residuals, topsoil imported from a virgin off-site source was placed in the area of the removals to restore the area to pre-excavation grades and seeded to conform to the overall site restoration specifications.



February 2014	13	Project No.093-89168
---------------	----	----------------------

5.0 **REFERENCES**

1.) Golder Associates Inc., SNPE-VanDeMark Corrective Actions, Operation & Maintenance Plan, prepared for SNPE Inc., April 2013.



TABLES

TABLE 3-1

SNPE-VANDEMARK SITE 2013 GROUNDWATER AND VAULT MONITORING RESULTS LOCKPORT, NY

Lab ID		130617007-001	130930005-006B	130617007-003	130617007-002	130930005-001B	130930005-002B	130617007-004	130930005-003B	130617007-005	130930005-004B	130617007-006	130930005-005B	130617007-007
Sample Date	Groundwater	6/13/2013	9/26/2013	6/13/2013	6/13/2013	9/26/2013	9/26/2013	6/13/2013	9/26/2013	6/13/2013	9/26/2013	6/13/2013	9/26/2013	6/13/2013
Sample ID	Quality Standards	Vault Effluent	Vault Effluent	MW-3D	MW-7D+	MW-3D	MW-7D	PZ-2	PZ-2	PZ-3	PZ-3	PZ-4	PZ-4	Dup (MW-3D)
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Volatile Organics by GC/MS (US EPA	A Method 8260B)													
1,1,1-Trichloroethane	5	-	-	11	19	13	71	-	-	-	-	-	-	11
1,1-Dichloroethane	5	-	-	87	79	120	260	-	-	-	-	-	-	89
1,1-Dichloroethene	5	-	-	27	21	38	70	-	-	-	-	-	-	27
1,2-Dichloroethane	0.6	-	-	17	2 ^J	23	-	-	-	-	-	-	-	17
2-Butanone	50	-	-	-	-	-	-	-	35	-	-	-	-	-
Acetone	NS	1.8 ^{J, B}	-	-	-	-	-	-	12	-	8.6 ^J	8.3 ^{J, B}	-	-
Chloroethane	5	-	-	-	20	-	58	-	-	-	-	-	-	-
Chloroform	7	4.2 ^J	-	-	-	-	-	12	14	-	-	-	-	-
Ethylbenzene	5	-	-	-	2.9 ^J	-	-	-	-	-	-	-	-	-
Vinyl chloride	2	-	-	17	5.3 ^J	26	23	-	-	-	-	-	-	18
Semivolatile Organics by GC/MS (US	EPA Method 827	0C)												
2-Methylnaphthalene	NS	-	-	-	-	-	1.1 ^J	-	-	-	-	-	-	-
4-Methylphenol	1*	-	-	-	-	-	-	-	-	-	2.6 ^J	-	-	-
4-Methylphenol & 3-Methlyphenol	1*	-	-	-	-	-	-	-	-	-	-	5.9 ^J	-	-
Acenaphthene	NS	-	-	2.5 ^J	27	2.9 ^J	28	-	1.4 ^J	-	3.7 ^J	-	-	2.3 ^J
Acenaphthylene	NS	-	-	-	1.2 ^J	-	-	-	-	-	-	-	-	-
Anthracene	NS	-	-	-	-	-	-	-	-	1.1 ^J	- ^J	-	-	-
Benz(a)anthracene	NS	-	-	-	-	-	-	-	2.0 ^J	1.3 ^J	- ^J	-	-	-
Benzo(a)pyrene	NS	-	-	-	-	-	-	-	1.6 ^J	1 ^J	- ^J	-	-	-
Bis(2-ethylhexyl)phthalate	5	-	-	-	-	-	2.5 ^J	1.5 ^J	1.1 ^J	1.2 ^J	- ^J	-	-	-
Carbazole	NS	-	-	-	2.3 ^J	1.2 ^J	5.1	-	-	-	-	-	-	-
Chrysene	NS	-	-	-	-	-	-	1.1 ^J	2.2 ^J	1.4 ^J	- ^J	-	-	-
Dibenzofuran	NS	-	-	-	16	1.2 ^J	18	-	-	-	-	-	-	-
Di-n-butyl phthalate	50	1.2 ^{J, B}	-	2 ^{J, B}	1.5 ^{J, B}	1.4 ^J	2.5 ^J	-	-	-	-	-	-	-
Fluoranthene	NS	-	-	-	-	-	1.5 ^J	1.1 ^J	2.6 ^J	1.6 ^J	- ^J	-	-	-
Fluorene	NS	-	-	-	8.9	-	9.7	-	-	-	-	-	-	-
Naphthalene	NS	-	-	-	8.2	-	9.8	-	1.5 ^J	-	3.4 ^J	4.3 ^J	-	-
Phenanthrene	NS	-	-	-	1.8 ^J	-	4.2 ^J	1.2 ^J	3.3	3.3 ^J	2.4 ^J	-	-	-
Phenol	1*	-	-	-	-	-	-	-	-	-	130	260	1.4 ^J	-
Pyrene	NS	-	-	-	-	-	1.1 ^J	1.9 ^J	4.4 ^J	2.8 ^J	-	-	-	-

Footnotes:

-

Analyses performed by Adirondack Environmental Services Inc.

Compound not detected above the Analytical Method Detection Limit

BOLD = Value exceed the groundwater quality standards.

+ This sample was incorrectly labeled as MW-2D on chain of custody and laboratory report

* = The sum of all phenols

NV = No GW Quality Standard

Qualifications:

^J = Analyte detected at a level less that Reporting Limit and greater than or equal to the Method Detection Limit. Concentrations in this range are estimated.

 B = Analyte detected in the method blank.

Table by:AML/RJMChecked by:DMPReviewed by:PTM

FIGURES







REFERENCE

1.) TOPOGRAPHY SHOWN ON THIS PLAN WAS TAKEN FROM SURVEY FILE xve-vandemark base.dwg, DATED 06-21-2010.

2.) BOREHOLE AND CORE LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE.

3.) MAP DIGITIZED FROM HARD COPY OF FIGURE 1 ENTITLED "SITE PLAN," PREPARED BY BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC.

4.) CONCRETE VAULT, PIEZOMETERS, GRAVEL COLLECTION TRENCH, OBSERVATION SUMPS, AND FRENCH DRAIN FROM 121205 FIELD DATA REVISED.XLSX, PREPARED BY WENDEL IN NOVEMBER 30, 2012.





APPENDIXA

OPERATIONS AND MONITORING SUMMARY INSPECTION FORMS

PROJECT NU OWNER: LOCATION:	MBER: 093-89168 SNPE - VanDeMark Chemical Lockport, New York	SHEET 1 OF 2 PROJECT TITLE: CONTRACTOR: SUB CONTRACTOR(S):	Creek Bank Corrective	Measures -Site No. 932149
	DATE: 05/09	13		
WEATHER: CLOUD COVE	$R \xrightarrow{p_j \psi} c \omega v p \psi$	LOW: @@@	HIGH	@ WIND
GOLDER PI	ERSONNEL ON SITE:	al 1 south f		
SUMMARY	OF INSPECTION OBSERVAT	TIONS:		
	and another the	drath of shind	X INIAN CAREA	VEP :
0 00	AC THAN OUT DIDATES	Northo of Schrol	of pr-A) -	WLINE WLOST
	17 WEST OF 03	1 (27' WEST	4 " h -	. IN LINE 10/05-1
Ø	4 Will 9	pz-4 (mpn)	4-6" NOATT	of PTT
F	The shart of	12-4		ene operated)
8	3 Dord 14 of	4 10 4	WORTH LEEA	ck of GRAVER)
	10-12 EAST OF	The I Cort	ER (Parsonsit N	10 T NAW MANDALANE)
0	5' WEST OF 12"1	amers Harpany	BAUN BARKE 1	IN man of pravious of
7	REMOVED OUT BREAK	Million - 1		
- 7	15 PITS IN DNA, 16 ONE PIT 14" EAST 2' BCS - NO SHEEN ON 16 SECOND PT 11' WE'S NO DNAPL OBSERVED	of PZ-4 TO A TAN DESERVED TOF PZ-4 TO A GOV DESCURSED V	TRENCH DEPTH OF 2: ISTAN R. PRES DEPTH OF 1.5 ISUME ASSESS M	5 B65 - HIT GW AT ENT) 1 B65 - GW D 10-12 B65 MMT) NO SHEEN
GOLDER A	CTIVITIES AND TEST RESUL	.TS:		
	AN ARIEA SOF FROM	SUMPS		<i>2</i>
	al CN 235' DEE	· (AT 1-2" BOS) \$	NOBED TO BOTTO	M - NO TINAPL ENCONTENTO
	-1: TAY PRIBER	TO BOTTOM, NO	ONAPC DOSEN	stell
	· 2 · FN N 10" DEP	prosed To Boy	TOM - NO DNA	PC ENLOWTERED /034500 EA
05	·.4 : DAY	proskA To Bolt	rom - NO DNA	PL ENCUUNTERED /0655Autic
F	LTER SUMP		and the second second	و و و و و و و و و و و و و و و و و
0	IENED HATCH - FI WARL ON SUNFACK.	NEGLICIBLE SED	YCKLEN CON	ARUN Shipton alan;
	EL Comi,			
			1	



GOLDER FORM: R4/0609 (JANUARY 2005)

Actual	SUBM	ITTED BY:	
A		11000	

GOLDER ASSOCIATES INC.

