



REMEDIATION IMPLEMENTATION REPORT

**KLINKE CLEANERS
4518 MONONA DRIVE
MADISON, WISCONSIN 53716
WDNR BRRTS# 02-13-551928**

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Prepared For:

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1.0 INTRODUCTION

Environmental Forensic Investigations, Inc. (EnviroForensics) has prepared this Remediation Implementation Report on behalf of Klinke Clothing Care, Inc. (Klinke) for the facility located at 4518 Monona Drive in Madison, Wisconsin (Site). This report has been prepared in accordance with Wisconsin Administrative Code (WAC) Chapter NR 724 and other associated State of Wisconsin Chapter NR 700 series rules.

The Site encompasses approximately 1.0 acres and is improved with a one to two-story 18,770 square-foot building (including second floor) that houses the Klinke corporate offices, dry cleaning operations, and several spaces occupied by commercial tenants. The Site is bounded by Monona Grove High School property to the north and east, a commercial property (also owned by Klinke) and residential properties to the south, and Monona Drive to the west. The surrounding area consists of a mix of residential and commercial properties. The general layout of the Site, including Site features and the surrounding area, is depicted in **Figure 1**.

The contaminants of concern (COCs) at the Site are the dry cleaning solvent tetrachloroethene (PCE) and its associated degradation products. Remedial actions were implemented to address subsurface contamination resulting from release of PCE. The remedial actions selected for the Site were:

- Soil (and rock) vapor extraction (SVE);
 - In-situ sorption and biodegradation; and
- Bio-augmented enhanced reductive dechlorination (ERD).

Documentation regarding the design and implementation of each remedial action, along with preliminary performance data, is presented in Sections 2 through 4.

1.1 Previous Remedial Actions

In addition to the selected remedial actions, contaminant mass was also removed via excavation activities completed during the Site investigation. An interim action excavation was completed in 2010 prior to construction of the newer portion of the Site building. Approximately 264 tons of PCE-contaminated soil was removed from a 30-foot by 25-foot area. The PCE concentration in soil within the excavation area ranged from the laboratory detection limit to 334,000 ug/kg. The excavation removed the most highly contaminated soil from the Site, eliminating continued leaching to vadose zone bedrock and groundwater.



Additional soil removal occurred during reconstruction of Monona Drive in 2013. Approximately 13,500 tons of contaminated soil was reportedly excavated and taken to a landfill for disposal. The PCE concentration in soil within the construction zone ranged from the laboratory detection limit to 4,700 ug/kg.

2.0 SOIL VAPOR EXTRACTION

2.1 Pilot Study

EnviroForensics initially conducted an SVE pilot study to evaluate the efficacy of SVE as a remedial measure at the Site. The study utilized one (1) SVE well, SVE-1B, one (1) vapor monitoring point, VP-1, and several existing monitoring wells for vacuum measurement purposes. Approximately 28 hours of continuous testing was performed during January 14 and 15, 2015. During the study, volumetric airflow rates, applied vacuums, subsurface vacuums, and influent air total volatile organic compound (VOC) concentrations were monitored at fixed intervals. Influent air samples were also collected into laboratory-supplied canisters and submitted to a laboratory for VOC analysis.

More than 8 pounds of PCE was removed from the unsaturated bedrock during the pilot study period. The PCE removal rate ranged from 0.2 and 1.7 pounds per hour. Vacuum influences of 0.50 inH₂O at 60 feet from the extraction well and 0.11 inH₂O at 100 feet from the extraction well were measured. The results indicated that SVE could be considered a viable remedial alternative for unsaturated bedrock near the Site. The results also indicated that a significant mass of PCE was contained in the bedrock, and removal of this mass would be necessary to effectively address ongoing impacts to groundwater and soil vapor.

The pilot study procedures, analysis, and results are detailed in the *Hydrogeological Assessment and Soil Vapor Extraction Pilot Study Report*, dated April 10, 2015. The pilot study report is provided in **Appendix A** for reference.

2.2 Design

The full-scale SVE system design was based on the pilot study data evaluation. The SVE remediation system design document was submitted to WDNR on May 29, 2015 and approved via email on the same day. The design called for a total of eight (8) nested pairs of bedrock extraction wells, and three (3) single extraction wells in the overburden sediment. Subsurface PVC conveyance piping was specified to connect the extraction wells to a blower and associated equipment and controls housed inside the Site building. The design plan was followed to develop contractor bidding documents and order/build the mechanical components of the system.

Deviations from the design document are as follows:

- Installation of an overburden extraction well was planned inside the warehouse area of the building; however, this well was not installed due to logistical issues after it was determined that eliminating the inside well would not affect system performance.
- Some of the extraction well locations were shifted slightly to minimize effects on Site features and business operations.
- In-line sumps consisting of capped sections of 12-inch diameter PVC pipe were added to the conveyance piping to collect condensate.

2.3 System Construction

The SVE system was constructed in three general phases between June 2015 and January 2016:

- Extraction well installation;
- Wellhead and conveyance piping installation; and
- Mechanical system construction.

2.3.1 Extraction Well Installation

The extraction wells were installed between June 29 and July 14, 2015, including eight (8) nested pairs screened in the sandstone bedrock (SVE-1A/B through SVE-8A/B), and two (2) single wells screened in the overburden sediment (SVE-9 and SVE-10). Hollow-stem auger drilling techniques were used to initially advance the borehole through the overburden soil, followed by air rotary drilling in bedrock. The nested well pairs were installed in a 12-inch diameter borehole (with the exception of SVE-1A and SVE-1B which were installed in separate 8-inch diameter boreholes). The overburden wells were installed in an 8-inch diameter borehole.

The extraction wells were constructed as follows:

- For all extraction wells, the screen material consists of 4-inch diameter Schedule 40 PVC pipe with Vee-Wire continuous wrap with 0.020-inch slots. Riser material consists of solid 4-inch diameter Schedule 40 PVC pipe from the top of screen to the intersection with the horizontal conveyance piping.

- The nested pairs of SVE wells include one (1) well screened from 10 to 25 feet below ground surface (bgs) and a deeper well screened from 30 to 45 feet bgs.
- The overburden SVE wells are screened from 3 to 8 feet bgs.
- A coarse sand filter pack was installed around each screened interval.
- Annular space seals consisting of bentonite-cement grout were installed between the screened intervals and from the top of the upper screen to the depth of the conveyance piping trench.

Extraction well locations shown on **Figure 2**. Well construction forms are provided in **Appendix B**.

2.3.2 Wellhead and Conveyance Piping Installation

Conveyance piping was installed to connect the SVE wells to the blower. The installation work was completed between August 11 and September 3, 2015. The conveyance piping consists of 4- or 6-inch diameter schedule 40 PVC pipe, and was installed in trenches outside the building and above ground inside the building. The conveyance piping layout is depicted in **Figure 2**. The piping is divided into five (5) separate trunk lines so that specific areas of the Site can be targeted or bypassed as needed. The trunk lines are connected to the following well sets, respectively:

- SVE-1A/B and SVE-2A/B
- SVE-3A/B and SVE-4A/B
- SVE-5A/B and SVE-6A/B
- SVE-7A/B and SVE-8A/B
- SVE-9 and SVE-10.

The trunk lines servicing these well sets are controlled by ball valves at the piping manifold located next to the blower. Individual gate valves are also installed in each wellhead so that the shallow or deep zone can be targeted. Diagrams of typical trench and wellhead configuration are depicted on **Figure 3**. However, the trench sections to the overburden wells are approximately 2-feet deep to mitigate the potential for SVE short circuiting to the trench backfill.

Flush-mount, traffic-rated steel vaults were installed to protect each wellhead and provided access to valves and vacuum measurement ports. The well vault sizes are 2 ft x 2 ft for single wells and 3 ft x 3 ft for the nested well pairs.

2.3.3 Mechanical Components

EnviroForensics directed the installation of the mechanical system during January 2016. The mechanical system consists of the following components:

- Model EB219OFC Kaeser Omega Blower Package
 - 50 hp Totally Enclosed Fan Cooled (TEFC) premium efficiency drive motor
 - Inlet silencer with filter
 - Fully enclosed powder coated and insulated steel cabinet
 - Sygma 2 blower control with Variable Frequency Drive
- Custom built air-water separator
- Custom built Remote Telemetry Unit (RTU) with Sensaphone SCADA 3000, various process controls and sensors in custom built enclosure with Human Machine Interface (HMI) and Real-Time Screen (RTS)
- Granular activated carbon vessel for treatment of water discharge

The SVE exhaust stack is attached to the side of the 2-story part of the building and extends to 27 feet above ground surface. Exhaust samples are collected from a port in the stack just above the blower.

2.4 Operation and Maintenance

A system commissioning and startup phase was conducted to confirm the system was constructed as designed, confirm the equipment operated as specified, and to gather and evaluate initial operating data. The commissioning data indicated that the maximum desired exhaust temperature was exceeded if the system vacuum went above 11 in Hg. Subsurface monitoring data indicated that the design radius of influence was achieved at lower vacuums, so 11 in Hg was established as the maximum operating vacuum for the system.

The SVE system was designed to allow various operational configurations. Each of the 18 extraction wells can be disconnected from service by closing the gate valve installed at the wellhead. This design allows the operators to target specific areas and/or depths as the remediation progresses to maximize efficiency. To start, vacuum was applied to the shallow and

deep zones separately on an alternating schedule. Operational changes are made as needed during the maintenance visits described below.

Operation and Maintenance (O&M) activities are conducted by EnviroForensics personnel to:

- Maximize system efficiency and contaminant mass removal rates;
- Keep the mechanical equipment in good working order; and
- Collect data to track system performance and determine a timeframe for shutdown.

Routine maintenance activities performed monthly include the following:

- Removing water from the in-line sumps;
- Addressing system shutdowns or operational issues; and
- Recording operational parameters and vapor concentrations to evaluate efficiency.
 - Effluent VOC vapor concentration;
 - System runtime;
 - System vacuum;
 - Wellhead vacuum;
 - Vacuum at up to eight (8) monitoring points;
 - Flow rate; and
 - Exhaust temperature.

In addition, maintenance on the blower is performed periodically by a representative of the manufacturer.

EnviroForensics has prepared an Operation and Maintenance Plan (O&M Plan) that details the operation and maintenance procedures. The OM&M Plan is provided as **Appendix C**.

2.5 Performance Monitoring

Samples of the SVE system air emissions are collected from a port in the exhaust stack and analyzed for VOCs to calculate mass removal rates and cumulative mass removed; and to determine operational changes to optimize system performance. Performance monitoring has

been conducted in accordance with the following emissions testing schedule required under WAC Chapter 419.07:

- Once each day for the first 3 days of system operation;
- Weekly for the next 3 weeks; and
- Monthly thereafter.

The sample results demonstrate that system emissions are below the permitting thresholds that apply to the SVE system (WAC Chapters NR 406 and 407, respectively):

- Total VOC limit of 5.7 pounds per hour (lb/hr).
- PCE limits of 35.4 lb/hr and 1,237 pounds per year (lb/yr).

Outdoor air samples were also collected from the northern and eastern Site boundaries to confirm that emissions do not affect air quality at adjacent properties. Two (2) 24-hour samples were collected during the first day and third day of system operation. The PCE concentrations in all outdoor samples were below the ambient air standard of 4,069 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Laboratory reports are included as **Appendix D**.

The estimated radius of influence (ROI) of the SVE system based on bedrock vacuum measurements is depicted on **Figure 2**. A measurement of 1 in H₂O is used as the threshold to define vacuum influence. The measured ROI is larger than the design ROI, extending to adjacent properties including properties west of Monona Drive.

More than 400 pounds of VOCs have been removed from the subsurface by the SVE system since startup in January 2016. Graphs showing mass removal rates and cumulative VOC mass removed are included as **Appendix E**. Remediation Site Operation, Maintenance, Monitoring & Optimization Reports (Form 4400-194) are prepared and submitted to WDNR semi-annually as required.

3.0 BARRIER WALL INJECTIONS

“Barrier walls” of PlumeStop[®], a sorption and biodegradation product, were placed along the western site boundary and part of the eastern site boundary. The barrier walls were created by injecting PlumeStop into closely spaced injection points screened across the thickness of the plume. The objective of the barrier wall application is to prevent continued migration of dissolved-phase contamination beyond the boundaries of the Site. The application of PlumeStop is designed to work synergistically with bio-augmented ERD treatment described in Section 4.0. A technical description of the PlumeStop product is presented in **Appendix F**.

3.1 Injection Point Installation

EnviroForensics directed the installation of 42 injection points nested in 21 boreholes. The 6-inch diameter boreholes were advanced using a combination of hollow-stem auger and rotary methods to a target depth of 98 feet bgs. The injection points are constructed of 1-inch diameter schedule 80 PVC screened at depths of approximately 50 to 70 feet below ground surface (bgs) and 77 to 97 feet bgs, respectively. Construction forms are presented in **Appendix G** and 3-dimensional visualizations of the injections points with respect to the water table and groundwater plume are presented in **Appendix H**.

Injection points BW-3A/B through BW-20A/B are located along the western Site boundary and southwest part of the Monona Grove High School property as shown on **Figure 4**. Injection points EW-1A/B through EW-3A/B are located along a portion of the eastern Site boundary.

3.2 Injection Activities

The PlumeStop injections were performed by Regenesi s Remediation Services (RRS) under the direction of EnviroForensics. The injections were conducted in two (2) phases as described in the following sections.

3.2.1 *PlumeStop Injection - Phase 1*

Phase 1 consisted of injections into the seven (7) nested points located on Monona Grove High School property (BW-14 through BW-20) during March 2016. Four (4) of the 14 individual injection points would not allow PlumeStop to be pushed into the formation even at pressures exceeding 150 pounds per square inch (psi). This is likely due to decreased permeability in the

bedrock surrounding the screened intervals of these injection points. The points that received no PlumeStop were BW-18B, BW-19A, BW-19B, and BW-20B. The proposed volumes were redistributed into the remaining ten (10) injection point locations.

The PlumeStop was prepared in 300 gallons batches consisting of 30 gallons of PlumeStop mixed with 270 gallons of water from the City of Madison supply. In all, a total of 20,000 pounds (lbs) of PlumeStop or 23,975 gallons of PlumeStop solution (mixed with water), was applied. The Phase 1 Application Summary Report is presented in **Appendix I**.

3.2.2 *PlumeStop Injection - Phase 2*

Phase 2 was performed during July 2016 and consisted of injections into 11 nested points located along the western Site boundary (BW-3 through BW-13), and three (3) nested injection points along a portion of the eastern Site boundary (EW-1 through EW-3). One (1) of the injection points (EW-3B) would not accept PlumeStop solution, even at pressures exceeding 150 psi. Therefore, the volume proposed for EW-3B was redistributed into EW-2A/B.