PROJECT N OWNER: LOCATION	NUMBER: 	093-8916 093-8916 PE - VanDeMark Cf Lockport, New Yo	8 emical rk S	Z MONITOF SHEET 1 OF 2 PROJECT TITL CONTRACTO UB CONTRACTOR	E: Creek Bank Cor R:	ARY rective Measures -Site No. 93214	9
WEATHER CLOUD CO GOLDER	:: DVER	DATE: ס דבאר דבאר ארע מני סיי אין אין אין אין אין אין אין אין אין א	E: 73 LOW PRE	3 : : : : : :	@HIGH <i>N_DN ^[]</i>	@ WIND	
PAT	RICK	MANTIN		ATHONG			
Ø	ON A PO O O O O	- Appnox - ON STED 0 5-1 APH 5-2 DRY 5-3 - APH 5-4 - DRY	160-14 EP DOWN TON 501 PROX 3.5' - 570N F. PROX 8" NO TA	50" FROM P STOPF FO MPS - PROD of WATER - NO OBSERVED : WATER - NO IMPZ (STONE	AUGO RIAD LOWEN CRE BED WITH PNAPL PRESEN D BOTTOM D MAPL OBSENVED D	6 N 100000 STICAC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T
3	085%,r. Courq - No	NEW DN	VP CAA OIA 4) MPC ACC	UMULAPIONS	SERVED	A (NOT TO HEAD) A	A.
(F)	OBSEA. - NO	ין איז איז איז איז איז ארע מאזא	DOWN O	SMOREN J 3 SMULAPEN	S OBSTRU	ent to call K	

GOLDER ACTIVITIES AND TEST RESULTS:



Patered SUBMITTED BY:

GOLDER FORM R4-0899 (JANUARY 2005)

GOLDER ASSOCIATES INC.

VI ERATIVINO & INVINTI URING DUMINIAN I SHEET 1 OF 2 PROJECT TITLE: **PROJECT NUMBER:** 093-89168 Creek Bank Corrective Measures -Site No. 932149 SNPE - VanDeMark Chemical OWNER: CONTRACTOR: LOCATION: Lockport, New York SUB CONTRACTOR(S): DATE: 09/26 WEATHER: TEMPERATURE: 65 LOW: HIGH NONE PRECIPITATION CLOUD COVER WIND **GOLDER PERSONNEL ON SITE:** PATRICIC MARTIN SUMMARY OF INSPECTION OBSERVATIONS: O ACLESS ROAD IN EXCELLENT CONDITION FOLLOWING REPAIRS REFERENCES IN ANGUST 2013 (PHOTOS TAKEN) (2) DNAPL OBSERVATION SUMPS - PRUBER W/WOOD POLE 05-1 · APPROX 3.5 of WATER - NO DNAPL presENT & NO SHEEN 05-2: Dry - NO DNAPL (STONE OBSER WED & BOTTEM) 05-3: APPROX 6" WATER -NO DNAPL & BOTTOM 05-4. DRY - NO DNAPL (SPONE & BOTTOM) 3 COLLECTION SUMP: HATCH OPENED, WATER IS DRAINING THRONGH SMALL AMOUNT OF SED MUDDY SEDIMENT ON TOP OF FILTER SAND PRUBE WAS USKO TO DIG INTO SAND ! NO COM THAN OR SHEEN WAS NOTED - CLEANWEN DISCHANCE CHAMBER IS CLEAR. OBSERVATION OF UP GRAPPENT SLOPE & TO E AREA (NORTH OF **GOLDER ACTIVITIES AND TEST RESULTS:** DNAPI COLLECTION TRENCH) - NO NEW DNAPL ACCUMULATIONS OBSERVED - HEAVY FOLINE GAOWTH MAY HAVE OBSCHRED SMALL OUTMARKES (5) OBSERVATION OF DOWN GRADIENT SLOPE MITTERNY TO EREEK - NO NEW DNAPC ACLUMULATIONS OBSERVED SUBMITTED BY: sociates

GOLDER FORM: R4-0619 (JANUARY 2005)

GOLDER ASSOCIATES INC.

APPENDIX B

INSPECTION PHOTOGRAPHS



February 2014

1







February 2014

2

PHOTO 3

Collection trench filter sump hatch during May 2013 inspection event.



PHOTO 4

Filter bed material on floor of filter sump in excellent condition during May 2013 event. No observed DNAPL on filter surface and negligible sediment was present.







February 2014

PHOTO 5

Access road erosion observed along downslope to lower creek area during July 2013 inspection event, looking southwest.



PHOTO 6

Access road erosion observed along downslope to lower creek area during July 2013 inspection event, with exposed grout curtain surface visible beneath gravel roadbed, looking southwest.







PHOTO 7

Condition of access road observed at lower creek area during July 2013 inspection event, with piezometers and filter sump at west end of collection trench alignment, looking west.



PHOTO 8

Condition of embankment toe on north side of collection trench alignment observed at lower creek area during July 2013 inspection event, with no new DNAPL accumulations observed, looking north.







РНОТО 9

Condition of downslope access road as observed during September 2013 monitoring event, following repairs made in August 2013, looking southwest.



PHOTO 10

Condition of lower access road as observed during September 2013 monitoring event, following repairs made in August 2013, looking west.





PHOTO 11

Repaired condition of downslope access road as observed during September 2013 monitoring event, following repairs made in August 2013, looking east.



PHOTO 12

Repaired condition of lower creek area along north side of creek bank as observed during September 2013 monitoring event, following repairs made in August 2013, looking south.





APPENDIX C

PIEZOMETER DEVELOPMENT AND SAMPLE COLLECTION FORMS



Chong SNPE LOCATION Uten De drach JUB NU BORING NO. DRILLING METHOD: SHEET 3 œ 3 SAMPLING METHOD: DRILLING START FINISH TIME TIME WATER LEVEL тіме DATE DATE DATE DATUM CASING DEPTH ELEVATION SURFACE CONDITIONS: NUMBER OF RINGS SAMPLE BLOWS/FT. SAMPLER SAMPLER TYPE DEPTH OF CASING INCHE INCHES RECOVENED DEPTH IN FEET SOIL GRAPH N0190050 🔊 DRILLING CONTR. DEPTH 3 40 Ņ CASA 1 .. . PISER 2 GAAY SAUDSTML. UHBU No Ted un eturn air The 3 NA. PINC 4 45 FT is bottom & bore hale '{5 El Rade 77 6 7 30 1560 8 9 5An 25 Phot 70 0 45 -11 3 μ 2 D.YHC •: 3 inshed on 3D 4 8 10 . 5 50 DATE IN 6 ₽, _ 7 #28.1 (3) (REV. 1(-80) 8 9 0



Golder Associates WELL DEVELOPMENT FIELD RECORD

JOB NAME	VanDeMa	K OHM	_	JOB NO.				WELL NO.	PZ-1
DEVELOPED BY	A. Lange		-	DATE OF	INSTALL.		·	SHEET 1	OF
STARTED DEVEL.	6-13-13 1		-	COMPLET	ED DEVEL.			/	
	DATE	TIME					DATE	TIME	
W.L. BEFORE DEVEL	. <u>10,5</u> 01	<u>6.1313 1 1342</u>	•	AFTER DE	EVEL.		_/	1	-
	DEPTH D	ATE TIME				DEPTH	DATE	TIME	
WELL DEPTH: BEFOR	RE DEVEL.	10.60		AFTER DE	VEL.		WELI	L DIA. (In)	
STANDING WATER C	OLUMN (FT.)	_0.10		STANDING	G WELL VOL	UME			gal.
SCREEN LENGTH				DRILLING	WATER LOS	s			gal.
		FIELD	PARAME	TERS					
DATE/TIME	VOLUME REMOVED (GALS)	SPEC. COND. (umhos/cm)	TEMP. (°F)	рН (s.u.)	OTHER			REMARKS	

		VOLUME	FIELI	D PARAME	TERS		
	DATE/TIME	REMOVED (GALS)	SPEC. COND. (umhos/cm)	TEMP. (°F)	рН (s.u.)	OTHER	REMARKS
				<u> </u>			
i							
	· · · · · · · · · · · · · · · · · · ·						
	<u>.</u>	<u> </u>		-			
ł							
ļ				. <u> </u>			
ŀ	, <u> </u>						
ŀ							
ļ							
ĺ							·····
ŀ							
1			= TOTAL VO			(len	

DEVELOPMENT METHOD:

Dry-well not developed

NOTES:

Golder Associates



Golder ssociates WELL DEVELOPMENT FIELD RECORD

JOB NAME Van DeMark OGM	JOB NO. 093-89168 WELL NO. PZ-2
DEVELOPED BY <u>A. Lange</u>	DATE OF INSTALL. 11-13-12 SHEET 1 OF
STARTED DEVEL. <u>G-13-13 / 1218</u> DATE TIME	COMPLETED DEVEL. <u>06-13-13 / 13 / /</u> DATE TIME
W.L. BEFORE DEVEL. 6.38 1613-13 1 0932 DEPTH DATE TIME	AFTER DEVEL. / / DEPTH DATE TIME
WELL DEPTH: BEFORE DEVEL. 10,53	AFTER DEVEL. <u>10.53</u> WELL DIA. (In) <u>1.0</u>
STANDING WATER COLUMN (FT.) <u>4,15</u>	STANDING WELL VOLUMEgal.
SCREEN LENGTH3`	DRILLING WATER LOSSgal.