The same batch mixing process performed during Phase 1 was utilized for Phase 2. A total of 38,000 lbs of PlumeStop and 45,552 gallons of PlumeStop solution was applied during the Phase 2 application. The Phase 2 Application Summary Report is presented in **Appendix J**.

3.3 **Performance Monitoring**

The performance monitoring program for groundwater remediation is described on **Table 1**. The monitoring program includes sampling for VOCs; ethane, ethane, and methane; dehalococoides; and geochemical parameters (iron and manganese, sulfate, nitrate, total organic carbon, and alkalinity). Four (4) monitoring events are proposed. The timing of the monitoring events is designed to be flexible, based on evaluation of initial results. The proposed program is designed to demonstrate that the remediation efforts have changed the groundwater chemistry, begun to reduce the VOC mass, and inhibited further contributions to the plume downgradient of the western Site boundary.

The first performance monitoring event was conducted October 4-6, 2016, approximately 3 months after the injection activities. Initial monitoring results are presented in the laboratory reports in **Appendix K**. An evaluation of the monitoring results is discussed in Section 4.3.

4.0 SOURCE AREA INJECTIONS

Injections around the perimeter of the Site building were designed to promote ERD in the aquifer directly beneath the soil and vadose zone bedrock source area identified under the building. The objective of the source area injections was to alter aquifer conditions to support the anaerobic biodegradation of PCE.

4.1 Injection Point Installation

EnviroForensics directed the installation of 20 injection points nested in 10 boreholes. The 6-inch diameter boreholes were advanced using a combination of hollow-stem auger and rotary methods to a target depth of 103 feet bgs. The injection points, designated IP-1A/B through IP-10A/B, are constructed of 1-inch diameter schedule 80 PVC screened at depths of approximately 52 to 72 feet below ground surface (bgs) and 77 to 102 feet bgs, respectively.

The installation of the injection points were performed in phases. Injection points IP-1 through IP-3 were installed during July 2015 for pilot testing purposes. The remaining injection points IP-4 through IP-10 were installed during July 2016.

The source area injection point locations are shown on **Figure 5**. Injection point construction forms are included in **Appendix G** and 3-dimensional visualizations of the source area injection points and groundwater plume are presented in **Appendix H**.

4.2 Injection Activities

4.2.1 *Pilot Test*

Pilot testing was performed to evaluate the efficacy of the treatment approach, optimize the delivery method, and provide data to design the full-scale remedial injection program. The pilot test was designed for injection of a solution into IP-1 and IP-2, with performance monitoring at existing monitoring wells MW-3 and CMT-3. However, neither screened interval at IP-1 would accept solution at pressures up to 60 psi. Therefore, IP-1 was eliminated from the pilot test.

The solution selected for testing consisted of water from the City of Madison supply mixed with the following products:

- Bio-Dechlor Inoculum Plus (BDI) – a solution containing dehalococoides microorganisms;
- 3-D Microemulsion (3DMe), an electron donor emulsion; and
- Chemical Reducing Solution (CRS), and iron-based reagent.

Technical descriptions of these products are provided in **Appendix F**. The pilot injections were conducted by EnviroForensics personnel during December 7-9, 2015. Approximately 850 gallons of the solution was injected into IP-2A/B.

Performance monitoring was conducted intermittently through July 2016. An evaluation of the monitoring data confirmed the viability of the ERD technology for groundwater treatment at the Site. It was determined that a higher proportion of CRS in the solution would be beneficial for the full-scale application. Additionally, it was determined that injecting the BDI separately after the other materials were added to the subsurface would potentially improve conditions for support and growth of the microbe population.

4.2.2 Full-Scale Application

The full-scale source area injections were performed by EnviroForensics personnel during August 18-29, 2016. A solution containing 3DMe and CRS was batched mixed in 300-gallon totes and injected using air-powered diaphragm pumps. BDI was then added separately through tubing placed down the injection point below the water table. Following the BDI, water was injected to push the products out into the formation. Injection pressure and rate were monitored continuously. The design volume of solution and chase water for each injection point varied by depth and location at the Site. The design volume was successfully applied at each injection point. Full-scale injection data are summarized on **Table 2**.

4.3 Performance Monitoring

The performance monitoring program is summarized on **Table 1** and discussed in Section 3.3. The first post-injection monitoring event was conducted during October 2016. The initial geochemical measurements indicate that conditions favorable for biodegradation have been established in the aquifer due to injections. Oxidation-reduction potential (ORP) readings ranged from -28 to -107 millivolts (mV) in source area monitoring wells MW-1 through MW-4. Dissolved oxygen readings in the same wells ranged from 0.00 to 0.58 milligrams per liter

(mg/L), indicating a generally anaerobic environment needed for dehalococcoides bacteria to thrive.

The initial VOC monitoring results are presented in the laboratory reports in **Appendix K**. Contaminant concentration trends at near-source monitoring wells MW-1, MW-3, MW-4, and MW-9 are depicted on the graphs in **Appendix L**. The timing of remedial actions is also shown on the figures for reference. The remedial actions appear to have accelerated the rate of PCE degradation in recent months. TCE and cis-1,2-DCE are now detected at elevated concentrations at MW-3 and MW-4 due to the dechlorination of PCE by dehalococcoides bacteria. MW-3 and MW-4 are the closest monitoring wells to remedial injection points. Similar trends in the concentrations of PCE and degradation compounds are anticipated at monitoring wells further from the injection points as the injected materials propagate and alter conditions in other areas of the aquifer.

Significant reductions in groundwater contaminant concentrations have been observed in most near-site monitoring wells since remedial actions were implemented. Percent reductions in PCE concentrations at monitoring wells MW-1 through MW-9 were calculated by taking the difference between October 2016 concentrations and the average of pre-remedial concentrations. (A sample was not collected from MW-6 in October 2016 so a percent reduction could not be calculated). With the exception of MW-2, all monitoring wells have exhibited a PCE concentration decrease of at least 63%. Four (4) monitoring wells (MW-1, MW-4, MW-5, and MW-8) have shown decreases of more than 90%.

4.3.1 Methane Production

Methane may be produced via the biodegradation of VOCs. However, the treatment zone is 50 feet below ground, which would inhibit the potential for vapors to reach occupied structures. Almost all properties near the Site have been assessed for vapor intrusion, and mitigation systems have been installed at many structures. Finally, the SVE system has been operating during full-scale implementation of the injection program. Based on the Site conditions and systems installed to prevent vapor impacts, the likelihood of methane exposure is extremely low. As confirmation, methane monitoring was conducted during October 2016. Methane measurements were collected at several source area monitoring wells using a portable gas analyzer. Methane was not detected in any of the monitoring wells.

5.0 CONCLUSIONS

The implemented remedial actions were designed to address impacts in unconsolidated soil, vadose zone bedrock, and groundwater in fractured bedrock. Since startup in January 2016, the SVE system has been very effective in removing contaminant mass from soil and vadose zone bedrock. In addition, the SVE system has interrupted vapor transport mechanisms and has likely enhanced mitigation of the vapor exposure pathway in nearby structures. Groundwater remediation is being accomplished by treating the source area with ERD methods and reducing PCE mass loading to the downgradient plume. In-situ reduction will continue to occur through contaminant capture and biodegradation.

TABLES



TABLE 1
REMEDIATION PERFORMANCE MONITORING PROGRAM

Klinke Cleaners - Monona Drive
 Madison, Wisconsin

Parameter	VOCs	Diss. Gases	Dehalococoides	Total Mn+Fe	Diss. Mn+Fe	Diss. Fe	Sulfate	Nitrate	TOC	Alkalinity	
Sampling Frequency ¹											
Barrier Wall	MW-4	a	b		c	c		c	c	c	c
	MW-5	b									
	MW-8	a	b		c	c		c	c	c	c
	MW-9 ²	a	b		c	c		c	c	c	c
	Total # of Samples	15	7	0	4	4	0	4	4	4	4
Source Area	MW-1	a	b	b	c		c	c	c		
	MW-2	a	b								
	MW-3	a	b	b			c	c	c		
	MW-7	a	b				c	c	c		
	CMT-3-2	a	b								
	CMT-3-3	b									
	CMT-11-2	a	b								
	CMT-11-3	b									
	CMT-12-2	a	b								
	CMT-12-3	b									
Total # of Samples	34	14	4	1	0	3	3	3	0	0	

Notes:

A total of four monitoring events are proposed

¹ a = Every monitoring event

b = Every other monitoring event

c = Single monitoring event approximately 6 months after full scale implementation

² MW-9 will be sampled for all parameters one additional time to evaluate the first phase of barrier wall implementation

Methane monitoring will be performed at select well heads using a portable meter

TABLE 2
SOURCE AREA INJECTION SUMMARY

Klinke Cleaners
4518 Monona Drive, Madison, Wisconsin

Injection Point	Date	Batch #	Product	Product Volume in Batch (gallons)	Start Time	End Time	Injection Pressure start/finish (psi)	Batch Volume Injected (gallons)	Injection Rate (gpm)	Cumulative Volume Injected (gallons)
IP-2a	8/19/16	1	3DMe	80	955	1050	10-7	263	4.8	263
			CRS	23						
			Water	160						
	8/19/16	2	3DMe	80	1101	1158	9-10	263	4.6	526
			CRS	23						
			Water	160						
	8/19/16	3	3DMe	80	1215	1404	3-9	263	2.5	789
CRS			23							
Water			160							
IP-2b	8/19/16	1	3DMe	72	945	1049	9-20	239	3.7	239
			CRS	23						
			Water	144						
	8/19/16	2	3DMe	72	1050	1157	5-20	239	3.6	478
			CRS	23						
			Water	144						
	8/19/16	3	3DMe	72	1219	1318	20-13	239	4.1	717
CRS			23							
Water			144							
8/19/16	4	3DMe	72	1332	1418	20-21	239	5.2	956	
		CRS	23							
		Water	144							
IP-3a	8/22/16	1	3DMe	80	1152	1315	80-1	263	3.2	263
			CRS	23						
			Water	160						
	8/22/16	2	3DMe	80	1450	1515	2-0	263	10.5	526
			CRS	23						
			Water	160						
	8/22/16	3	3DMe	80	1523	1547	0-0	263	11.0	789
CRS			23							
Water			160							
IP-3b	8/22/16	1	3DMe	72	1152	1210	0-35	239	13.3	239
			CRS	23						
			Water	144						
	8/22/16	2	3DMe	72	1218	1331	25-3	239	3.3	478
			CRS	23						
			Water	144						
	8/22/16	3	3DMe	72	1450	1528	3-2	239	6.3	717
CRS			23							
Water			144							
8/22/16	4	3DMe	72	1540	1611	0-0	239	7.7	956	
		CRS	23							
		Water	144							
IP-4a	8/24/16	1	3DMe	54	1457	1537	95-0	180	4.5	180
			CRS	23						
			Water	103						
	8/24/16	2	3DMe	54	1547	1619	12-0	180	5.6	360
			CRS	23						
			Water	103						
	8/24/16	3	3DMe	34	1659	1727	3-0	139	5.0	499
CRS			23							
Water			82							
IP-4a	8/29/16	4	BDI	0.2	NA	1050	NA	0.2	NA	499
	8/29/16	5	Water	240	1056	1127	10-7	240	7.7	739
	8/29/16	6	Water	70	1128	1133	5-2	70	14.0	809

TABLE 2
SOURCE AREA INJECTION SUMMARY

Klinke Cleaners
4518 Monona Drive, Madison, Wisconsin

Injection Point	Date	Batch #	Product	Product Volume in Batch (gallons)	Start Time	End Time	Injection Pressure start/finish (psi)	Batch Volume Injected (gallons)	Injection Rate (gpm)	Cumulative Volume Injected (gallons)
IP-4b	8/24/16	1	3DMe	53	1457	1626	95-85	172	5.9	172
			CRS	23						
			Water	96						
	8/24/16	2	3DMe	53	1702	1715	15-11	172	13.2	344
			CRS	23						
			Water	96						
	8/24/16	3	3DMe	38	1718	1730	15-13	147	12.3	491
			CRS	23						
			Water	86						
	8/24/16	4	3DMe	38	1734	1759	10-8	147	5.9	638
CRS			23							
Water			86							
8/29/16	5	BDI	0.3	NA	1042	NA	0.3	NA	638	
8/29/16	6	Water	225	1056	1109	0-0	225	17.3	863	
8/29/16	7	Water	180	1110	1119	0-0	180	20.0	1043	
IP-5a	8/24/16	1	3DMe	54	1030	1055	0-0	180	7.2	180
			CRS	23						
			Water	103						
	8/24/16	2	3DMe	54	1103	1132	0-0	180	6.2	360
			CRS	23						
			Water	103						
	8/24/16	3	3DMe	54	1142	1210	0-0	180	6.4	540
			CRS	23						
			Water	103						
	8/26/16	4	BDI	0.2	NA	1230	NA	0.2	NA	540
8/26/16	5	Water	240	1256	1340	0-0	240	5.5	780	
8/26/16	6	Water	70	1341	1357	0-0	70	5.4	850	
IP-5b	8/24/16	1	3DMe	53	1150	1200	0-0	172	17.2	172
			CRS	23						
			Water	96						
	8/24/16	2	3DMe	53	1205	1216	0-0	172	15.6	344
			CRS	23						
			Water	96						
	8/24/16	3	3DMe	53	1225	1235	0-0	172	17.2	516
			CRS	23						
			Water	96						
	8/24/16	4	3DMe	53	1253	1305	0-0	172	14.3	688
CRS			23							
Water			96							
8/26/16	5	BDI	0.3	NA	1240	NA	0.3	NA	688	
8/26/16	6	Water	225	1256	1312	0-0	225	14.1	913	
8/26/16	7	Water	180	1313	1324	0-0	180	16.4	1093	
IP-6a	8/18/16	1	3DMe	80	1010	1037	0-0	263	9.7	263
			CRS	23						
			Water	160						
	8/18/16	2	3DMe	80	1103	1128	0-0	263	10.5	526
			CRS	23						
			Water	160						
	8/18/16	3	3DMe	80	1200	1230	0-0	263	8.8	789
			CRS	23						
			Water	160						
	8/26/16	4	BDI	0.2	NA	1120	NA	0.2	NA	789
8/26/16	5	Water	240	1124	1201	0-0	240	8.9	1029	
8/26/16	6	Water	240	1203	1245	0-0	240	5.7	1269	
IP-6b	8/18/16	1	3DMe	72	1010	1047	0-3	239	6.5	239
			CRS	23						
			Water	144						
	8/18/16	2	3DMe	72	1117	1140	1-1	239	10.4	478
			CRS	23						
			Water	144						
	8/18/16	3	3DMe	72	1227	1303	4-3	239	6.6	717
			CRS	23						
			Water	144						
	8/18/16	4	3DMe	72	1318	1340	5-0	239	10.9	956
CRS			23							
Water			144							
8/26/16	5	BDI	0.3	NA	1115	NA	0.3	NA	956	
8/26/16	6	Water	225	1124	1138	0-0	225	16.1	1181	
8/26/16	7	Water	225	1139	1153	0-0	225	16.1	1406	
8/26/16	8	Water	125	1154	1202	0-0	125	15.6	1531	