		FIELI	D PARAME	TERS		
DATE/TIME	VOLUME REMOVED (GALS)	SPEC. COND. (umhos/cm)	TEMP. (°F)	рН (s.u.)	OTHER	REMARKS
63-13/1224	1.0	1189	8.7-	6.80	1emp: 55°	very turbirl
1230	1.075	1193	54.8	6.76	1	853NTU
1237	0.15	1207	34.8	6.79		690 NTU
1245	0.5	_1206	54,9	6.79		514 NU
1254	0.5	_1206	59.8	6.78		429NTU
1301	0.5	1205	54.6	6.76		$348 \lambda 10$
1000	 	120-1	54.6	6.76		J XX NTO
	0.0	1205	37.6	6.10		275210
						· · · · · · · · · · · · · · · · · · ·
				·		
· · · · · · · · · · · · · · · · · · ·						
· .						
			<u> </u>		L	
		5.0= TOTAL V	DLUME RE	MOVED ((gal.)	<u> </u>

DEVELOPMENT METHOD:

NOTES: twell vol: 0.68 twellvol: 0.17gal.

_ _ _ ~

Golder Associates



Golder ssociates WELL DEVELOPMENT FIELD RECORD

JOB NAME Van DeMark Ogu	JOB NO. 093-89168 WELL NO. <u>PZ-3</u>
DEVELOPED BY <u>A. Lange</u>	DATE OF INSTALL. <u>1</u> SHEET <u>1</u> OF
STARTED DEVEL. <u>61313 / 1404</u>	COMPLETED DEVEL. 6-13-13 / 1508
DATE TIME	DATE TIME
W.L. BEFORE DEVEL. 4.58 1613-13 1 1400	AFTER DEVEL. / /
DEPTH DATE TIME	DEPTH DATE TIME
WELL DEPTH: BEFORE DEVEL. 10,27	AFTER DEVEL. WELL DIA. (In) 1.0
STANDING WATER COLUMN (FT.) 5.69	STANDING WELL VOLUMEgal.
SCREEN LENGTH	DRILLING WATER LOSS gal.

	VOLUME	FIELD PARAMETERS				
DATE/TIME	REMOVED	SPEC. COND.	TEMP.	рН	Turb	REMARKS
	(GALS)	(umhos/cm)	(°F)	(s.u.)	OTHER	
6-13-13/1410	0.5	4.4)	56.6	7.97	*OR	Fortofrange
1415	0,5	4.32	56.6	7.65	*OR	0
1418	0,5.	-4,35.	56.6	7.49	*OR	
1422	0.75	4.34	56.6	7.43	<i>¥0</i> R	
1426	0.75	4.36	56.4	7.39	865	
1432	0.75	4.32	56.4	7.38	824	
1439	0.5	4.29	56.6	7.38	<u>545</u>	
1443	0.5	4.30	56.6	1.41	656	
1448	0.5	4,29	56.6	7.42	606	
1452	0.5	4.26	56.6	7.38	426	
1456	0.0	4.25	56.6	7.36	336	
500	0.5	4.22	56.6	7.33	<u>234</u>	
1504	0.5	4.22	56.6	7.34	176	
1508	<u> </u>	4.21	<u> </u>	7.33	157	
			ļ	i		
		·*	 			
			<u> </u>	i		
				L		
		= TOTAL VOLUME REMOVED (gal.)				

DEVELOPMENT METHOD:

NOTES:

.

1 well vol: 0.23

Golder Associates

.

•



Golder ssociates WELL DEVELOPMENT FIELD RECORD

. . .

JOB NAME Van Deylark Ot M	JOB NO. 093-89168 WELL NO.	PZ-4
DEVELOPED BY <u>A. Lange</u>	DATE OF INSTALL	OF
STARTED DEVEL. 6-13-13/ 1527	COMPLETED DEVEL. /	
DATE TIME	DATE TIME	
W.L. BEFORE DEVEL. 6-13-13/1523/5.05	AFTER DEVEL. / /	
DEPTH & DATE TIME	DEPTH DATE TIME	
WELL DEPTH: BEFORE DEVEL. 9.12	AFTER DEVEL. WELL DIA. (In)	
STANDING WATER COLUMN (FT.) _ <u>ー イ, の 7</u>	STANDING WELL VOLUME	gal.
SCREEN LENGTH	DRILLING WATER LOSS	gal.

		FIEL	D PARAME	TERS		
DATE/TIME	VOLUME REMOVED (GALS)	SPEC. COND. (umhos/cm)	TEMP. (°F)	рН (s.u.)	TUTER OTHER	REMARKS
6-13-13/1533	0.5	2,24	55,5	10.20	*OR	#out & rarge slight sheen
1536	0.5.	2.15	55.5	10.48	XOK	× // ×
1541	0.5	2.19	55.7	10.%	XFOR	u n n
1543	0,5	2.35	55.5	11.40	591	Stight + Sheen
1548	0.5	2.50	35.5	11.60	463	Slight Sheen
1552	0.5	2.64	55.5	11.74	368	
)558	,5.	2.69	55.5	11.80	278	
603	0.5	2.70	55.5	11.84	272	
608	0.5	2.67	55.5	11.85	236	
1611	0.5	2.64	<u>55-5</u>	11.83	282	
1615	0.8	2.33	55.5	11.77	281	
1618	0.5	2.30	55.5	11.77	260	
621	0.5	2.29	55,5	11.76	208	
626	0.5 ·	2,30	55.5	11.77	208	· · · · · · · · · · · · · · · · · · ·
					ļ	
	÷		<u> </u>			
	t _					
	1. C					
		= TOTAL V	OLUME RE	MOVED ((gal.)	

DEVELOPMENT METHOD:

NOTES: I well vol: 0.17

Golder Associates

GAI PROJECT NAME <u>Von</u>	DeMark O4M	GAI PROJECT NO.	<u> (193 - 8916</u> 8
SAMPLE ID. Va	ult effluent	SOURCE CODES: RIVER C	R STREAM, WELL, SOIL, OTHER (CIRCLE ONE)
	PURGING I	NFORMATION (IF APPLI	CABLE)
URGE DATE (yy/mm/dd)	//	TIME (24 HR CLOCK)	ELAPSED HRS
CASING VOL.(Gal.) PURGING DEVICE (SEE BELO	W)	GAL: PURGED (Gal.) PURGING DEVICE MATERI	AL
	SAMPLE	COLLECTION INFORM	ATION
SAMPLING DATE (yy/mm/dd)	0613113	TIME (24 HR CLOCK)	0948 MATRIX W
SAMPLING DEVICE (SEE BELC SAMPLING DEVICE MATERIAL	DW) <u>direct fill</u>	DEDICATED-(Y/N) // A SAMPLE TYPE - GRAB/CO	FILTERED (Y/N) <i>UA</i> MPOSITE (CIRCLE ONE)
A) AIR-LIFT PUMP (B) BLADDER PUMP	(C) PERISTALTIC PUMP (D) SCOOP/SHO	VEL (E) BAILER (F) OTHER (SPECIFY)	
	WELL IN	FORMATION (IF APPLIC	ABLE)
REFERENCE POINT		<u>LAND ELEVATION (FT./MSI</u>	-)·
REF. PT. ELEV.(FT. MSL)		WELL DEPTH (FT.)	
DEPTH TO WATER (REF. PT.) GW. ELEV.(FT. MSL.)	·	STICKUP (FT.) WELL DIAMETER (INCHES	
· · · · · · · · · · · · · · · · · · ·		•	
			-ICATES)
pn (STD)		\ \ <i>`</i>	
SPEC. COND.(uS)	\	<u> </u>	
TEMPERATURE (C)			- 17.3
OTHER (SPECIFY)			
· ·	CON	MENTS/CALCULATION	s
VEATHER CONDITIONS	Cince 65°		
VEATHER CONDITIONS	Miny, 65°	adaa	
VEATHER CONDITIONS	(rainy, 65° 0, et colorless, no	odor	
WEATHER CONDITIONS SAMPLE APPEARANCE A "DIA. CASING CONTAINS .16 "DIA. CASING CONTAINS .65	<u>(Miny, 65°</u> 0, ct-color(ess, no 3 Gal./Ft. 2 Gal./Ft.	odor	
WEATHER CONDITIONS SAMPLE APPEARANCE A " DIA. CASING CONTAINS .16 " DIA. CASING CONTAINS .65	<u>(<i>Ruing, 65°</i></u> 0, -ct-color(ess, no 3 Gal./Ft. 2 Gal./Ft.	odor	
WEATHER CONDITIONS SAMPLE APPEARANCE A " DIA. CASING CONTAINS .16 " DIA. CASING CONTAINS .65	<u>(Nuing, 65°</u> 0, -et-color(ess, no 3 Gal./Ft. 2 Gal./Ft.	edor	
WEATHER CONDITIONS SAMPLE APPEARANCE A " DIA. CASING CONTAINS .16 " DIA. CASING CONTAINS .65	<u>(Miny, 65°</u> O, ct-color(ess, no 3 Gal./Ft. 2 Gal./Ft.		
VEATHER CONDITIONS SAMPLE APPEARANCE	<u>(<i>Reing, 65°</i></u> <u>0, cl-color(ess, no</u> 3 Gal./Ft. 2 Gal./Ft.	PRESERVATIVES AND ANALYTICAL ME	THODS ON LABORATORY CUSTODY FORMS.
VEATHER CONDITIONS SAMPLE APPEARANCE A " DIA. CASING CONTAINS .16 " DIA. CASING CONTAINS .65 LEASE INCLUDE SAMPLE BOTTLE SIZE	<u>(ruing, 65°</u> <u>O</u> , cl- <u>color(ess, no</u> <u>3</u> Gal./Ft. <u>2</u> Gal./Ft. <u>5</u> , BOTTLE COLOR, BOTTLE MATERIAL,	PRESERVATIVES AND ANALYTICAL ME	THODS ON LABORATORY CUSTODY FORMS.



SAMPLE COLLECTION INFORMATION FORM

GAI PROJECT NAME Name	emark Ofu	GAI PROJECT NO.	093-89168
	J-2D	SOURCE CODES: RIVER C	R STREAM, WELL, SOIL, OTHER (CIRCLE ONE)
	PURGING I	NFORMATION (IF APPL	CABLE)
PURGE DATE (yy/mm/dd) CASING VOL.(Gal.) PURGING DEVICE (SEE BELOW)	06/13/13 3.08 bailer	TIME (24 HR CLOCK) GAL. PURGED (Gal.) PURGING DEVICE MATERI	1036 ELAPSED HRS. 24min. 9.32 AL DEDICATED (M)
	SAMPLE	COLLECTION INFORM	ATION
SAMPLING DATE (yy/mm/dd) SAMPLING DEVICE (SEE BELOW SAMPLING DEVICE MATERIAL	06/13/13 bouler Bly	TIME (24 HR CLOCK) DEDICATED-(20N) SAMPLE TYPE - GRAB/CC	1059 MATRIX W FILTERED (YAN) MPOSITE (CIRCLE ONE)
(a) AIR-LIFT PUMP (b) BLADDER PUMP (c) I	PERISTALTIC PUMP (D) SCOOP/SHO	VEL (E) BAILER (F) OTHER (SPECIFY)	ABLE)
REFERENCE POINT REF. PT. ELEV.(FT. MSL) DEPTH TO WATER (REF. PT.) GW. ELEV.(FT. MSL.)	 30.73	LAND ELEVATION (FT./MS WELL DEPTH (FT.) STICKUP (FT.) WELL DIAMETER (INCHES	-)
		SURMENTS (FOUR REPI	LICATES)
pH (STD) SPEC. COND. (US) m \$ TEMPERATURE (C) OTHER (SPECIFY)			
	CON	IMENTS/CALCULATION	S
WEATHER CONDITIONS	<u>rainy 65°</u>		
SAMPLE APPEARANCE	AQ, rust color, no	odoc	
2" DIA. CASING CONTAINS .163 G 4" DIA. CASING CONTAINS .652 G	al./Ft	······	w
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BC	DTTLE COLOR, BOTTLE MATERIAL, I	PRESERVATIVES AND ANALYTICAL ME	THODS ON LABORATORY CUSTODY FORMS.
SAMPLER SIGNATURE	Golde	er Associates	DATE



SAMPLE COLLECTION INFORMATION FORM

SAMPLE ID. $\underline{\mathcal{M}} \underline{\mathcal{W}} \underline{\mathcal{3}} \underline{\mathcal{D}}$	SOURCE CODES: RIVER OR STREAM, WELL, SOIL, OTHER (CIRCLE ONE)
PURGING INF	FORMATION (IF APPLICABLE)
PURGE DATE (yy/mm/dd) 0 6 3 3 CASING VOL.(Gal.) - - - 0 PURGING DEVICE (SEE BELOW) Dat(ec 0	TIME (24 HR CLOCK) ユームスス ELAPSED HRS. 一名加え GAL. PURGED (Gal.) ユース、その PURGING DEVICE MATERIAL DEDICATED のN)
SAMPLE CO	OLLECTION INFORMATION
SAMPLING DATE (yy/mm/dd) <u>061313</u> SAMPLING DEVICE (SEE BELOW) <u>Dailer</u>	TIME (24 HR CLOCK) <u>1152</u> MATRIX DEDICATED-(YN) FILTERED (YD) SAMPLE TYPE - GRAB/COMPOSITE (CIRCLE ONE)
(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PUMP (D) SCOOP/SHOVEL	(E) BAILER (F) OTHER (SPECIFY)
WELL INFO	RMATION (IF APPLICABLE)
REFERENCE POINT	LAND ELEVATION (FT./MSL) WELL DEPTH (FT.) STICKUP (FT.) WELL DIAMETER (INCHES)
FIELD MEASU	RMENTS (FOUR REPLICATES)
PH (STD) SPEC. COND.(uS) TEMPERATURE (C) OTHER (SPECIFY)	Final Purge Initial Sample Final Sample
сомм	ENTS/CALCULATIONS
SAMPLE APPEARANCE AQ, CUST COLOR DA ONOR	· · · · · · · · · · · · · · · · · · ·
2" DIA. CASING CONTAINS .163 Gal./Ft. 4" DIA. CASING CONTAINS .652 Gal./Ft.	
Duplicate collected 3. 3gal in 3 casings	
SAMPLER SIGNATURE	DATE

Golder

÷

SAMPLE COLLECTION INFORMATION FORM

GAI PROJECT NAME <u>VanDe</u>	Mark OfM_	GAI PROJECT NO.	<u>093-89168</u>
	<u>z-2</u>	SOURCE CODES: RIVER OR S	STREAM, WELL, SOIL, OTHER (CIRCLE ONE)
	PURGING II	NFORMATION (IF APPLICA	ABLE)
PURGE DATE (yy/mm/dd) CASING VOL.(Gal.) PURGING DEVICE (SEE BELOW)	06113113 017_ hailer	TIME (24 HR CLOCK) GAL. PURGED (Gal.) PURGING DEVICE MATERIAL	ELAPSED HRS53min 5.0 DEDICATED (ØN)
	SAMPLE	COLLECTION INFORMATI	ON
SAMPLING DATE (yy/mm/dd) SAMPLING DEVICE (SEE BELOW) SAMPLING DEVICE MATERIAL	06113113 bailec	TIME (24 HR CLOCK) DEDICATED-(20N) SAMPLE TYPÉ - GRAB/COMP	L3L4 MATRIX FILTERED (YAD) OSITE (CIRCLE ONE)
(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PE	RISTALTIC PUMP (D) SCOOP/SHOV	/EL (E) BAILER (F) OTHER (SPECIFY)	······
	WELL INF	FORMATION (IF APPLICAB	LE)
REFERENCE POINT REF. PT. ELEV.(FT. MSL) DEPTH TO WATER (REF. PT.) GW. ELEV.(FT. MSL.)	TOR 	LAND ELEVATION (FT./MSL) WELL DEPTH (FT.) STICKUP (FT.) WELL DIAMETER (INCHES)	<u>_j53</u> i
pH (STD) SPEC. COND.(uS) TEMPERATURE (C) OTHER (SPECIFY)			<u>al sample</u> <u> </u>
	COM	MENTS/CALCULATIONS	
WEATHER CONDITIONS	65°, paing		
SAMPLE APPEARANCE	AQ, H. brann 100	odar	
2" DIA. CASING CONTAINS .163 Ga 4" DIA. CASING CONTAINS .652 Ga	L/Ft.		
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOT	TLE COLOR, BOTTLE MATERIAL, F	PRESERVATIVES AND ANALYTICAL METHO	DDS ON LABORATORY CUSTODY FORMS.
SAMPLER SIGNATURE	Golde	er Associates	DATE

Golder Associates SAMPLE COLLI	ECTION INFORM	ATION FORM		
GAI PROJECT NAME Van DeMark Oth	GAI PROJECT NO.	0 <u>93-8916</u> 8		
SAMPLE ID. PZ=3	SOURCE CODES: RIVER (DR STREAM, WELL, SOIL, OTHER (CIRCLE ONE)		
PURGING INFORMATION (IF APPLICABLE)				
PURGE DATE (yy/mm/dd)0 6 1 3 1 3CASING VOL.(Gal.)0.23PURGING DEVICE (SEE BELOW)bailer	TIME (24 HR CLOCK) GAL. PURGED (Gai.) PURGING DEVICE MATER	<u>1404</u> ELAPSED HRS. <u>1・04</u> <u>7.75</u> IAL DEDICATED ()N)		
SAMPLE	COLLECTION INFORM	ATION		
SAMPLING DATE (yy/mm/dd) SAMPLING DEVICE (SEE BELOW) SAMPLING DEVICE MATERIAL	TIME (24 HR CLOCK) DEDICATED-(\$/N) SAMPLE TYPE - GRAB/SC	1514 MATRIX FILTERED (YAC) OMPOSITE (CIRCLE ONE)		
(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PUMP (D) SCOOP/SHOW	VEL (E) BAILER (F) OTHER (SPEC:FY)	ABLE)		
REFERENCE POINT REF. PT. ELEV.(FT. MSL) DEPTH TO WATER (REF. PT.) 4 <u>58-70.27</u> - GW. ELEV.(FT. MSL.)	LAND ELEVATION (FT./MS WELL DEPTH (FT.) STICKUP (FT.) WELL DIAMETER (INCHES	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} $		
FIELD MEAS	URMENTS (FOUR REP Final Purge	LICATES) Initial Sample Final Sample		
pH (STD) SPEC. COND.(uS) TEMPERATURE (C) OTHER (SPECIFY) ていし.		7.34 4.21 56.6 121MT		
СОМ	MENTS/CALCULATION	S		
SAMPLE APPEARANCE AQ. H. brown no oder				
2" DIA. CASING CONTAINS .163 Gal./Ft. 4" DIA. CASING CONTAINS .652 Gal./Ft.				
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, P	RESERVATIVES AND ANALYTICAL M	ETHODS ON LABORATORY CUSTODY FORMS.		
SAMPLER SIGNATURE	er Associates	DATE		