TABLE 2
SOURCE AREA INJECTION SUMMARY

Klinke Cleaners
4518 Monona Drive, Madison, Wisconsin

Injection Point	Date	Batch #	Product	Product Volume in Batch (gallons)	Start Time	End Time	Injection Pressure start/finish (psi)	Batch Volume Injected (gallons)	Injection Rate (gpm)	Cumulative Volume Injected (gallons)
IP-7a	8/23/16	1	3DMe	80	900	915	0-0	263	17.5	239
			CRS	23						
			Water	160						
	8/23/16	2	3DMe	80	948	1022	0-0	263	7.7	502
			CRS	23						
			Water	160						
	8/23/16	3	3DMe	80	1047	1123	0-0	263	7.3	789
CRS			23							
Water			160							
8/29/16	4	BDI	0.2	NA	907	NA	0.2	NA	789	
8/29/16	5	Water	240	913	948	5-5	240	6.9	1029	
8/29/16	6	Water	240	948	1022	5-4	240	7.1	1269	
IP-7b	8/23/16	1	3DMe	72	901	939	0-0	239	6.3	263
			CRS	23						
			Water	144						
	8/23/16	2	3DMe	72	943	1011	5-0	239	8.5	502
			CRS	23						
			Water	144						
	8/23/16	3	3DMe	72	1038	1109	3-0	239	7.7	741
			CRS	23						
Water			144							
8/23/16	4	3DMe	72	1223	1254	0-0	239	7.7	956	
		CRS	23							
		Water	144							
8/29/16	5	BDI	0.3	NA	900	NA	0.3	NA	956	
8/29/16	6	Water	225	913	932	0-3	225	11.8	1181	
8/29/16	7	Water	225	933	946	3-5	225	17.3	1406	
8/29/16	8	Water	125	946	1006	3-0	125	6.3	1531	
IP-8a	8/23/16	1	3DMe	80	1436	1516	0-0	263	6.6	263
			CRS	23						
			Water	160						
	8/23/16	2	3DMe	80	1524	1606	0-0	263	6.3	526
			CRS	23						
			Water	160						
8/23/16	3	3DMe	80	1611	1658	0-0	263	5.6	789	
		CRS	23							
		Water	160							
8/29/16	4	BDI	0.2	NA	735	NA	0.2	NA	789	
8/29/16	5	Water	240	754	838	0-0	240	5.5	1029	
8/29/16	6	Water	240	838	850	0-0	240	20.0	1269	
IP-8b	8/23/16	1	3DMe	72	1436	1507	0-0	239	7.7	239
			CRS	23						
			Water	144						
	8/23/16	2	3DMe	72	1511	1530	0-0	239	12.6	478
			CRS	23						
			Water	144						
	8/23/16	3	3DMe	72	1632	1652	0-0	239	12.0	717
			CRS	23						
Water			144							
8/23/16	4	3DMe	72	1658	1715	0-0	239	14.1	956	
		CRS	23							
		Water	144							
8/29/16	5	BDI	0.3	NA	745	NA	0.3	NA	956	
8/29/16	6	Water	225	755	809	0-0	225	16.1	1181	
8/29/16	7	Water	225	809	823	0-0	225	16.1	1406	
8/29/16	8	Water	125	823	831	0-0	125	15.6	1531	
IP-9a	8/17/16	1	3DMe	80	1050	1107	0-3	263	15.5	263
			CRS	23						
			Water	160						
	8/17/16	2	3DMe	80	1205	1221	0-0	263	16.4	526
			CRS	23						
			Water	160						
8/17/16	3	3DMe	80	1400	1415	0-0	263	17.5	789	
		CRS	23							
		Water	160							
8/25/16	4	BDI	0.2	NA	1240	NA	0.2	NA	789	
8/25/16	5	Water	240	1245	1256	0-0	240	21.8	1029	
8/25/16	6	Water	240	1257	1310	0-0	240	18.5	1269	

TABLE 2
SOURCE AREA INJECTION SUMMARY

Klinke Cleaners
4518 Monona Drive, Madison, Wisconsin

Injection Point	Date	Batch #	Product	Product Volume in Batch (gallons)	Start Time	End Time	Injection Pressure start/finish (psi)	Batch Volume Injected (gallons)	Injection Rate (gpm)	Cumulative Volume Injected (gallons)
IP-9b	8/17/16	1	3DMe	72	1050	1111	15-0	239	11.4	239
			CRS	23						
			Water	144						
	8/17/16	2	3DMe	72	1205	1225	0-0	239	12.0	478
			CRS	23						
			Water	144						
	8/17/16	3	3DMe	72	1300	1327	4-0	239	8.9	717
			CRS	23						
			Water	144						
8/17/16	4	3DMe	72	1413	1453	6-8	239	6.0	956	
		CRS	23							
		Water	144							
8/25/16	5	BDI	0.3	NA	1220	NA	0.3	NA	956	
8/25/16	6	Water	225	1245	1320	6-15	225	6.4	1181	
8/25/16	7	Water	225	1321	1352	15-0	225	7.3	1406	
8/25/16	8	Water	125	1353	1423	0-0	125	4.2	1531	
IP-10a	8/17/16	1	3DMe	80	1615	1634	0	263	13.8	263
			CRS	23						
			Water	160						
	8/17/16	2	3DMe	80	1652	1709	0	263	15.5	526
			CRS	23						
			Water	160						
	8/17/16	3	3DMe	80	1754	1819	0	263	10.5	789
CRS			23							
Water			160							
8/25/16	4	BDI	0.2	NA	1455	NA	0.2	NA	789	
8/25/16	5	Water	240	1502	1517	0-0	240	16.0	1029	
8/25/16	6	Water	240	1518	1534	0-0	240	15.0	1269	
IP-10b	8/17/16	1	3DMe	72	1615	1637	0-0	239	10.9	239
			CRS	23						
			Water	144						
	8/17/16	2	3DMe	72	1657	1721	0-0	239	10.0	478
			CRS	23						
			Water	144						
	8/17/16	3	3DMe	72	1754	1818	1-0	239	10.0	717
			CRS	23						
			Water	144						
8/17/16	4	3DMe	72	1827	1846	0-0	239	12.6	956	
		CRS	23							
		Water	144							
8/25/16	5	BDI	0.3	NA	1445	NA	0.3	NA	956	
8/25/16	6	Water	225	1502	1535	0-0	225	6.8	1181	
8/25/16	7	Water	225	1536	1553	0-0	225	13.2	1406	
8/25/16	8	Water	125	1554	1602	0-0	125	15.6	1531	

Notes:

3DMe = 3-D Microemulsion

BDI = Bio-Dechlor Inoculum Plus

CRS = Chemical Reducing Solution








gpm = gallons per minute

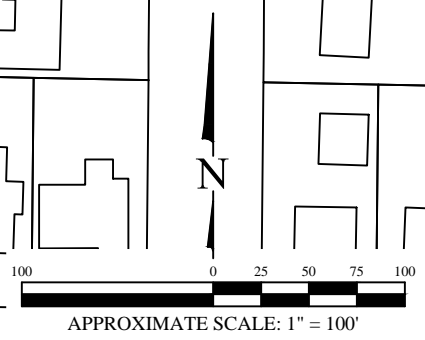
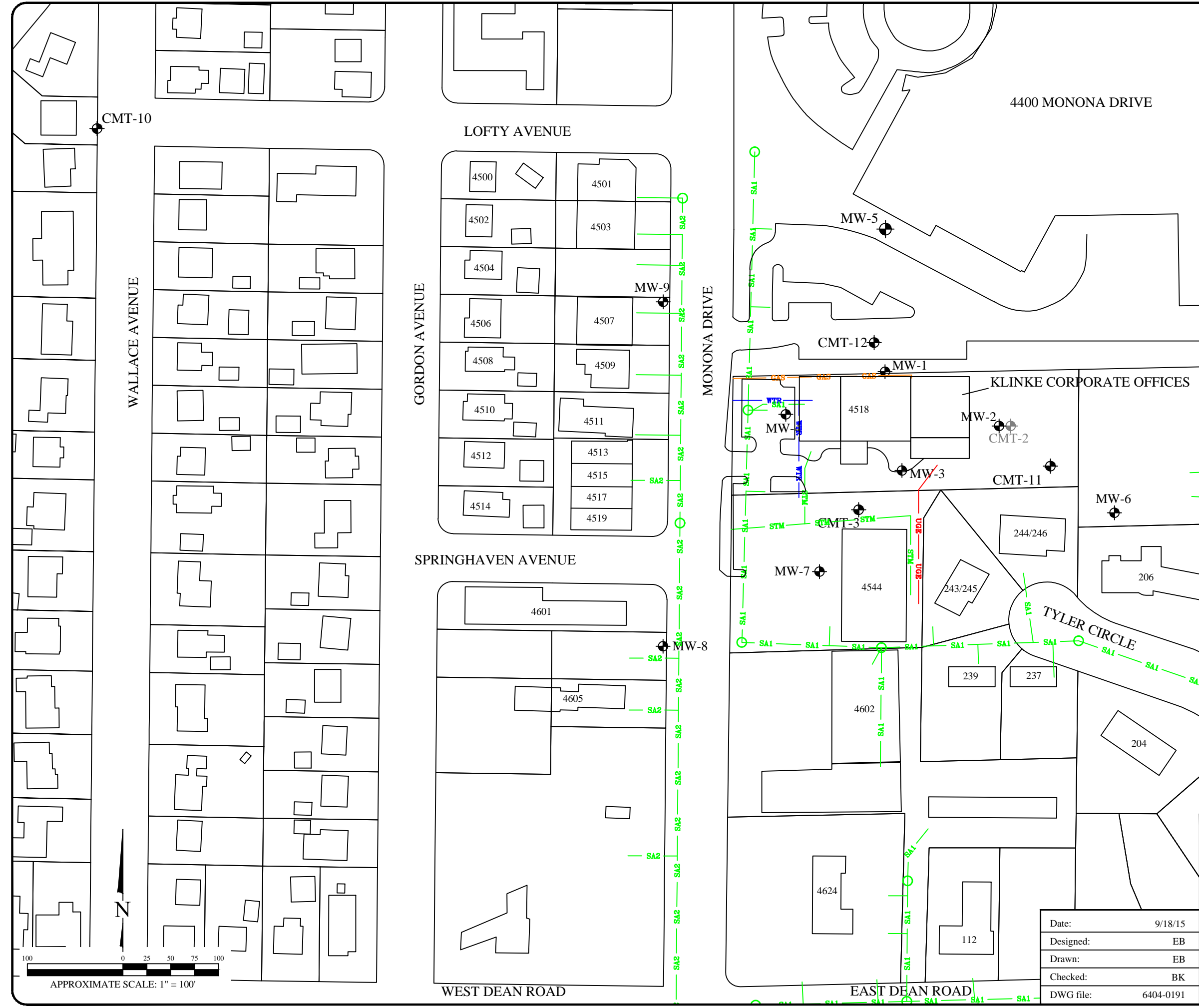
NA = Not applicable. BDI was added directly to water column separately under zero pressure.

psi = pounds per square inch

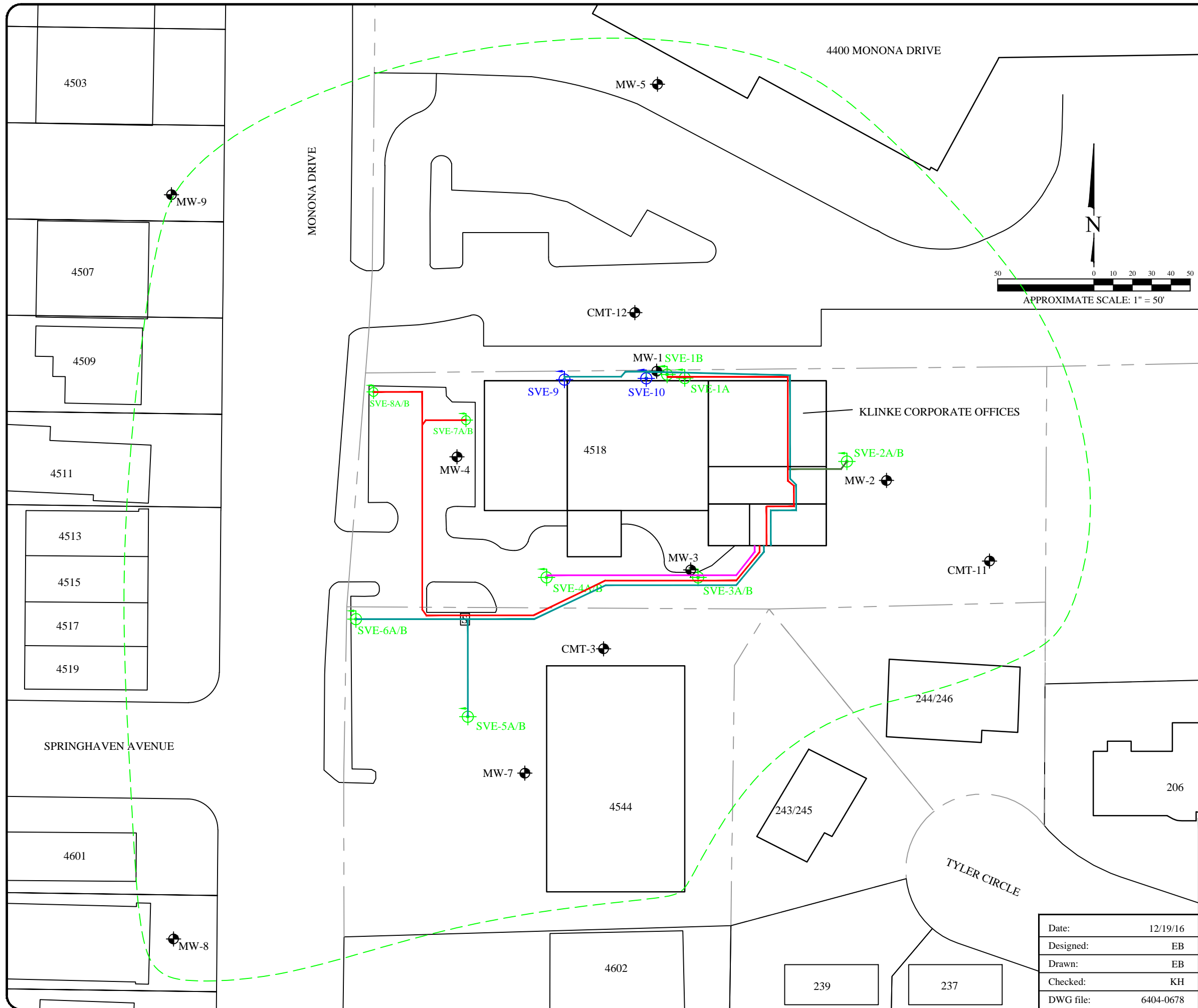
FIGURES

Legend

- MW-1  Monitoring Well Location
-  SA1 City of Madison Sanitary Sewer
-  SA2 City of Monona Sanitary Sewer
-  GAS Underground gas utility line
-  WTR Underground water utility line
-  STM Underground storm utility line
-  UGE Underground electrical utility line