Golder Associates SAMPLE COLLECTION INFORMATION FORM				
GAI PROJECT NAME Van DeMark OtM	GAI PROJECT NO.	0 <u>93-89168</u>		
SAMPLE ID. PZ-4	SOURCE CODES: RIVER (OR STREAM, WELL, SOIL, OTHER (CIRCLE ONE)		
PURGIN	G INFORMATION (IF APPL	ICABLE)		
PURGE DATE (yy/mm/dd) <u>06/13/1</u> CASING VOL.(Gal.) <u>06/7</u> PURGING DEVICE (SEE BELOW)	TIME (24 HR CLOCK) GAL. PURGED (Gal.)	<u>1527</u> ELAPSED HRS		
SAMP				
SAMPLING DATE (yy/mm/dd) 061313 SAMPLING DEVICE (SEE BELOW) bailer SAMPLING DEVICE MATERIAL	_ TIME (24 HR CLOCK) _ DEDICATED-(DN) _ SAMPLE TYPE - & BBB/CO	1635 MATRIX FILTERED (YM) DMPOSITE (CIRCLE ONE)		
(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PUMP (D) SCOOP/	SHOVEL (E) BAILER (F) OTHER (SPECIFY)			
WELL	INFORMATION (IF APPLIC	CABLE)		
REFERENCE POINT	LAND ELEVATION (FT./MS WELL DEPTH (FT.) STICKUP (FT.) WELL DIAMETER (INCHES	SL)9. 72 9		
FIELD ME Initial Purge	ASURMENTS (FOUR REP Final Purge	LICATES) Initial Sample Final Sample		
pH (STD)				
SPEC, COND.(US)		2,29		
OTHER (SPECIFY) TURB		<u>119000</u>		
C	OMMENTS/CALCULATION	IS		
WEATHER CONDITIONS 65, ming				
SAMPLE APPEARANCE AQ, H. brown, faint	- Chemical Oder	· · · · · · · · · · · · · · · · · · ·		
2" DIA. CASING CONTAINS .163 Gal./Ft. 4" DIA. CASING CONTAINS .652 Gal./Ft.				
MS/MSD collected				
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERI	AL, PRESERVATIVES AND ANALYTICAL M	ETHODS ON LABORATORY CUSTODY FORMS.		
SAMPLER SIGNATURE		DATE		
Go	ader Associates	x.		

GAI PROJECT NAME Van De Mark O.	LM GAI PROJECT	. <u>09</u>	<u>3- 89/68</u>	
SAMPLE ID. $MW-3L$		ES: RIVER OR STRE	AM WELL SOIL, OTHER	R (CIRCLE ONE)
	PURGING INFORMATION	(IF APPLICABL	E)	
PURGE DATE (yy/mm/dd) CASING VOL.(Gal.)	<u>6/13</u> TIME (24 HR C GAL. PURGED		930 ELAPSED HR	s. <u>0:15</u>
				(20/N)
			<u>~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ </u>	
SAMPLING DATE (yy/mm/dd) <u>U 1/ A</u> SAMPLING DEVICE (SEE BELOW) <u>E</u> SAMPLING DEVICE MATERIAL S.L.	DEDICATED	LOCK) <u>Q</u> //N) - 6RAB/COMPOSII	アイン MATRIX FILTERED (Y	19) 19)
(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PUM	IP (D) SCOOP/SHOVEL (E) BAILER (F) OT	HER (SPECIFY)		·······
	WELL INFORMATION (F APPLICABLE)		
REFERENCE POINT TOR REF. PT. ELEV.(FT. MSL) DEPTH TO WATER (REF. PT.) GW. ELEV.(FT. MSL.)	LAND ELEVAT WELL DEPTH STICKUP (FT.) WELL DIAMET	ION (FT./MSL) (FT.) ER (INCHES)	44.87	
l Initial	FIELD MEASURMENTS (F	OUR REPLICATE	ES) Imple Final Sa	ample
pH (STD)	205		24	
SPEC. COND.(uS)	,16	_ 4.	04	<i></i>
	.70 _/	_ 4	30 _/	——
OTHER (SPECIFY)	/		/	
	COMMENTS/CALC	ULATIONS		
WEATHER CONDITIONS <u>SUMP</u>	55°F		· · · · · · · · · · · · · · · · · · ·	
SAMPLE APPEARANCE AD light - Grown	, very turpid, no	o dor		
2" DIA. CASING CONTAINS .163 Gal./Ft.	3.3gn/ in 3	Casing s	-	
+ DIA. CASING CONTAINS .652 Gal./Ft.	- • •	<i>V</i>		
	· · · · · · · · · · · · · · · · · · ·			
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BO	OTTLE MATERIAL, PRESERVATIVES AND	ANALYTICAL METHODS OF	LABORATORY CUSTODY FOR	AS.

.

SAMPLE ID. MW - MV PURGE DATE (yy/mm/dd) CASING VOL.(Gal.) PURGING DEVICE (SEE BELOW) E	SOURCE CODES: RIVER	OR STREAM, WELL SOIL, OTHER (CIRCL
PURGE DATE (yy/mm/dd) CASING VOL.(Gal.) PURGING DEVICE (SEE BELOW) E	TIME (24 HR CLOCK)	
PURGE DATE (yy/mm/dd) $O 9 / A 6 / I$ CASING VOL.(Gal.)	TIME (24 HR CLOCK) GAL, PUBGED (Gal.)	
CASING VOL.(Gal.)	GAL, PURGED (Gal.)	LOX5 ELAPSED HRS
C 41	PURGING DEVICE MATER	RIAL
SAN	IPLE COLLECTION INFORM	
SAMPLING DATE (yy/mm/dd)	3 TIME (24 HR CLOCK)	1050 MATRIX 4
SAMPLING DEVICE (SEE BELOW) <u>E</u>	DEDICATED (MN)	
(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PUMP (D) SCO	OP/SHOVEL (E) BAILER (F) OTHER (SPECIFY	/)
WEL	L INFORMATION (IF APPLIC	CABLE)
REFERENCE POINT	LAND ELEVATION (FT./M	SL)
REF. PT. ELEV. (FT. MSL) $\overline{2I}\cdot\overline{n}$	WELL DEPTH (FT.)	4 <u>4.@5</u>
GW. ELEV.(FT. MSL.)	WELL DIAMETER (INCHE	s)&.@
FIELD I	MEASURMENTS (FOUR REF	PLICATES)
Initial Purge	Final Purge	Initial Sample Final Sample
		$-\frac{1}{2}\left(\frac{2}{2}\right)$ $-\frac{1}{2}$
SPEC. COND.(uS) $-\frac{h_{-1}}{1} \frac{b}{c}$		
TEMPERATURE (C)	/ _/	
OTHER (SPECIFY)		/
·	COMMENTS/CALCULATIO	
WEATHER CONDITIONS Sundy, GO	°F	
SAMPLE APPEARANCE A, ruch trown, Very	testing no odds	
2" DIA. CASING CONTAINS .163 Gal./Ft.	Galin 3 CULLINGS	
4" DIA. CASING CONTAINS .652 Gal./Ft.		
	·····	
	·	
PLEASE INCLUDE SAMPLE BUTTLE SIZE, BOTTLE COLOR, BOTTLE MAT	EHIAL, PRESERVATIVES AND ANALYTICAL N	ALIHODS ON LABORATORY CUSTODY FORMS.
		DATE 9-26- R