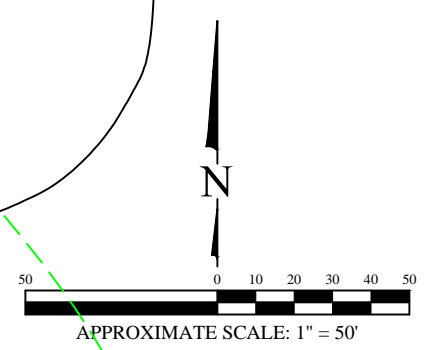


SITE LAYOUT MAP		 ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC. 602 N. Capitol Ave., Ste. 210 • Indianapolis, IN 46204 EnviroForensics.com	Figure
Klinke Cleaners 4518 Monona Dr. Madison, WI			1
Date:	9/18/15	ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC. 602 N. Capitol Ave., Ste. 210 • Indianapolis, IN 46204 EnviroForensics.com	Project
Designed:	EB		6404
Drawn:	EB		
Checked:	BK		
DWG file:	6404-0191		



Legend

- Property boundary
- Underground SVE piping
- SVE bedrock well zone of influence
- SVE wells - bedrock nest
(One 4-inch SVE well screened 10-25 ft. One 4-inch SVE well screened 30-45 ft.)
- SVE wells - overburden well
(One 4-inch SVE well screened 5 feet above bedrock)
- MW-1 Monitoring Well Location
- Sump



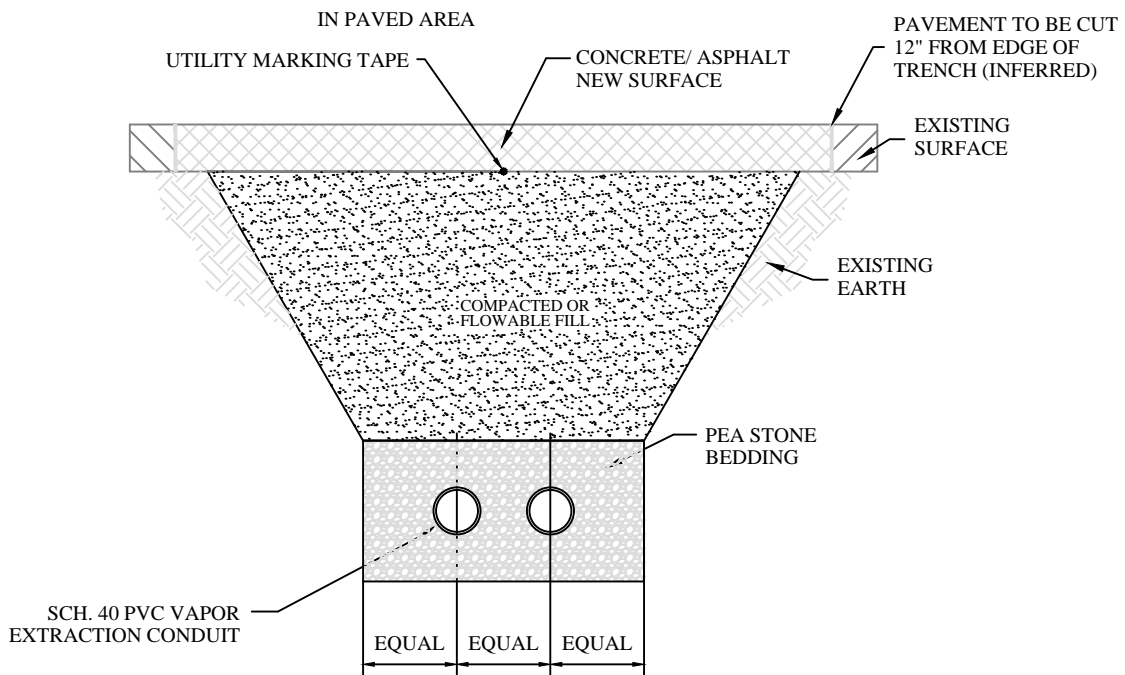
REMEDIATION SYSTEM LAYOUT

Klinke Cleaners
4518 Monona Dr.
Madison, WI

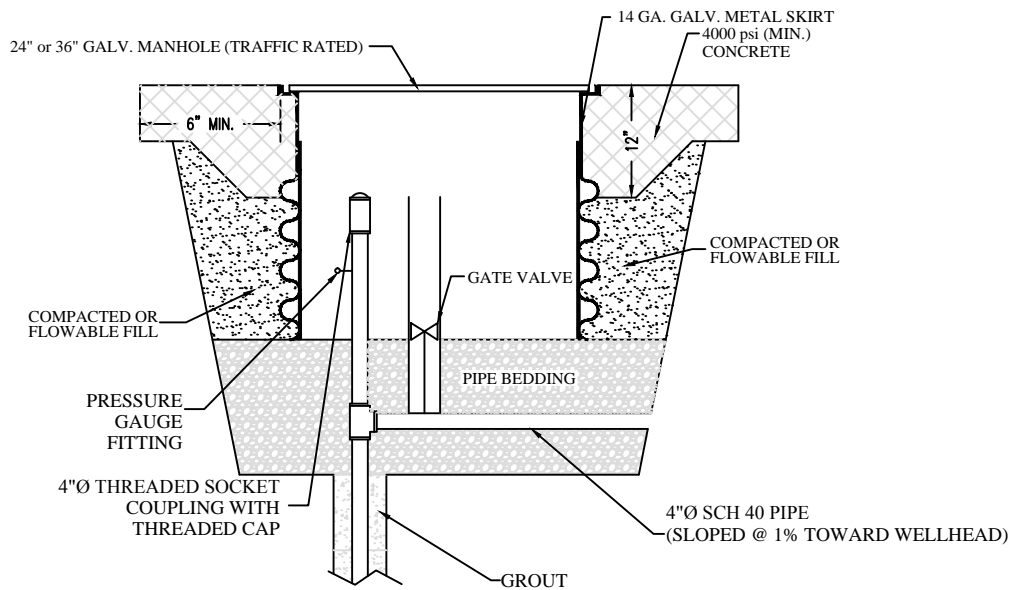
Date:	12/19/16
Designed:	EB
Drawn:	EB
Checked:	KH
DWG file:	6404-0678

ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure	2
Project	6404



SVE WELLHEAD



No.	Date	Revision	Approved

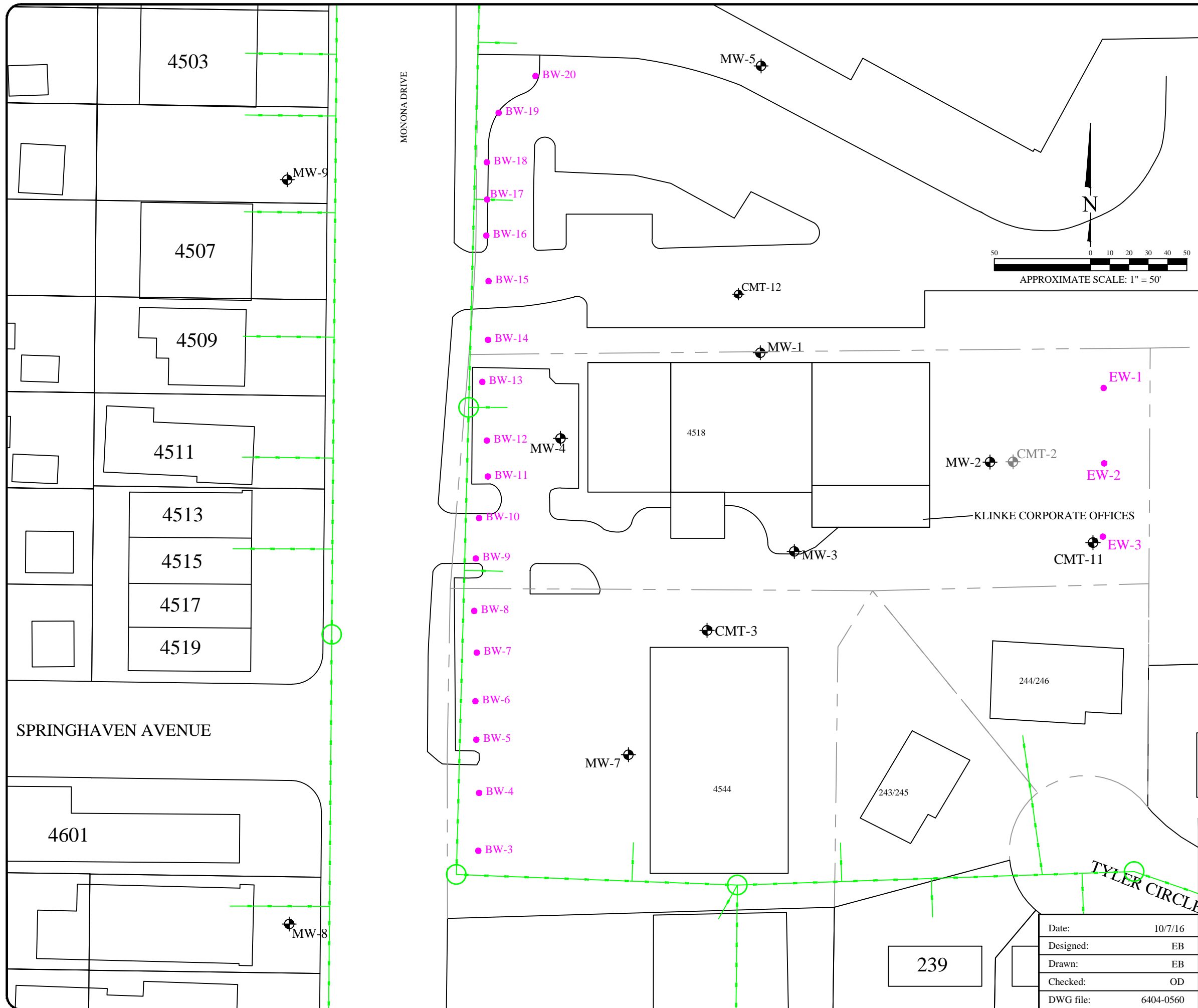
ENVIROforensics
 ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
 825 North Capitol Avenue • Indianapolis, IN 46204
 EnviroForensics.com

Date:	12/1/16
Designed:	EB
Drawn:	EB
Checked:	OD
DWG file:	6404-0041

TRENCH AND WELLHEAD DETAILS

Klinke Cleaners
 4518 Monona Dr.
 Madison, WI

Figure	3
Project	6404



- ### Legend
- Property boundary
 - City of Madison Sanitary Sewer
 - City of Monona Sanitary Sewer
 - MW-1 Monitoring well Location
 - CMT-2 Destroyed monitoring well location
 - EW-1, BW-3 Injection point location

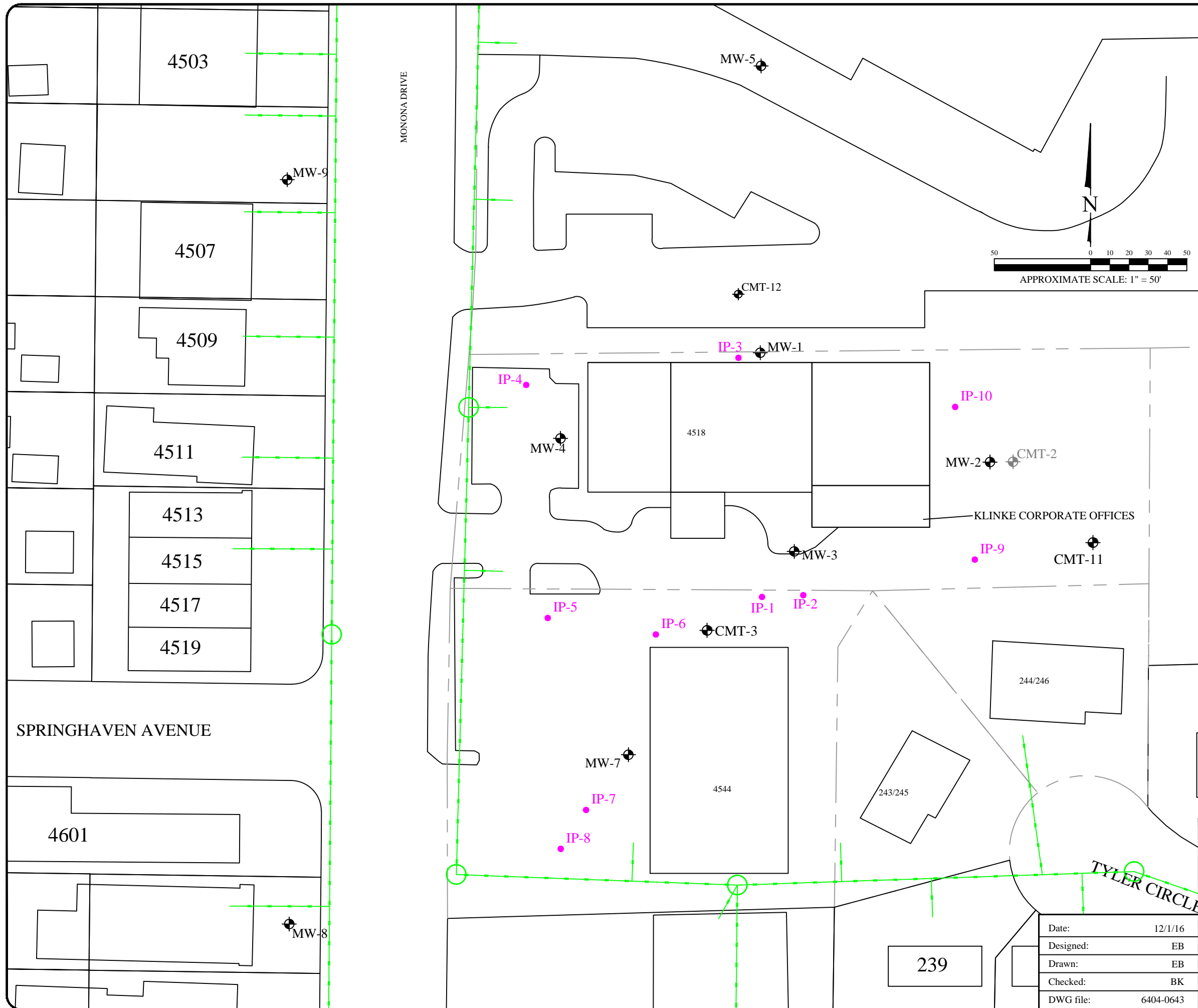
BARRIER WALL INJECTION POINT LOCATIONS

Klinke Cleaners
 4518 Monona Dr.
 Madison, WI

Date:	10/7/16
Designed:	EB
Drawn:	EB
Checked:	OD
DWG file:	6404-0560

ENVIROforensics
 ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
 825 North Capitol Avenue • Indianapolis, IN 46204
 EnviroForensics.com

Figure	4
Project	6404



Legend

- Property boundary
- City of Madison Sanitary Sewer
- City of Monona Sanitary Sewer
- MW-1 Monitoring well Location
- CMT-2 Destroyed monitoring well location
- IP-1 Injection point location

SOURCE AREA INJECTION POINT LOCATIONS

Klinke Cleaners
 4518 Monona Dr.
 Madison, WI

Date:	12/1/16
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6404-0643

ENVIROforensics
 ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
 825 North Capitol Avenue • Indianapolis, IN 46204
 EnviroForensics.com

Figure	5
Project	6404



APPENDIX A

Hydrogeological Assessment and Soil Vapor Extraction Pilot Study Report



**HYDROGEOLOGIC ASSESSMENT AND SOIL VAPOR EXTRACTION
PILOT STUDY REPORT**

**KLINKE CLEANERS
4518 MONONA DRIVE
MADISON, WISCONSIN 53716
WDNR BRRTS# 02-13-551928
FID# 049027584**

April 10, 2015

Prepared For:

Klinke Clothing Care, Inc.
4518 Monona Drive
Madison, Wisconsin 53716

Prepared By:

Environmental Forensic Investigations, Inc.
602 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 972-7870
www.enviroforensics.com

A handwritten signature in blue ink, appearing to read "Oran Day", on a light blue background.

Oran Day
Project Geological Engineer

A handwritten signature in blue ink, appearing to read "Andrew D. Horwath", on a light blue background.

Andrew Horwath, P.E.
Senior Engineer

A handwritten signature in blue ink, appearing to read "Brad Lewis", on a light blue background.

Brad Lewis
Senior Project Manager

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2.0 INITIAL SCREENING OF SVE EFFECTIVENESS.....	2
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1	Hydraulic Conductivity and Intrinsic Permeability
2	Monitoring Point Construction Information
3	SVE Pilot Study Testing Regime
4	SVE Pilot Study System Data
5	SVE Pilot Study Subsurface Data
6	SVE Pilot Study Mass Removal Estimates

FIGURES

1	Site Location Map
2	SVE Pilot Test Vacuum Distribution
3	Process and Instrumentation Legend
4	SVE Pilot System Process and Instrumentation Diagram

CHARTS

1	Extraction Regime and Organic Vapor Concentrations
2	Subsurface Vacuum Data

APPENDICES

- A Slug Test Results
- B Boring Logs
- C Laboratory Report

EXECUTIVE SUMMARY

Environmental Forensic Investigations, Inc. (EnviroForensics) has prepared this Soil Vapor Extraction Pilot Study Report on behalf of Klinke Clothing Care, Inc. (Klinke Cleaners) for the property located at 4518 Monona Drive in Madison, Wisconsin (Site). A soil vapor extraction (SVE) pilot study has been performed to identify the feasibility of SVE for remediation of tetrachloroethene impacted bedrock at the Site and to:

- Evaluate whether significant contaminant mass is held in the unsaturated (above capillary fringe) sandstone bedrock;
- Collect data on how readily fluids (air, water, remediation fluids) might move through the bedrock; and
- Collect vacuum and flow rate data to evaluate the possible future use of SVE as a remedial approach.

The pilot study included installation of one (1) SVE well and one (1) vapor monitoring point to facilitate pilot testing. A two (2) day pilot test was performed, with applied vacuum incrementally increased during testing to gauge subsurface response to applied vacuum. Applied vacuums, subsurface vacuums, extraction flow rates, and extraction gas concentrations were analyzed.

Results indicate that SVE is a viable remedial alternative for the bedrock impacts. The results also indicate that residual tetrachloroethene mass is contained in the bedrock, and removal of this mass is likely necessary to effectively address ongoing impacts to groundwater and soil vapor in the vicinity of the Site. The results also indicate that the sandstone bedrock will conduct air and remediation fluids. It is recommended that SVE be included as a remedial alternative in a detailed remedial feasibility analysis prior to implementing additional remediation at the Site.

1.0 INTRODUCTION

Environmental Forensic Investigations, Inc. (EnviroForensics) has prepared this Soil Vapor Extraction Pilot Study Report on behalf of Klinke Clothing Care, Inc. (Klinke Cleaners) for the property located at 4518 Monona Drive in Madison, Wisconsin (Site). The general Site location is depicted on **Figure 1**.

Site geology includes 7 to 11 feet of unconsolidated sediment overlying Cambrian sandstones and dolostones. The unconsolidated unit near the Site building consists primarily of silt and clay, with sand and gravel present at some locations below 4 feet below ground surface (bgs). Other areas investigated indicate both fill material and fine, silty sands to the top of bedrock. Underlying the unconsolidated sediment is the Jordan Formation, which is comprised of poorly-cemented silty sandstone that transitions into dolomitic siltstone. The Jordan Formation is encountered at roughly 7 to 11 feet bgs and terminates between 16 and 46 feet bgs. The Lone Rock Formation underlies the Jordan Formation and consists of reddish to yellow sandstone with interbedded siltstone and glauconitic attributes. The base of the Lone Rock Formation transitions into the Wonewoc Formation at depths ranging from 110 to 130 feet bgs. The Wonewoc Formation consists of another reddish, glauconitic fine-grained dolomitic sandstone that extends to the termination of the Site borings.

Contaminants of Concern (COCs) include those constituents related to former Site activities which were detected in subsurface media samples, specifically: tetrachloroethene (PCE) and its degradation products, including trichloroethene (TCE). COCs have been detected in soil and bedrock at and within the immediate vicinity of the Site. COCs have been detected in groundwater to a depth of 200 feet at the Site and have been detected up to 1,300 feet downgradient from the Site. COCs have also been detected in soil gas, sub-slab, and indoor air samples collected from the immediate vicinity of the Site.

An excavation was performed in 2010 during which 264 tons of soil were removed to remediate the unconsolidated unit beneath the on-Site building. Soil vapor extraction (SVE) has been identified as a potentially viable remedial option for unsaturated bedrock impacts at the Site. SVE has also been identified as an option for qualitatively evaluating the magnitude of COC impacts to bedrock at the Site. This report presents the results of an SVE pilot study performed and conclusions regarding the feasibility of this option for Site remediation.

2.0 INITIAL SCREENING OF SVE EFFECTIVENESS

Prior to conducting SVE pilot testing activities, a preliminary screening of SVE effectiveness was performed. SVE involves inducing airflow in the subsurface with an applied vacuum extraction, enhancing the in-situ volatilization of contaminants and capture of vapors. The SVE process uses the volatility of the contaminants to allow mass transfer from adsorbed and dissolved phases in soil and bedrock to the vapor phase, where it is removed under vacuum and discharged to the atmosphere, or treated prior to discharge depending on vapor concentrations. The purpose of SVE remediation at the Site would be to capture vapors present in the subsurface sandstone bedrock by inducing air flow within the vadose zone.

The basic phenomena that govern the performance of vapor extraction technology are very simple and easily described. The mechanisms that influence the success of SVE can be grouped into the following categories:

- Mass transfer considerations that influence and limit the partitioning of the contaminants into the vapor phase; and
- Airflow characteristics in the unsaturated zone.

2.1 Vapor Phase Partitioning

SVE is applicable when the contaminants present in the subsurface are volatile. As a simplified guideline, a compound or mixture of compounds is a likely candidate for SVE application if it has both of these characteristics:

- Vapor pressure of 1.0 millimeters mercury (mmHg) or more at 20 °C (degrees Celsius); and
- Henry's law constant greater than 0.001 atm × m³/mole (atmospheres times cubic meters per mole).

The primary Site contaminants PCE and TCE both meet these criteria, as shown in the following table:

Contaminant	Vapor pressure at 20 °C (mmHg)	Henry's law constant (atm × m ³ /mole)
Trichloroethene	69	0.0103
Tetrachloroethene	14	0.023

2.2 Airflow Characteristics in the Unsaturated Zone

Prior to initiating pilot testing activities, hydraulic slug testing was conducted to determine the hydraulic conductivity of the upper sandstone bedrock. This hydraulic conductivity was used as a proxy for the potential efficacy of SVE considering airflow characteristics of the unsaturated zone. A United States (U.S.) Environmental Protection Agency (EPA) publication¹ states that “[A]t sites where the soils in the saturated zone are similar to those within the unsaturated zone, hydraulic conductivity of the soils may be used to estimate the permeability of the soils”. It further indicates that SVE is generally effective when intrinsic permeability is greater than 10^{-8} centimeters squared (cm^2), and may be effective but requires further evaluation when intrinsic permeability is between 10^{-8} and 10^{-10} cm^2 .

Rising-head slug tests were performed at wells MW-1, MW-2 and MW-3. Each well was screened across the water table at the time of testing. A disposable bailer was used to extract a volume of water from the well and initiate the test, and a pressure transducer was used to record the relative pressure head in the well throughout the test. The data was analyzed by charting the displacement of water in the well over time and matching the rebound curve to known solutions to calculate the hydraulic conductivity of the aquifer.

The Dagan solution to the unconfined aquifer model resulted in hydraulic conductivities for the wells at 1.28×10^{-4} feet per second at MW-1, 1.88×10^{-4} feet per second at MW-2, and 1.48×10^{-4} feet per second at MW-3 (summarized in **Table 1**). The charts and solution information are provided in **Appendix A**.

The hydraulic conductivities calculated at each well are in good agreement, and an average hydraulic conductivity has been assigned to the upper sandstone bedrock unit of 1.55×10^{-4} feet per second. Per Freeze and Cherry², this hydraulic conductivity corresponds to an intrinsic permeability of 4.78×10^{-8} cm^2 . As indicated above, this intrinsic permeability is on the margin between indicating that SVE is generally effective and indicating SVE may be effective but requires further evaluation.

¹ *How To Evaluate Alternative Cleanup Technologies For Underground Storage Tank Sites: A Guide For Corrective Action Plan Reviewers, Chapter II*. U.S. EPA. 1994

² *Groundwater, Table 2.2*. R. Allen Freeze and John A. Cherry. 1979.

3.0 SVE PILOT STUDY ACTIVITIES

Pilot study activities performed included SVE well and monitoring point installation, SVE pilot testing, and analysis of the SVE pilot test data. This section provides a summary of those activities.

3.1 SVE Pilot Study Well Installation

In December of 2014 EnviroForensics mobilized to the Site and installed one (1) SVE pilot study well, SVE-1, and one (1) vapor monitoring point, VP-1. The locations of the SVE well and vapor monitoring point are depicted on **Figure 2**.

SVE-1 was constructed of 4-inch diameter, Schedule 40 PVC, with a 0.040-inch slotted Vee-Wire[®] well screen from 30 to 45 feet bgs. The annular space surrounding SVE-1 was backfilled with pea gravel to 28 feet bgs. Hydrated bentonite chips were installed above the pea gravel to 18 feet bgs, and bentonite-cement grout was installed above the bentonite chips to 2 feet bgs. Following installation, the SVE well was finished at grade with a 2-foot by 2-foot steel vault set in a concrete pad.

VP-1 was installed approximately 4 feet from SVE-1 to gauge SVE vacuum in the immediate vicinity of the SVE well. VP-1 was constructed of 1-inch diameter, Schedule 40 PVC, with a 0.020-inch slotted well screen from 35 to 40 feet bgs. The annular space surrounding VP-1 was backfilled with pea gravel to 33 feet bgs. Hydrated bentonite chips were installed above the pea gravel to 21 feet bgs, with bentonite-cement grout installed above the bentonite chips to 2 feet bgs. Following installation, the vacuum monitoring point was finished at grade with a 1-foot diameter steel vault set in a concrete pad.

Bedrock was encountered at 8 feet bgs in the drilling area. Boring logs are provided in **Appendix B**. Construction information for the SVE well and vapor monitoring point, as well as other existing monitoring wells used during the pilot study, is provided in **Table 2**.

3.2 SVE Pilot Test Implementation

SVE testing was performed on January 14 and 15, 2015 using a mobile, claw-type, positive displacement blower capable of producing 300 inches water column (inH₂O) and 180 actual feet per minute (ACFM) flow rate. The blower was piped to the SVE well using 3-inch flexible hosing. A process and instrumentation diagram for the complete extraction system is depicted on **Figures 3 and 4**.

Approximately 28 hours of continuous testing was performed over the course of four (4) testing steps (Steps 1 through 4), with applied vacuum and flow rate varied for each step by adjusting dilution air volume in the blower influent. Wellhead vacuum was increased during each step at 27, 82, 129, and 177 inH₂O. A summary of each step and the applied vacuum, as measured at the extraction system and the SVE wellhead, is included as **Table 3**.

During each test, volumetric airflow rates, applied vacuums, subsurface vacuums, and influent air total volatile organic compound (VOC) concentrations were monitored at fixed intervals. Subsurface vacuums were monitored using magnehelic gauges at the SVE wellhead as well as Site wells VP-1, MW-1, MW-2, MW-3, MW-4, CMT-3, CMT-11, and CMT-12. Groundwater levels at each monitoring point were measured prior to test implementation to confirm that the well screen was exposed to the unsaturated zone (see groundwater levels recorded on **Table 2**). All well screens used for vacuum monitoring were partially saturated except at the CMT wells and VP-1, which are stratigraphically higher than the other well screens. The shallowest interval at each CMT well was monitored, with deeper intervals plugged if they were not below the water table prior to testing. Subsurface vacuum readings collected during each phase of the pilot test were evaluated for stability before initiating the next testing phase. Influent flow rate and temperature were monitored during testing using a thermal anemometer.