Golder Associates SAMPLE COLL	ECTION INFORMATION FORM
GAI PROJECT NAME UDM OFM	GAI PROJECT NO. 093 - 89/68
SAMPLE ID.	SOURCE CODES: RIVER OR STREAM, WEDL, SOIL, OTHER (CIRCLE ONE)
PURGING	INFORMATION (IF APPLICABLE)
PURGE DATE (yy/mm/dd)//	TIME (24 HR CLOCK) ELAPSED HRS
PURGING DEVICE (SEE BELOW)	PURGING DEVICE MATERIAL DEDICATED (Y/N)
SAMPLI	
SAMPLING DATE (yy/mm/dd)// SAMPLING DEVICE (SEE BELOW) SAMPLING DEVICE MATERIAL	TIME (24 HR CLOCK) MATRIX DEDICATED-(Y/N) FILTERED (Y/N) SAMPLE TYPE - GRAB/COMPOSITE (CIRCLE ONE)
(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PUMP (D) SCOOP/SH	OVEL (E) BAILER (F) OTHER (SPECIFY)
WELL IN	IFORMATION (IF APPLICABLE)
REFERENCE POINT REF. PT. ELEV.(FT. MSL) DEPTH TO WATER (REF. PT.) GW. ELEV.(FT. MSL.)	LAND ELEVATION (FT./MSL)
FIELD MEA	SURMENTS (FOUR REPLICATES) Final Purge Initial Sample Final Sample
pH (STD)	
SPEC. COND.(uS)	
TEMPERATURE (C)	
OTHER (SPECIFY)	
CO	MMENTS/CALCULATIONS
WEATHER CONDITIONS	10 Sample taken.
SAMPLE APPEARANCE	
2" DIA. CASING CONTAINS .163 Gal./Ft.	
4" DIA. CASING CONTAINS .652 Gal./Ft.	
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL	PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS.
SAMPLER SIGNATURE	DATE 9-26-13
Gold	

. •

SAMPLE ID. PZ - 2 SOURCE CODES: RIVER OR STREAM, CED, SOIL, OTHER (C PURGING INFORMATION (IF APPLICABLE) PURGING INFORMATION (IF APPLICABLE) PURGING DEVICE (SEE BELOW) Q - Q - Q - Q - Q - Q - Q - Q - Q - Q -	GAI PROJECT NAME	GAI PROJECT NO.	<u>043-891</u> 68
PURGING INFORMATION (IF APPLICABLE) PURGE DATE (symmidd) CASING VOL(Gal) PURGING DEVICE (SEE BELOW) $\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $	SAMPLE ID. PZ-2	SOURCE CODES: RIVER OF	STREAM, WELL SOIL, OTHER (CIR
PURGE DATE (yy/mm/dd) 0 $7/2$ $0/2$ TIME (24 HR CLOCK) $1/40$ ELAPSED HRS. CASING VOL(Gal.) $0/2$ PURGING DEVICE (SEE BELOW) $0/2$ DEDICATED $0/1$ $0/2$ SAMPLING DATE (yy/mm/dd) $0/2/2$ $0/2/2$ PURGING DEVICE MATERIAL $0/2/2$ DEDICATED $0/1$ SAMPLING DEVICE (SEE BELOW) $0/2/2$ $0/2/2$ $0/2/2$ DEDICATED $0/1$ SAMPLING DEVICE (SEE BELOW) $0/2/2/2$ $0/2/2/2/2$ MATRIX SAMPLING DEVICE (SEE BELOW) $0/2/2/2/2/2/2$ SAMPLE TYPE - $0/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2$	PURGING IN	FORMATION (IF APPLIC	ABLE)
PURGING DEVICE (SEE BELOW) E PURGING DEVICE MATERIAL A DEDICATED C A	PURGE DATE (yy/mm/dd) $O \underline{9} \underline{2} \underline{6} \underline{1} \underline{3}$ CASING VOL.(Gal.) $O \underline{2}$	TIME (24 HR CLOCK) GAL, PURGED (Gal.)	$\frac{1}{0.7}$ ELAPSED HRS.
SAMPLE COLLECTION INFORMATION SAMPLING DATE (yy/mm/dd) 0.9/2.0/1.3 TIME (24 HR CLOCK) 1.4.2.2 MATRIX SAMPLING DEVICE (SEE BELOW) 201/2 SAMPLE TYPE - @ED/OCTOPOSITE (CIRCLE ONE) FILTERED (YØ) SAMPLING DEVICE MATERIAL 201/2 SAMPLE TYPE - @ED/OCTOPOSITE (CIRCLE ONE) FILTERED (YØ) SAMPLING DEVICE MATERIAL 201/2 SAMPLE TYPE - @ED/OCTOPOSITE (CIRCLE ONE) FILTERED (YØ) SAMPLING DEVICE MATERIAL 70/2 LAND ELEVATION (IF APPLICABLE) 10.53 REF. PT. LLEV.(FT. MSL) 0.6.55 STICKUP (FT.) 10.53 DEPTH TO WATER (REF. PT.) 6.55 STICKUP (FT.) 10.53 GW. ELEV.(FT. MSL.) 0.6.55 STICKUP (FT.) 10.53 DEPTH TO WATER (NEF. PT.) 6.55 STICKUP (FT.) 10.53 GW. ELEV.(FT. MSL.) 0.6.55 STICKUP (FT.) 10.53 10.53 SAMPLE APPERATURE (C) 1.2.2.6 1.3.2.4 1.3.2.4 1.3.2.4 1.3.2.4 1.3.2.4 1.3.2.4 1.3.2.4 1.3.2.4 1.3.2.4 1.3.2.4 1.3.2.4 1.4.3.2 1.4.3.2 1.4.3.2 1.4.3.2 1.4.3.2.4 1.4.3.2 1.4.5.0 <td></td> <td>PURGING DEVICE MATERIA</td> <td>LPOL DEDICATED (S/N)</td>		PURGING DEVICE MATERIA	LPOL DEDICATED (S/N)
SAMPLING DATE (yy/mm/dd) SAMPLING DEVICE (SEE BELOW) SAMPLING DEVICE (SEE BELOW) SEE COND.(US) TEMPERATURE (C) OTHER (SPECIFY) COMMENTS/CALCULATIONS WEATHER CONDITIONS SUMPLY (SO G^{O} SAMPLE APPEARANCE M_{C} (SO G^{O} SAMPLE APPEARANCE BOTTLE SIZE BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS. HEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS. HEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND	SAMPLE	COLLECTION INFORMA	ΓΙΟΝ
SAMPLING DEVICE (SEE BELOW) SAMPLING DEVICE (SEE BELOW) SAMPLING DEVICE MATERIAL (A) ARLIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PUMP (D) SCOOPSHOVEL (E) BALER (F) OTHER (SPECIFY) WELL INFORMATION (IF APPLICABLE) REFERENCE POINT REF. PT. ELEV.(FT. MSL) DEPTH TO WATER (REF. PT.) GW. ELEV.(FT. MSL) FIELD MEASURMENTS (FOUR REPLICATES) Initial Purge Final Purge Initial Sample Final Samp PH (STD) SPEC. COND.(uS) TEMPERATURE (C) OTHER (SPECIFY) COMMENTS/CALCULATIONS WEATHER CONDITIONS SAMPLE APPEARANCE M_{1} Very ISM. (D G° F SAMPLE APPEARANCE M_{1} Very ISM. (D G° F SAMPLE APPEARANCE M_{1} Very ISM. (D G° F SAMPLE APPEARANCE M_{2} Very ISM. (D G° F SAMPLE APPEARANCE M_{3} Very ISM. (D G° F SAMPLE APPEARANCE M_{4} C SAMPLE APPEARANCE M_{4} C SAMPLE APPEARAN	SAMPLING DATE (yy/mm/dd)	TIME (24 HR CLOCK)	142 MATRIX
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	SAMPLING DEVICE (SEE BELOW)	DEDICATED-(0%N) SAMPLE TYPE - @RAB/COM	FILTERED (Y(0)
WELL INFORMATION (IF APPLICABLE) REFERENCE POINT \overrightarrow{TOR} LAND ELEVATION (FT.MSL) $\overrightarrow{10.53}$ DEPTH TO WATER (REF. PT.) $\overrightarrow{6.55}$ STICKUP (FT.) $\overrightarrow{10.53}$ GW. ELEV.(FT. MSL)	(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PUMP (D) SCOOP/SHOVE	L (E) BAILER (F) OTHER (SPECIFY)	
REFERENCE POINT TOR LAND ELEVATION (FT./MSL) IO. 53 DEFTH TO WATER (REF. PT.)	WELL INF	ORMATION (IF APPLICA	BLE)
REF. PT. ELEV.(FT. MSL)	REFERENCE POINT	LAND ELEVATION (FT./MSL)	
IDEPTIFIO WATER (HEP. PL.)	REF. PT. ELEV.(FT. MSL)	WELL DEPTH (FT.)	10.53
FIELD MEASURMENTS (FOUR REPLICATES) Initial Purge Final Purge pH (STD)	DEPTH TO WATER (REF. PT.)(0.0.2)	STICKUP (FT.) WELL DIAMETER (INCHES)	<u>.</u>
$\frac{1}{1} = 0.0^{\circ} \frac{1}{100} = \frac{1}{100} $	FIELD MEASU	JRMENTS (FOUR REPLI	CATES)
SPEC. COND.(uS) TEMPERATURE (C) OTHER (SPECIFY) $ \begin{array}{c} 1.3.24\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.7.0\\ .1.$	pH (STD)		<u>6-85</u>
TEMPERATURE (C) 12.6 12.6 OTHER (SPECIFY) 12.6 12.6 COMMENTS/CALCULATIONS WEATHER CONDITIONS SUM MY, $(0.0^{\circ} f)$ SAMPLE APPEARANCE $f R_{c}$ Very $f_{c} f_{c} f$	SPEC. COND.(US) 1423		324
$\begin{array}{c} \begin{array}{c} \hline \\ \hline $			17.0
COMMENTS/CALCULATIONS WEATHER CONDITIONS Sun ny, (o 0° f- sample appearance fb, very light brown, Slightly Turbrd 2" DIA. CASING CONTAINS .163 Gal/Ft. 0, 6 gal in 3 (a sings 2" DIA. CASING CONTAINS .163 Gal/Ft. 0, 6 gal in 3 (a sings 4" DIA. CASING CONTAINS .652 Gal/Ft. 0, 6 gal in 3 (a sings 1" = 0, 0408 gal / ft 0, 6 gal in 3 (a sings PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS. \mathcal{U}_{int} \mathcal{U}_{int}			
WEATHER CONDITIONS <u>Sunny</u> (00°F SAMPLE APPEARANCE A, Very 13ht brown, Slightly Turbid 2" DIA. CASING CONTAINS .163 Gal./Ft. 2" DIA. CASING CONTAINS .652 Gal./Ft. 1" = 0.0408 gal / Pt PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS.	COM	MENTS/CALCULATIONS	V
SAMPLE APPEARANCE AR, Very 13/4 brown, Slizktly Turbrd 2" DIA. CASING CONTAINS .163 Gal./Ft. 4" DIA. CASING CONTAINS .652 Gal./Ft. 1" = 0.0408 gal / Ft PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS.	WEATHER CONDITIONS <u>SUMAY. (00°F</u>		
2" DIA. CASING CONTAINS .163 Gal./Ft. 4" DIA. CASING CONTAINS .652 Gal./Ft. 1" = 0.0408 gc//Ft PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS.	SAMPLE APPEARANCE AR, Very light thrown, 5	Slightly turbed	
4" DIA. CASING CONTAINS .652 Gal./Ft. 1" = 0.0408 gal / Ft PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS. 0 - 1	2" DIA. CASING CONTAINS .163 Gal./Ft.	In 2 Cachal	
J'' = 0.0408 gal/42 PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS.		() · · · · · · · · · · · · · · · · · ·	
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS.	4" DIA. CASING CONTAINS .652 Gal./Ft.		
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS.	4" DIA. CASING CONTAINS .652 Gal./Ft. 0 $1^{\parallel} = 0.0408 g_{a}/Ft$		
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PRESERVATIVES AND ANALYTICAL METHODS ON LABORATORY CUSTODY FORMS.	4" DIA. CASING CONTAINS .652 Gal./Ft. 0 $1^{\parallel} = 0.0408 g_{c}/Ft$		
A	4" DIA. CASING CONTAINS .652 Gal./Ft. $0^{-1} = 0.0408 \text{ gal}/\text{Pt}$		
SAMPLER SIGNATURE DATE / //	4" DIA. CASING CONTAINS .652 Gal./Ft. $J^{\parallel} = 0.0408 gal/Ft$ PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATERIAL, PR	ESERVATIVES AND ANALYTICAL MET	HODS ON LABORATORY CUSTODY FORMS.