Influent VOC concentrations were measured prior to the air-water separator using a 10.6 electron volt photoionization detector (PID). Influent air samples were also collected into laboratory-supplied Summa canisters, which were submitted to Envision Air Laboratories in Indianapolis, Indiana for laboratory analysis of VOCs using U.S. EPA Method TO-15. The TO-15 samples were collected within one hour of the start of each step, as well as at the end of Step 2 and Step 4.

4.0 PILOT STUDY RESULTS

Pilot study data was analyzed to determine the following parameters:

1. System air flow rates
2. COC mass removal rates
3. System influence on subsurface vacuum levels

Vacuum, flow rate, and PID data collected at the remediation system during testing are presented in **Table 4** and graphically depicted on **Chart 1**. Subsurface vacuum data is presented in **Table 5** and graphically depicted on **Chart 2**. No measurable subsurface moisture was collected during testing. The following sections present the methods and findings for each of the above-listed analyses.

4.1 System Air Flow Rates and Mass Removal

The influent flow rate was converted from ACFM to standard temperature and pressure conditions of 77 degrees Fahrenheit and 1.0 atmosphere to represent air flow in standard cubic feet per minute (SCFM) using the equation provided below:

$$\text{SCFM} = \text{ACFM} \times \left(\frac{P_{\text{act}}}{P_{\text{std}}} \right) \times \left(\frac{T_{\text{std}}}{T_{\text{act}}} \right) \quad \text{Equation 1}$$

where P_{act} is the actual influent pressure; P_{std} is the standard pressure; T_{act} is the actual influent temperature; and T_{std} is the standard temperature. All pressures represent absolute pressure. The vacuum recorded during testing (relative negative pressure) was converted to absolute pressure by subtracting that vacuum level from the ambient air pressure. The ambient pressure was determined based on data available from www.wunderground.com for the Madison Wisconsin Marquette weather station [KWIMADIS41], which is located approximately 2 miles northwest of the Site. The standard conditions used in the ACFM to SCFM calculation were chosen to align with the standards used by the analytical laboratory for the mass/volume concentrations reported in the laboratory analytical report.

System influent flow rate varied from a minimum of 41 SCFM during Step 1 to a maximum of 65 SCFM during Step 3. A summary of the flow rates is presented with the mass removal calculations in **Table 6**.

4.2 COC Mass Removal

The vapor influent samples contained PCE concentrations ranging from 797,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to 7,530,000 $\mu\text{g}/\text{m}^3$. Coupling influent vapor concentrations with the

influent flow rates over the test duration for each period indicates that mass was being removed at between 0.2 and 1.7 pounds per hour during testing. The total mass removed during testing is estimated at 8.77 pounds. A summary of effluent concentrations and calculated mass removal rates is provided in **Table 6**. A copy of the laboratory analytical report is provided in **Appendix C**.

4.3 Subsurface Vacuum Response

A maximum vacuum of 59 inH₂O was achieved during Step 4 at VP-1, with a vacuum of 0.11 inH₂O achieved at CMT-11 and CMT-3, both approximately 100 feet from the extraction well. Subsurface vacuum response during testing is graphically depicted in **Chart 2** and also presented in **Table 5**.

Vacuum propagation with distance from SVE-1 has been analyzed to identify trends for use in determining the feasibility of and potential design parameters for full-scale SVE remedial implementation at the Site. Subsurface vacuum readings indicate an anisotropic distribution, with vacuum dropping off more with distance from the extraction well in the northwesterly direction than in the southerly and easterly directions. However, the furthest data point from the extraction well in the northwesterly direction, CMT-12, is only approximately 20 feet from SVE-1. A depiction of the subsurface vacuum distribution is provided on **Figure 2**. Note that the CMT wells and VP-1 are screened over a stratigraphically higher interval than the other monitoring points (see **Table 2**). The two (2) dimensional depiction of vacuum influence presented in **Figure 2** does not account for vertical variability in the vacuum distribution.

A radius of vacuum influence evaluation was determined to be inappropriate for use with the Site data due to the anisotropic nature of subsurface vacuum propagation. However, as shown on **Figure 2**, subsurface vacuum propagation is well defined across the entire footprint of the current Site building. Potential future full scale SVE design will consider vacuum propagation on a point-by-point basis.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Hydrogeologic slug tests were performed and intrinsic permeability values were calculated prior to the initiation of SVE pilot testing. The results of this testing indicated that the upper bedrock unit had sufficient permeability to be amenable for SVE pilot testing. These permeability values also indicate that conditions within the bedrock unit exhibit characteristics typical of lithologic horizons where groundwater remedial strategies that involve the movement of fluid (air, water, oxidants, remediation fluids, etc.) have historically been successful.

The SVE pilot study removed more than 8 pounds of PCE from the unsaturated bedrock over a 28 hour period and generated vacuum influences of 0.50 inH₂O at 60 feet from the extraction well and 0.11 inH₂O at 100 feet from the extraction well. The results indicate that SVE is a viable remedial alternative for unsaturated bedrock near the Site. The results also indicate that a significant mass of PCE is contained in the bedrock, and removal of this mass is likely necessary to effectively address ongoing impacts to groundwater and soil vapor in the vicinity of the Site.

Flow in secondary porosity zones, specifically fracture zones and potentially areas of dissolution features, may dominate air movement in the bedrock. This phenomenon may be responsible for the anisotropic vacuum distribution observed. Under these conditions, SVE remediation is likely to exhibit two mass removal periods, with greater mass removal initially followed by a slower response as mass in secondary porosity is exhausted and mass transfer from primary porosity zones is required for continued mass removal. If full scale SVE remediation is pursued, this potential will be considered in system design and remedial duration projection.

Although shallow source area soils were partially excavated in 2010, some concentrations of PCE impacted soil remain outside the footprint of the former excavation (under the building). This pilot study was not designed to evaluate the use of SVE in these shallow (0 to 8 feet bgs) sandy soils; however, any system designed to address bedrock will have sufficient vacuum and flow rates to positively affect these shallow sandy soils.

It is recommended that SVE be included as a remedial option when evaluating an overarching remediation strategy for the Site.

TABLES

TABLE 1
Hydraulic Conductivity and Intrinsic Permeability
Soil Vapor Extraction Pilot Study Report

Klinke Clothing Care, Inc.
 Madison, Wisconsin
 WDNR BRRTS No. 02-13-551928

Well ID	Test Type	Screened Interval (feet amsl)	Screened Unit	Average Hydraulic Conductivity (feet/sec)	Average Hydraulic Conductivity (feet/sec)	Average Intrinsic Permeability* (cm ²)
MW-1	Rising Head	854.38 - 844.38	Water Table Sandstone	1.28E-04	1.55E-04	4.71E-08
MW-2	Rising Head	853.91 - 843.91		1.88E-04		
MW-3	Rising Head	853.93 - 843.93		1.48E-04		

* Intrinsic permeability determined from hydraulic conductivity using relationships presented in *Groundwater* by Freeze and Cherry, 1979, Table 2.2.

TABLE 2
Monitoring Point Construction Information
Soil Vapor Extraction Pilot Study Report
 Klinke Clothing Care, Inc.
 Madison, Wisconsin
 WDNR BRRTS No. 02-13-551928

Monitoring Well ID	Top of Casing Elevation (feet amsl)	Ground Elevation (feet amsl)	Port Number	Screened Interval (feet bgs)	Screened Interval (feet amsl)	Water Table (feet bgs)	Water Table (feet amsl)
SVE-1*	NA	902	NA	30.0 - 45.0	872.0 - 857.0	NA	NA
VP-1*	NA	902	NA	35.0 - 40.0	867.0 - 862.0	NA	NA
MW-1	901.59	901.98	NA	47.6 - 57.6	854.4 - 844.4	52.0	850.0
MW-2	901.10	901.47	NA	47.6 - 57.6	853.9 - 843.9	51.8	849.7
MW-3	900.66	900.92	NA	47.0 - 57.0	853.9 - 843.9	51.3	849.6
MW-4	901.03	901.63	NA	47.8 - 57.8	853.8 - 843.8	52.4	849.3
CMT-3	900.29	900.81	1	24.5 - 25.0	876.3 - 875.8	NA	NA
			2	50.4 - 55.4	850.5 - 845.5	51.0	849.8
CMT-11	901.72	901.87	1	24.5 - 25.0	877.4 - 876.9	NA	NA
			2	52.8 - 57.8	849.1 - 844.1	52.1	849.8
CMT-12	899.90	900.21	1	20.5 - 21.0	879.7 - 879.2	NA	NA
			2	50.1 - 55.1	850.1 - 845.1	50.5	849.7

* Not surveyed

NA = Not applicable or not available

bgs = below ground surface

amsl = above mean sea level

TABLE 3
SVE Pilot Study Testing Regime
Soil Vapor Extraction Pilot Study Report
 Klinke Clothing Care, Inc.
 Madison, Wisconsin
 WDNR BRRTS No. 02-13-551928

Step	Time Start	Time Stop	Hour Start	Hour Stop	Duration (hours)	System Vacuum (inH₂O)	Wellhead Vacuum (inH₂O)
1	1/14/2015 08:30	1/14/2015 13:00	0.00	4.50	4.50	54	27
2	1/14/2015 13:00	1/14/2015 16:30	4.50	8.00	3.50	109	82
3	1/14/2015 16:30	1/15/2015 07:45	8.00	23.25	15.25	163	129
4	1/15/2015 07:45	1/15/2015 12:45	23.25	28.25	5.00	217	177

inH₂O = vacuum as inches water column

TABLE 4
SVE Pilot Study System Data
Soil Vapor Extraction Pilot Study Report
 Klinke Clothing Care, Inc.
 Madison, Wisconsin
 WDNR BRRTS No. 02-13-551928

Step	Date and Time	Test Hour	System Influent Vacuum (inH ₂ O)	System Influent Flow Rate (ACFM)	System Influent Temperature (°F)	System Influent VOCs Concentration (ppm)
1	1/14/15 8:30	0.00	54	45.0	36.0	402.0
	1/14/15 8:45	0.25	54	42.0	26.0	312.0
	1/14/15 9:00	0.50	54	48.0	61.0	375.0
	1/14/15 9:15	0.75	54	45.0	51.0	420.0
	1/14/15 9:30	1.00	54	43.0	42.0	520.0
	1/14/15 10:00	1.50	54	45.0	56.0	600.0
	1/14/15 10:30	2.00	54	45.0	55.0	684.0
	1/14/15 11:30	3.00	54	43.0	66.0	655.0
	1/14/15 12:30	4.00	54	43.0	54.0	440.0
	1/14/15 12:50	4.33	109	NA	NA	NA
2	1/14/15 13:00	4.50	109	69.0	34.0	605.0
	1/14/15 13:30	5.00	109	76.0	60.0	732.0
	1/14/15 14:00	5.50	109	76.0	53.0	720.0
	1/14/15 14:30	6.00	109	83.0	74.0	825.0
	1/14/15 15:00	6.50	109	76.0	48.0	785.0
	1/14/15 16:00	7.50	109	82.0	62.0	730.0
	1/14/15 16:15	7.75	109	79.0	68.0	750.0
3	1/14/15 16:30	8.00	163	105.0	62.0	805.0
	1/14/15 17:00	8.50	163	101.0	89.0	820.0
	1/14/15 17:30	9.00	163	97.0	83.0	870.0
	1/14/15 18:00	9.50	163	116.0	85.0	810.0
	1/15/15 7:00	22.50	163	101.0	89.0	783.0
4	1/15/15 8:15	23.75	217	95.0	53.0	550.0
	1/15/15 8:45	24.25	217	89.0	37.0	560.0
	1/15/15 9:45	25.25	217	93.0	36.0	675.0
	1/15/15 10:45	26.25	217	79.0	41.0	650.0
	1/15/15 11:45	27.25	217	98.0	55.0	720.0
	1/15/15 12:45	28.25	217	91.0	48.0	615.0

inH₂O = vacuum as inches water column

ACFM = actual cubic feet per minute

VOC = Volatile organic compound

ppm = parts per million by volume (as measured by photoionization detector)

TABLE 5
SVE Pilot Study Subsurface Data
Soil Vapor Extraction Pilot Study Report
 Klinke Clothing Care, Inc.
 Madison, Wisconsin
 WDNR BRRTS No. 02-13-551928

Step	Date and Time	Test Hour	SVE-1	VP-1	MW-1	MW-2	CMT-12	CMT-11	CMT-3	MW-3	MW-4
1	1/14/15 7:00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	1/14/15 8:30	1.50	34	14	0.130	0.105	0.000	0.010	0.010	0.090	0.060
	1/14/15 9:00	2.00	27	14	0.135	0.110	0.010	0.010	0.010	0.090	0.065
	1/14/15 9:30	2.50	27	14	0.130	0.110	0.010	0.010	0.010	0.095	0.060
	1/14/15 10:00	3.00	27	14	0.130	0.105	0.010	0.010	0.015	0.095	0.060
	1/14/15 10:30	3.50	27	15	0.135	0.110	0.010	0.010	0.015	0.090	0.065
	1/14/15 11:30	4.50	27	15	0.080	0.010	0.000	0.015	0.010	0.080	0.020
	1/14/15 12:30	5.50	27	15	0.080	0.020	0.000	0.010	0.010	0.085	0.025
2	1/14/15 13:00	6.00	82	23	0.160	0.080	0.050	0.030	0.020	0.100	0.045
	1/14/15 13:30	6.50	82	24	0.160	0.075	0.110	0.025	0.025	0.105	0.040
	1/14/15 14:00	7.00	82	24	0.165	0.080	0.115	0.030	0.035	0.110	0.040
	1/14/15 14:30	7.50	82	34	0.160	0.090	0.120	0.035	0.035	0.110	0.040
	1/14/15 15:00	8.00	82	34	0.160	0.120	0.120	0.040	0.040	0.115	0.060
	1/14/15 16:00	9.00	82	34	0.160	0.120	0.120	0.045	0.040	0.110	0.060
3	1/14/15 16:30	9.50	129	45	0.200	0.165	0.160	0.075	0.075	0.150	0.100
	1/14/15 17:00	10.00	129	46	0.210	0.170	0.165	0.070	0.070	0.150	0.105
	1/14/15 17:30	10.50	129	46	0.210	0.175	0.165	0.075	0.070	0.150	0.105
	1/14/15 18:00	11.00	129	46	0.210	0.175	0.170	0.075	0.070	0.150	0.105
	1/15/15 7:00	24.00	136	47	0.215	0.180	0.170	0.080	0.075	0.200	0.110
4	1/15/15 7:45	24.75	170	58	0.27	0.225	0.220	0.110	0.105	0.40	0.150
	1/15/15 8:15	25.25	177	59	0.28	0.235	0.225	0.110	0.105	0.45	0.200
	1/15/15 8:45	25.75	177	59	0.28	0.240	0.230	0.115	0.110	0.45	0.210
	1/15/15 9:45	26.75	177	59	0.29	0.240	0.230	0.115	0.110	0.50	0.215
	1/15/15 10:45	27.75	177	59	0.29	0.240	0.230	0.110	0.110	0.50	0.215
	1/15/15 11:45	28.75	177	59	0.29	0.240	0.230	0.110	0.115	0.50	0.215
	1/15/15 12:45	29.75	177	59	0.28	0.240	0.225	0.110	0.110	0.50	0.210
Maximum vacuum:			177	59	0.29	0.240	0.230	0.115	0.115	0.50	0.215

All values are vacuum readings in units of inches water column

TABLE 6
SVE Pilot Study Mass Removal Estimates
Soil Vapor Extraction Pilot Study Report
 Klinke Clothing Care, Inc.
 Madison, Wisconsin
 WDNR BRRTS No. 02-13-551928

Step 1; Sample SVE-1; Flow rate = 41.1 SCFM; Duration = 4.5 hours				
Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Removal Rate (lb/hour)	Removal Rate (tons/year)	Mass Removed (lb)
Tetrachloroethene	1,300,000	0.20002	0.88	0.900
Trichloroethene	< 3,440	< 0.00053	< 0.002	NA
cis-1,2-Dichloroethene	< 63,400	< 0.00976	< 0.04275	NA
trans-1,2-Dichloroethene	< 127,000	< 0.01954	< 0.0856	NA
Vinyl Chloride	< 4,090	< 0.000629	< 0.00276	NA

Step 2; Sample SVE-2; Flow rate = 59.5 SCFM; Duration = 1.8 hours				
Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Removal Rate (lb/hour)	Removal Rate (tons/year)	Mass Removed (lb)
Tetrachloroethene	7,530,000	1.67758	7.35	2.936
Trichloroethene	< 3,440	< 0.00077	< 0.00335	NA
cis-1,2-Dichloroethene	< 63,400	< 0.01412	< 0.01185	NA
trans-1,2-Dichloroethene	< 127,000	< 0.02829	< 0.1239	NA
Vinyl Chloride	< 4,090	< 0.00091	< 0.00399	NA

Step 2; Sample SVE-3; Flow rate = 59.5 SCFM; Duration = 1.8 hours				
Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Removal Rate (lb/hour)	Removal Rate (tons/year)	Mass Removed (lb)
Tetrachloroethene	1,410,000	0.31413	1.38	0.550
Trichloroethene	< 3,440	< 0.00077	< 0.003	NA
cis-1,2-Dichloroethene	< 63,400	< 0.01412	< 0.06185	NA
trans-1,2-Dichloroethene	< 127,000	< 0.02829	< 0.1239	NA
Vinyl Chloride	< 4,090	< 0.00091	< 0.00399	NA

Step 3; Sample SVE-4; Flow rate = 64.5 SCFM; Duration = 15.3 hours				
Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Removal Rate (lb/hour)	Removal Rate (tons/year)	Mass Removed (lb)
Tetrachloroethene	983,000	0.23762	1.04	3.624
Trichloroethene	< 3,440	< 0.00083	< 0.004	NA
cis-1,2-Dichloroethene	< 63,400	< 0.01533	< 0.06715	NA
trans-1,2-Dichloroethene	< 127,000	< 0.0307	< 0.13445	NA
Vinyl Chloride	< 4,090	< 0.00099	< 0.00434	NA

Step 4; Sample SVE-5; Flow rate = 45.3 SCFM; Duration = 2.5 hours				
Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Removal Rate (lb/hour)	Removal Rate (tons/year)	Mass Removed (lb)
Tetrachloroethene	983,000	0.16672	0.73	0.417
Trichloroethene	3,440	0.00058	0.0026	0.0015
cis-1,2-Dichloroethene	< 63,400	< 0.01075	< 0.0471	NA
trans-1,2-Dichloroethene	< 127,000	< 0.02154	< 0.09435	NA
Vinyl Chloride	< 4,090	< 0.00069	< 0.00302	NA

Step 4; Sample SVE-6; Flow rate = 45.3 SCFM; Duration = 2.5 hours				
Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Removal Rate (lb/hour)	Removal Rate (tons/year)	Mass Removed (lb)
Tetrachloroethene	797,000	0.13518	0.59	0.338
Trichloroethene	< 3,440	< 0.00058	< 0.003	NA
cis-1,2-Dichloroethene	< 63,400	< 0.01075	< 0.0471	NA
trans-1,2-Dichloroethene	< 127,000	< 0.02154	< 0.09435	NA
Vinyl Chloride	< 4,090	< 0.00069	< 0.00302	NA

Total estimated mass removed (lb):	8.77			
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Notes:

Removal Rate = concentration x duration

NA = Not Available

Mass Removed = Estimated mass removed through SVE system during representative pilot study periods

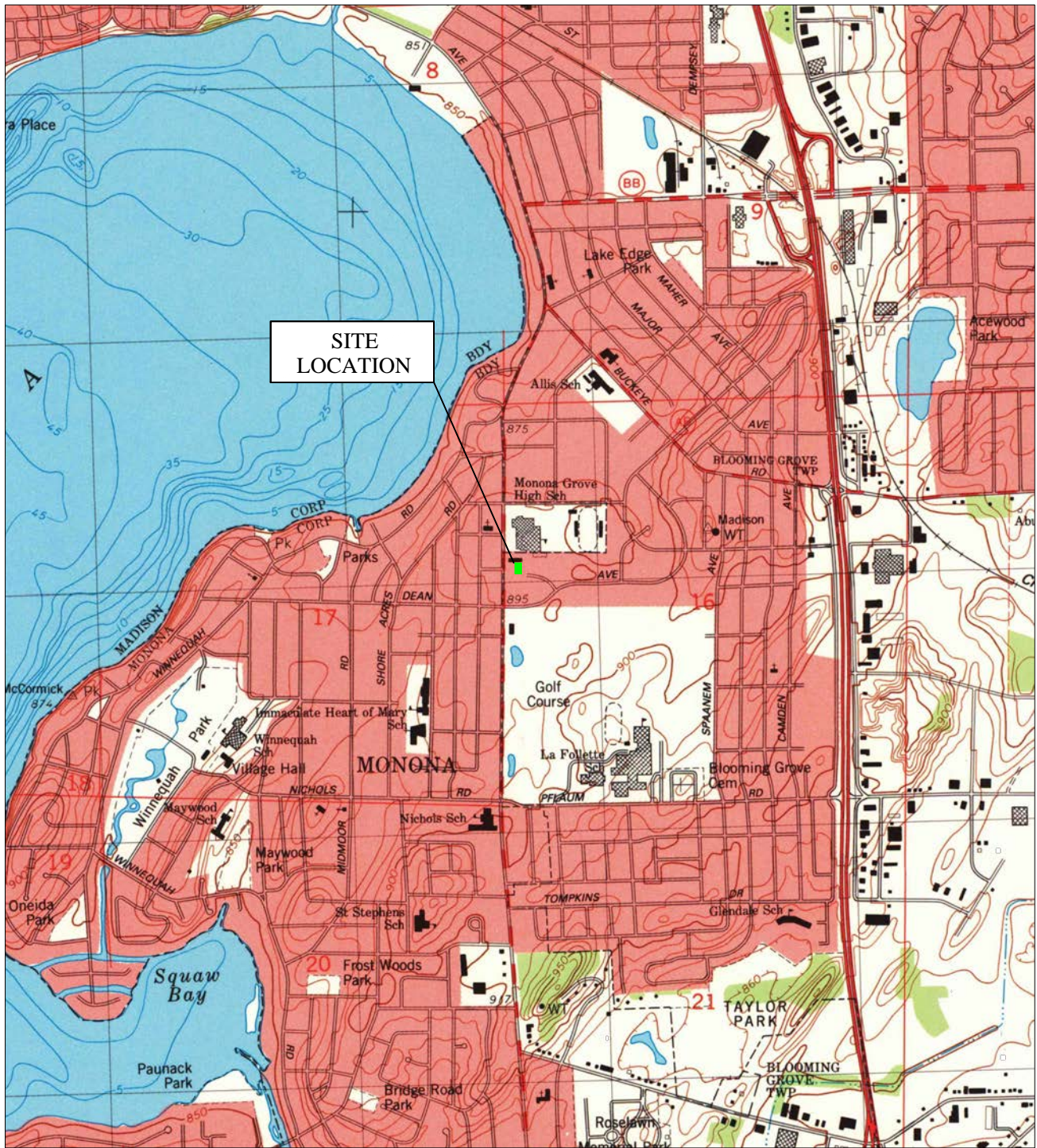
SCFM = Standard cubic feet per minute

μg = microgram

m = meter

lb = pound

FIGURES



Scale 1:24,000



No.	Date	Revision	Approved

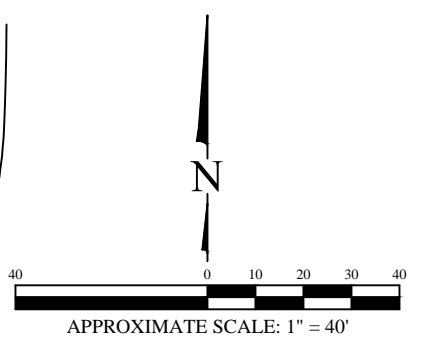
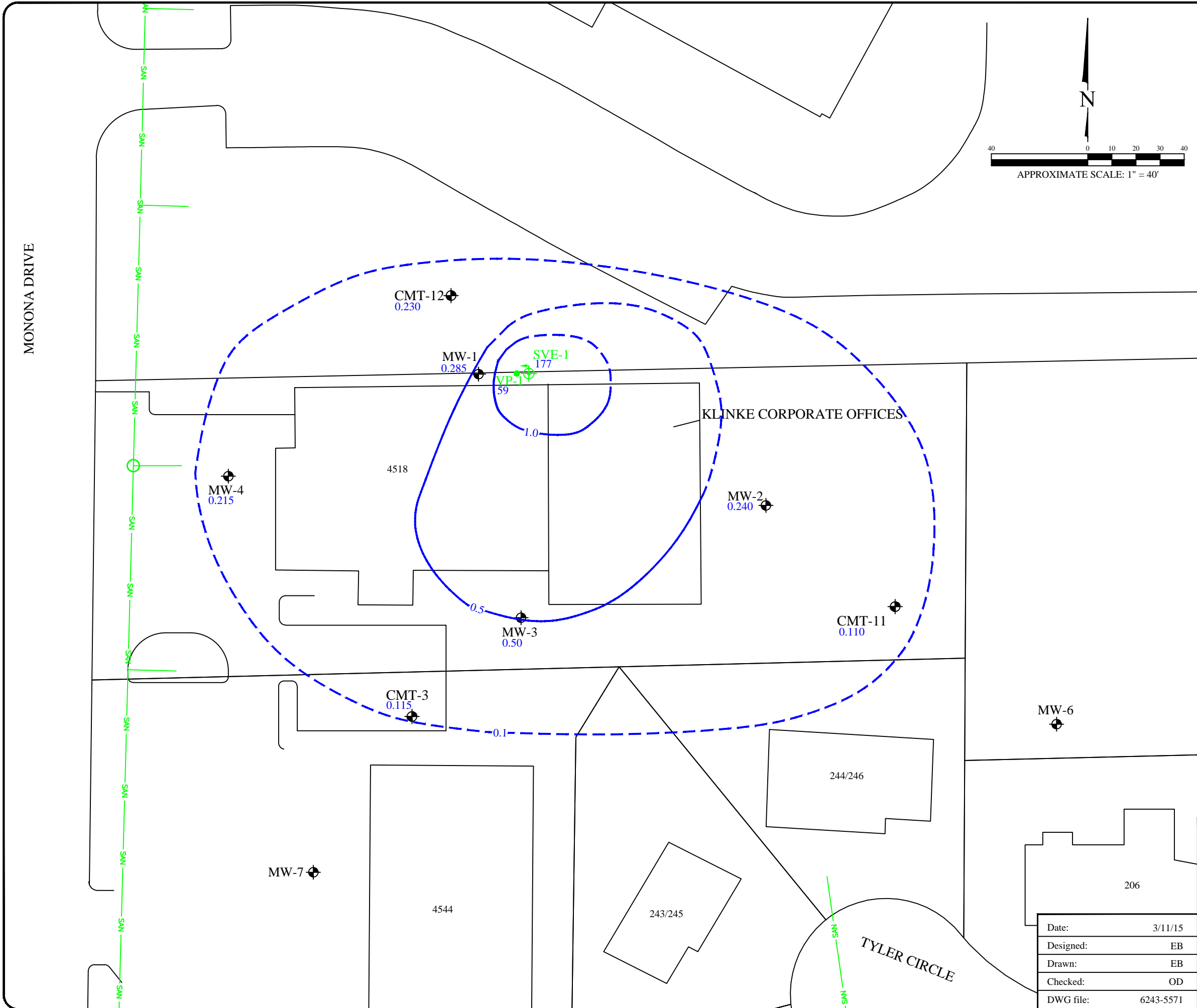
ENVIROforensics
 ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
 602 N. Capitol Ave, Suite 210 • Indianapolis, IN 46204
 EnviroForensics.com

Date:	2/25/14
Designed:	EB
Drawn:	EB
Checked:	JJ
DWG file:	6243-4826

SITE LOCATION MAP

Klinke Cleaners
 4518 Monona Dr.
 Madison, WI

Figure	1
Project	6243



Legend

- MW-1 Monitoring Well Location
- SAN Sanitary Sewer
- SVE-1 SVE extraction well location
- VP-1 Vapor monitoring point location
- 0.230 Vacuum measurement in inches of water column
- Subsurface vacuum isocontour (inches water column) (dashed where inferred)

MONONA DRIVE

KLINKE CORPORATE OFFICES

TYLER CIRCLE

SVE PILOT TEST VACUUM DISTRIBUTION

Klinke Cleaners
4518 Monona Dr.
Madison, WI










Date:	3/11/15
Designed:	EB
Drawn:	EB
Checked:	OD
DWG file:	6243-5571



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Figure	2
Project	6243



VALVE AND PIPING SYMBOLS

	GATE VALVE
	SOLENOID VALVE
	CHECK VALVE
	BALL VALVE
	SAMPLING PORT
	EXHAUST TO ATMOSPHERE (INSIDE)
	EXHAUST TO ATMOSPHERE (OUTSIDE)
	PRESSURE RELIEF VALVE
	VACUUM GAUGE

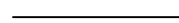
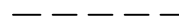
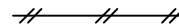
ABBREVIATIONS