GAI PROJECT NAME	00M	GAI PROJECT NO.	093-8916	8
SAMPLE ID. P2-	3	SOURCE CODES: RIV	ER OR STREAM, WEL	L, SOIL, OTHER (CIRCI
	PURGIN	G INFORMATION (IF A	PPLICABLE)	
PURGE DATE (yy/mm/dd) CASING VOL.(Gal.) PURGING DEVICE (SEE BELOW)	09126113 0114 F	TIME (24 HR CLOCK) GAL. PURGED (Gal.) PURGING DEVICE MA	1203 05	ELAPSED HRS
	SAMP	LE COLLECTION INFC		
SAMPLING DATE (yy/mm/dd) SAMPLING DEVICE (SEE BELOW) SAMPLING DEVICE MATERIAL	0 9,2 G, 1 3 E Poly	TIME (24 HR CLOCK) DEDICATED-(2/N) SAMPLE TYPE - GR	L2L3 B/COMPOSITE (CIRCL	MATRIX <u>L</u> FILTERED (V Ø) E ONE)
(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PER	ISTALTIC PUMP (D) SCOOPS	SHOVEL (E) BAILER (F) OTHER (SP		
	WELL	INFORMATION (IF APP	PLICABLE)	
REFERENCE POINT REF. PT. ELEV.(FT. MSL) DEPTH TO WATER (REF. PT.) GW. ELEV.(FT. MSL.)	<u>TOP</u> 5.59	LAND ELEVATION (FT WELL DEPTH (FT.) STICKUP (FT.) WELL DIAMETER (INC	CHES)	[<u>3</u> 0_
	FIELD ME Initial Purge	ASURMENTS (FOUR I Final Purge	REPLICATES)	Final Sample
pH (STD) SPEC. COND.(uS) TEMPERATURE (C)	10,09 2.22 182		<u>9.47</u> <u>1347</u> 18,2	
OTHER (SPECIFY)				/
	C	OMMENTS/CALCULAT	IONS	
WEATHER CONDITIONS	SUNTY. 66	J°F		
SAMPLE APPEARANCE A&	strictly prown	very slightly	turbed very	Smell globs
2" DIA. CASING CONTAINS .163 Gal. 4" DIA. CASING CONTAINS .652 Gal.	Ft. D1490 Ft.	al in 3 casilys		
~ 0.0700 gel/+T		,		
			· · · · · · · · · · · · · · · · · · ·	
			CAL METHODS ON LABORAT	DRY CUSTODY FORMS.
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTT				

GAI PROJECT NAME UDM (<u>JAM</u> GAI PROJECT NO.	<u>093-89/6</u> 8
sample id. $PZ - 4$	SOURCE CODES: F	IVER OR STREAM WELD, SOIL, OTHER (CIRCL
	PURGING INFORMATION (IF	APPLICABLE)
PURGE DATE (yy/mm/dd) <u>O q / 6</u> CASING VOL.(Gal.) <u>O 1 q</u>	GAL. PURGED (Gal.	$\frac{1227}{-0.6}$ ELAPSED HRS
		ORMATION
SAMPLING DATE (yy/mm/dd) <u>09</u> SAMPLING DEVICE (SEE BELOW) <u>E</u> SAMPLING DEVICE MATERIAL <u>B</u> /	X Image: Constraint of the second s	$\frac{1232}{\text{Filtered (Y/0)}} \xrightarrow{1}$
(A) AIR-LIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PU		
	7	
REFERENCE POINT	LAND ELEVATION (WELL DEPTH (FT.) STICKUP (FT.) WELL DIAMETER (II)	-1./MSL)10.25 10_25 1.0
Initia	FIELD MEASURMENTS (FOUR	REPLICATES)
pH (STD)	83	_7.3.4
SPEC. COND.(uS)		2.23
TEMPERATURE (C)		<u>+2.8</u>
	COMMENTS/CALCULA	TIONS
WEATHER CONDITIONS Sunny	. 60°F	
SAMPLE APPEARANCE AQ 1000	(right brown Slich)	ly turbed no odor
2" DIA. CASING CONTAINS .163 Gal./Ft.		
4" DIA. CASING CONTAINS .652 Gal./Ft. $I'' = 0_{1}040 B g_{4}/A4$	0.57 galin 3	<u>Casings</u>
	······································	* · · · · · · · · · · · · · · · · · · ·
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, B	OTTLE MATERIAL, PRESERVATIVES AND ANALY	TICAL METHODS ON LABORATORY CUSTODY FORMS.
	//	6 NI

Golder Associates SAMPLE COL	LECTION INFORM	
GAI PROJECT NAME VDM OKM	GAI PROJECT NO.	013-89164
SAMPLE ID. Vault Effluent	SOURCE CODES: RIVER	OR STREAM, WELL, SOIL, OTHER (CIRCLE ONE)
PURGIN	G INFORMATION (IF APPL	ICABLE)
PURGE DATE (yy/mm/dd)	TIME (24 HR CLOCK)	ELAPSED HRS
	PURGING DEVICE MATER	RIAL DEDICATED (Y/N)
SAMP	LE COLLECTION INFORM	ATION
SAMPLING DATE (yy/mm/dd) SAMPLING DEVICE (SEE BELOW) SAMPLING DEVICE (SEE BELOW) SAMPLING DEVICE MATERIAL (a) AIR-LIFT PUMP (B) BLADDER PUMP (C) PERISTALTIC PUMP (D) SCOOP	DEDICATED (24 HR CLOCK) DEDICATED (ON) SAMPLE TYPE - PHABICO SHOVEL (E) BAILER (E) OTHER (SPECIEV)	$\frac{1250}{\text{FILTERED (Y)}}$
WELL		ABLE)
REFERENCE POINT	LAND ELEVATION (FT./MS WELL DEPTH (FT.) STICKUP (FT.) WELL DIAMETER (INCHES	SL)
FIELD ME Initial Purge PH (STD) SPEC. COND.(uS) TEMPERATURE (C) OTHER (SPECIFY)	EASURMENTS (FOUR REP Final Purge	LICATES) Initial Sample Final Sample 207 17.1
ć	OMMENTS/CALCULATION	IS
SAMPLE APPEARANCE AQ, CRAS, COLORIE	J°F SS	
2" DIA. CASING CONTAINS .163 Gal./Ft. 4" DIA. CASING CONTAINS .652 Gal./Ft.		
		· · · · · · · · · · · · · · · · · · ·
PLEASE INCLUDE SAMPLE BOTTLE SIZE, BOTTLE COLOR, BOTTLE MATER	IAL, PRESERVATIVES AND ANALYTICAL M	ETHODS ON LABORATORY CUSTODY FORMS.
SAMPLER SIGNATURE	Idor Associatos	DATE 9-26-13
	AUGI ASSOCIALES	



314 North Pearl Street Albany, New York 12207 518-434-4546/434-0891 FAX

CHAIN	OF	CUST	ODY	BECC	RD
OTIVAL	<u> </u>	0001	<u>UNI</u>		115

AES Work Order #

				-
Experien	ice is	the	solutio	

A full service analytical research laboratory offering solutions to environmental concerns

Client Name:			Address:									
Gelder Send Report To:	$\mathcal{N}, \mathcal{F}_{\mathcal{C}}$ e (Location	<u>rest</u>	Ase	<u>~ .S</u>		<u>C (</u>	<u> </u>	Names)	Lile NY 14663			
Pair	CK Mar	ľ.n	VanD	o Mac	k				Å	.La	oac.	J. Unerly
Client Phone No	: 	Client Err	PON	Number: Samplers: (Sigila			Signature	1. Join back				
16.20	1-3380			<u></u>	<u>5-271</u>	68	Tim	e	Samol	e Type	Number	
AES Sample Number	- Sa	C mple Identif	lient ication & Location		Dai Samp	te pled	A=a. P≃p.	m. , m.	Matrix	Comp Grab	af Cont's	Analysis Required
	Voult	270	ent		6.13.	13	नवड	(A) P	W	X	1	SITCE SUCC
	U/10.14	- K1	pn t				C948	<u>()</u> Р	W	X	2	32608 VCC
	MW-2	20	·-···				059	(<u>A</u> ?) P	W	1	1	SJ70C SVC C
	MW-;	<u>2D</u>					u99	(A_ P	W		<u>]</u>	BJECBUCC.
	MW-	30					1152	P	\mathcal{W}			8276CSVCC
	MW-	<u>3D</u>					1152	P	\mathcal{W}	4	2	SZECS VCC
	PZ.	2					1314	A (P)	\mathcal{W}			8270CSVCC
	PZ-	2					1314	A (P)	$\overline{\mathcal{W}}$	<u></u> X	2	826CBVCC
	<i>₽</i> 2-	3.		ž		<u>`</u> {	1514	А (Р	W		1	\$270C SUCC
	PZ-	3					1514	A (P)	\tilde{w}		2	SALOB VCC
	PZ-	4	·				1635	A (P)	\mathbb{W}		- 1	8270C SUCC
	PZ	4					635		W	X	2	SOLOB VOC
	PZ-	445	s/usd			 .	635	A (P-	\mathcal{W}			82700 SUCC
	PZ-	4 M	S/MSD			/	1635	P)	W		12	52608 VCC
Shipment Arrive	ed Via:			CC Report	t To / Spe	cial Ins	tructior	1s/Re	marks:			
FedEx UPS	Client (AES)	Other:	<u></u>									
Turnaround Time	e Request:			4								
🗋 1 Day 🗔 2 Day	🔲 3 Day 🗆 5 Day	🏹 Norm	al									
Relinquished by	: (Signature)	a manufacture and the		Received	by: (Sign	ature),	1	*	1			Date/Time
	la J	2	543 Am		1.	<u> </u>	Th	17	<u>.(</u>			4/13/13 5 48
Relinquished by	: (Signature)	C		Received	by/(Sign	atur <u>ę</u>)		Č				f / Date/Time
Relinquished by	: (Signature)			Received	for Labor	ratory b	y:					Date/Time
	Temperature		AES	Dari	nrous De-				i		Droom	n Miriun Horning Turre
Ambient or Chilled					rentt Fill Y	ESEKVED N				RECEIVED WITHIN HOLDING TIMES		
Notes:	UI U		Note	s:						Note	IS:	· · ··
<u>.</u>	WHITE - La	b Copy		YELLOW	l - Sampl	er Copy	1		I		PINK - G	enerator Copy
			Adironda	ck Envi	ironm	ienta	I Se	rvio	ces.	Inc.		
	Σ.	l										
	- Caral											



314 North Pearl Street Albany, New York 12207 518-434-4546/434-0891 FAX

CHAIN C	DF CL	JSTODY	RECORD

AES Work Order #

A full service analytical research laboratory offering solutions to environmental concerns

Client Name:			Address:											
Echler Associates Inc 24301			N.Fr	J. Firet RA. Scheice Getzuit						بالأد	NY HICE	F		
Send Report To: Project Name			ne (Location	3 (Location) Samplers: (Name					ames)					
Client Phone No:	<u>. Mart.n</u>	lient Email:	lande	K				<u> </u>	A. Lance Schooly					
716-704-5850			~a	Man Sallo				ničis	د) رو تعت	iyilalute	1 Anna Konto			
				<u> </u>	<u>> 0 (168)</u>	Tim	e	Sampl	le Typ	e	Number			
AES Sample Number	Sampl	Client le Identification &	Location		Date Sampled	A=a. P=p.	m,. m.	Matrix	Comp	Grab	of Cont's	Analysis Req	uired	
	Deple	c. 1e			613-13	1152	A P	W		X		EZTEC SL	ic c	
	D. al.	140	-1			1152	(Â) P	W		X.	2	SZECB VC	С	
	Trans	lank			\downarrow		A P	\mathcal{W}		X	-	8260B V	c C	
	- 4						A P						~	
							A P							
							A P							
							A P							
							A P							
		· · 1		ч.,-			A P	γ,			, .		1	
		· · ·		,			A P	₹*,					<u></u>	
							A P							
							A	÷						
							A						<u></u>	
		·					A P							
Shipment Arrive	d Via:			CC Repor	t To / Special Ins	truction	is/Rei	marks:						
FedEx UPS	Client AES 01	ther:												
urnaround Time	Request:	< Normal											ii Ş	
□ 2 Day	□ 5 Day												ć.	
Relinquished by: (Signature)				Received	Received by: (Signature)							Date/Tim	e - 4/91	
Relinquished by: (Signature)				Received	Received by: (Signature)				Date/Time				ie ie	
Relinquished by: (Signature)			Received	Received for Laboratory by:				Date/Time						
TEMPERATURE AES Bottles				Pro	PERLY PRESERVE)			RECEIVED WITHIN HOLDING TIMES					
Ambient or Chilled Y N Notes:			35:	Y N s:				Y N Nates:						
WHITE - Lab Copy				YELLOW - Sampler Copy				PINK - Generator Copy						
		Ad	ironda	ck <u>Env</u>	ironmento	ıl <u>S</u> e	rvic	ce <u>s,</u>	Inc	· · ·				
· ************************************														



314 North Pearl Street Albany, New York 12207 518-434-4546/434-0891 FAX

CHAIN C)F Cl	JSTOD	DY I	RECO	ORD
---------	-------	-------	------	------	-----

AES Work Order #

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: Address:	· · · · · · · · · · · · · · · · · · ·	- 1		·		
Send Benort To: Project Name	A. Forest A. A. e (Location)	, Strict	Samol) lers: (Nan	nesì	
Fut Martin V. Re	Mark			Que.	Ĺ	1 ant
Client Phone No: Client Email:	PO Number:		Sampl	lers: (Sigr	nature)	in the second se
70 July 5 480 Struction Children		57 <i>16 p</i> Time	Sample	Type Ni	umber	
AES Client Sample Number Sample Identification & Location	Date Sampled	A=a.m. P=p.m.	Matrix	Comp Grab	of Cont's	Analysis Required
MW-3D	Q-26-	13 1- 1745 P	W	X)	6270 C
$M_{\rm H} \omega - 3D$		(1945 P		×	2	5-60B
NIW - 7D		(A P			}	8:702
110-70					2	9260B
PZ-2		1/9 7 P)	42706
P2-2		1147 P			2	9260B
F2-3		/ A (P			1	1270 C
92-3		ा _२ २ २ (ि			2	1260B
F2-4		1: 3,77 (P)			ļ	
<i>\$</i> 2-4		1237 0			2	826 OB
Would Esphant		15.50 A)	9,2706
Valt Effluit		250 B			2	12603
the Stock)	1246 B
		A P				
Shipment Arrived Via: FedEx UPS Client AES Other:	CC Report To / Special	Instructions/R	emarks:			
Relinquished by: (Signature)	Received by: (Signature	(e)			Date/Time 9/27/13 09:20	
Retinquished by: (Signature)	Received by: (Signatu	e)		Date/Time		
Relinquished by: (Signature)	Received for Laborato	ry hy:		Date/Time		
TEMPERATURE AES Bottles Ambient or Notes: Image: Constraint of the second secon	PROPERLY PRESER Y N	/ED RECEIVED WITHIN HOLDING T Y N Notes:				D WITHIN HOLDING TIMES Y N
WHITE - Lab Copy	YELLOW - Sampler C	apy Ital Servi	ices	PII NC	NK - Go	enerator Copy

At Golder Associates we strive to be the most respected global group of companies specializing in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organizational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

Africa	+ 27 11 254 4800
Asia	+ 852 2562 3658
Australasia	+ 61 3 8862 3500
Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 55 21 3095 950

solutions@golder.com www.golder.com

Golder Associates Inc. 2430 N. Forest Road, Suite 100 Getzville, NY 14068 USA Tel: (716) 204-5880 Fax: (716) 204-5878