DP	DIFFERENTIAL PRESSURE	M	MOTOR
DO	DISSOLVED OXYGEN	NO	NORMALLY OPEN
FC	FAIL CLOSED	NC	NORMALLY CLOSED
FI	FAIL INDETERMINATE	P	PRESSURE
FL	FAIL LOCKED	PI	PRESSURE INDICATOR
FO	FAIL OPEN	PS	PRESSURE SWITCH
FQ	FAIL QUANTIFIER	PT	PRESSURE TRANSMITTER
HOA	HAND-OFF-AUTOMATIC	PRV	PRESSURE RELIEF VALVE
HS	HAND SWITCH	PSH	PRESSURE SWITCH
IL	INDICATOR LIGHT		- HIGH
I/I	CURRENT-TO-CURRENT	SG	SIGHT GLASS
I/P	CURRENT-TO-PNEUMATIC	SP	SAMPLING PORT
KC	PROGRAM CONTROLLER	UA	UNIVERSAL ALARM
LC	LEVEL CONTROLLER	FMT	FLOW METER TOTALIZER
LEL	LOWER EXPLOSIVE LIMIT	AFM	AIR FLOW METER
LR	LOCAL-REMOTE		
LS	LEVEL SWITCH		
LSHH	} LIQUID SWITCH		
LSL			
LSH			









EQUIPMENT SYMBOLS

	PUMP
	BLOWER

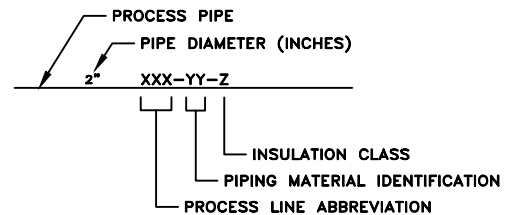
LINE SYMBOLS

	PROCESS PIPES OR CHANNELS
	ELECTRIC SIGNAL
	COMPRESSED AIR LINE

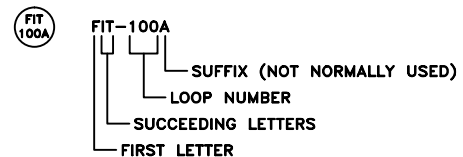
GENERAL INSTRUMENT SYMBOLS

		LOCALLY MOUNTED
		PANEL MOUNTED
		REAR-OF-PANEL MOUNTED
		INTERLOCK
		PURGE

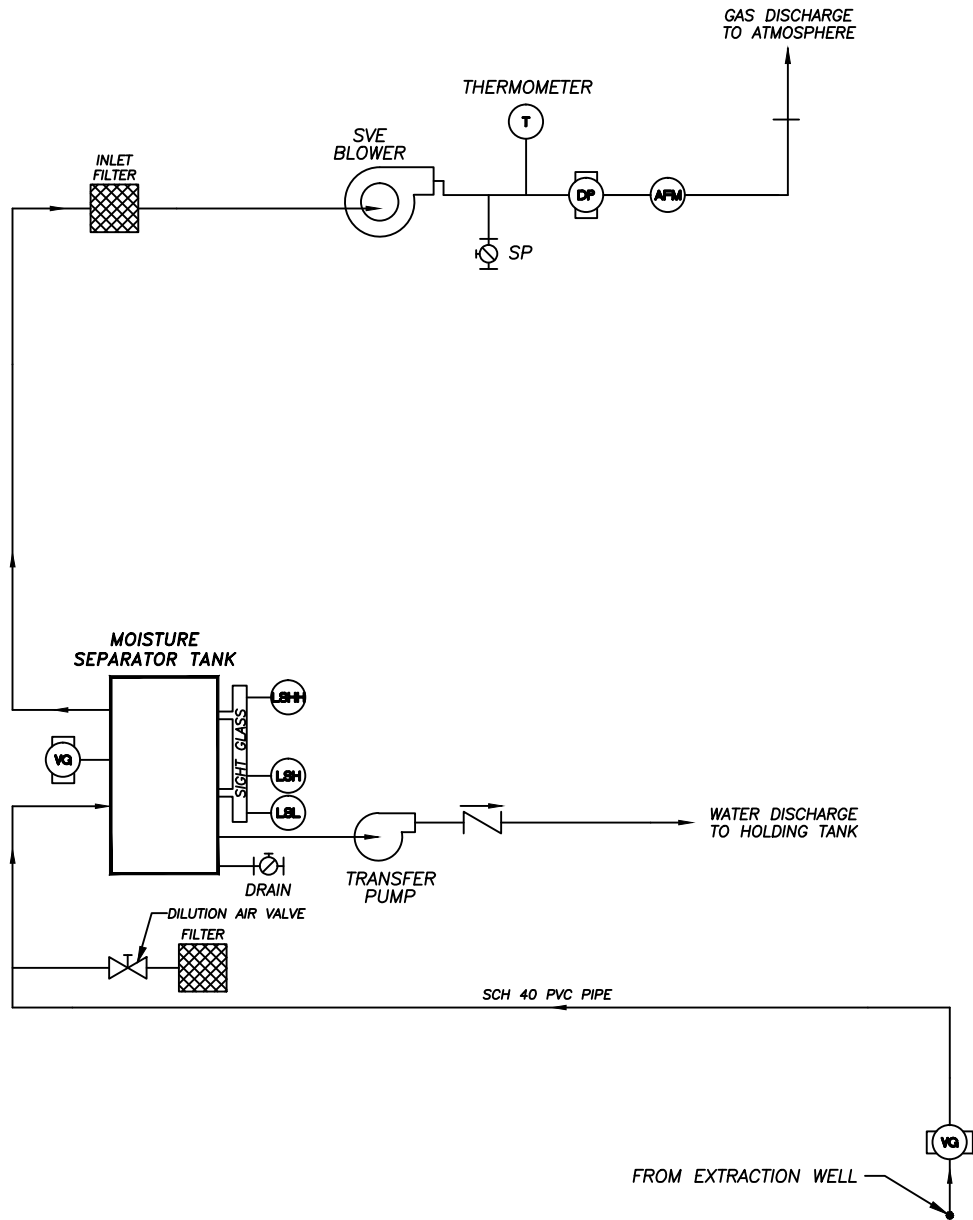
PROCESS PIPING IDENTIFICATION



INSTRUMENT IDENTIFICATION



No.	Date	Revision	Approved



No.	Date	Revision	Approved

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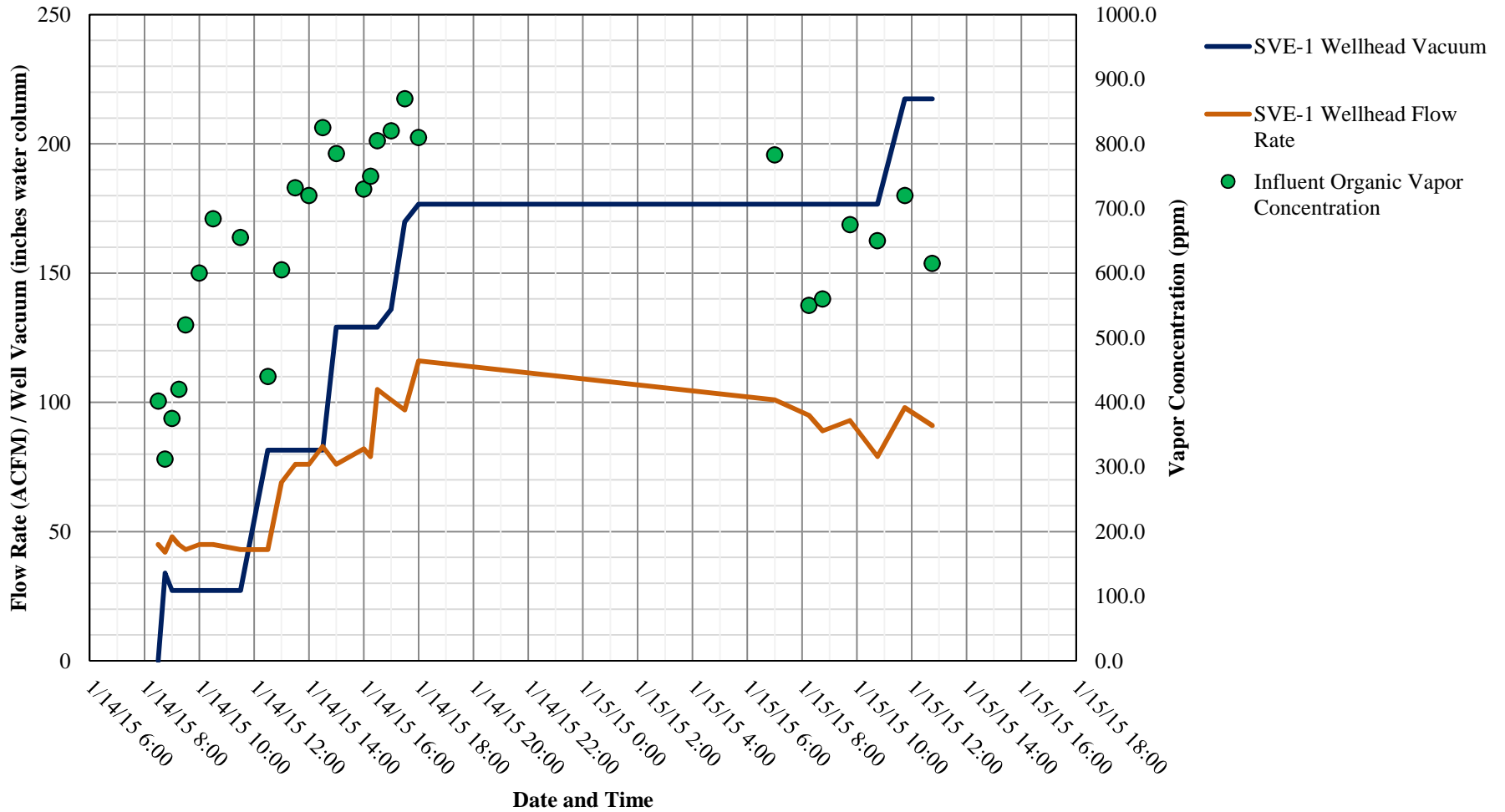
Date:	3/11/15
Designed:	EB
Drawn:	EB
Checked:	OD
DWG file:	6243-5568

PROPOSED SVE SYSTEM PROCESS AND INSTRUMENTATION DIAGRAM
 Klinke Cleaners
 4518 Monona Dr.
 Madison, WI

Figure	4
Project	
6243	

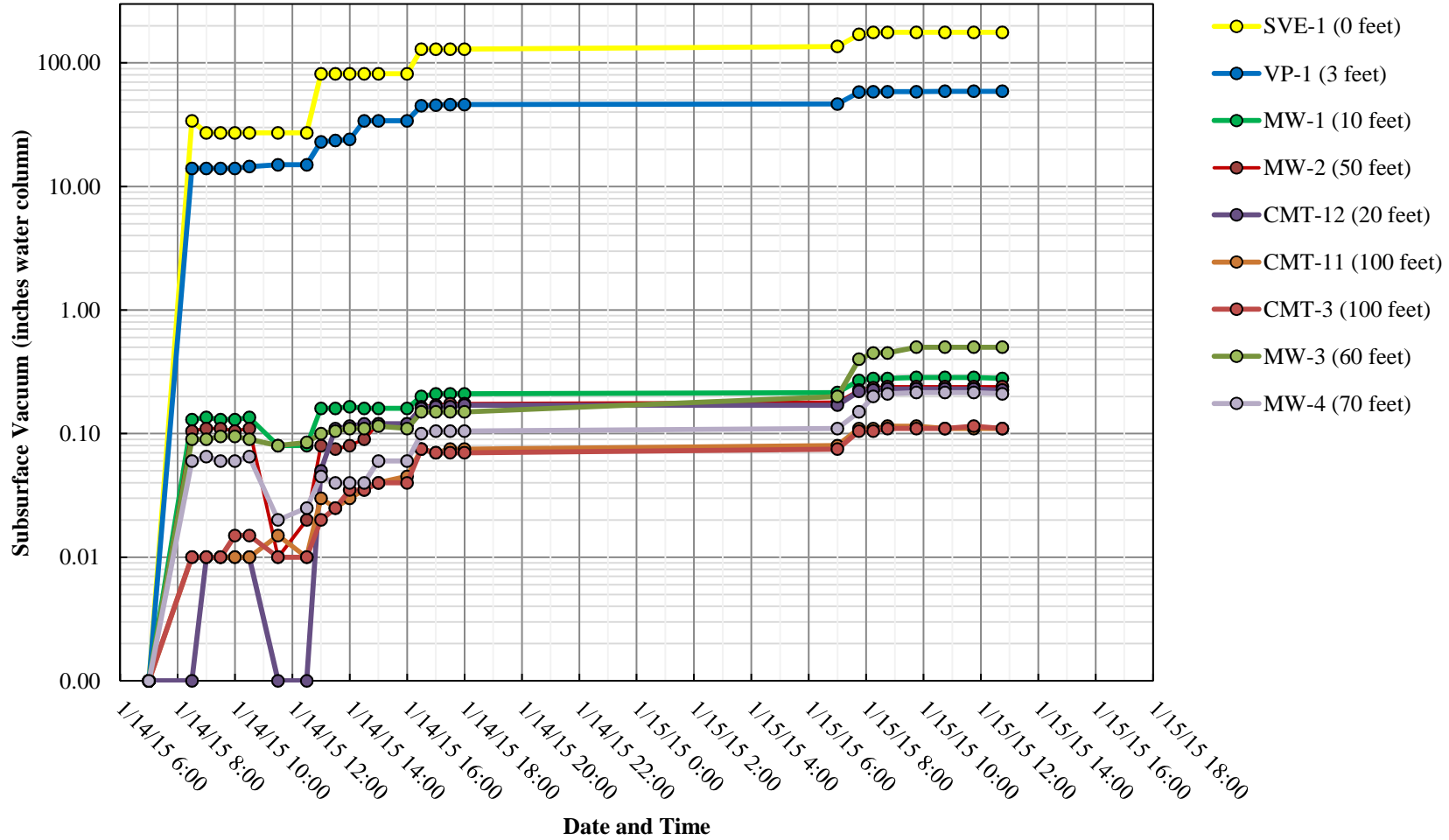
CHARTS

CHART 1
Extraction Regime and Organic Vapor Concentrations
Soil Vapor Extraction Pilot Study Report
 Klinke Clothing Care, Inc.
 Madison, Wisconsin
 WDNR BRRTS No. 02-13-551928



ppm = parts per million (as measured by photoionization detector)
 ACFM = Actual Cubic Feet per Minute

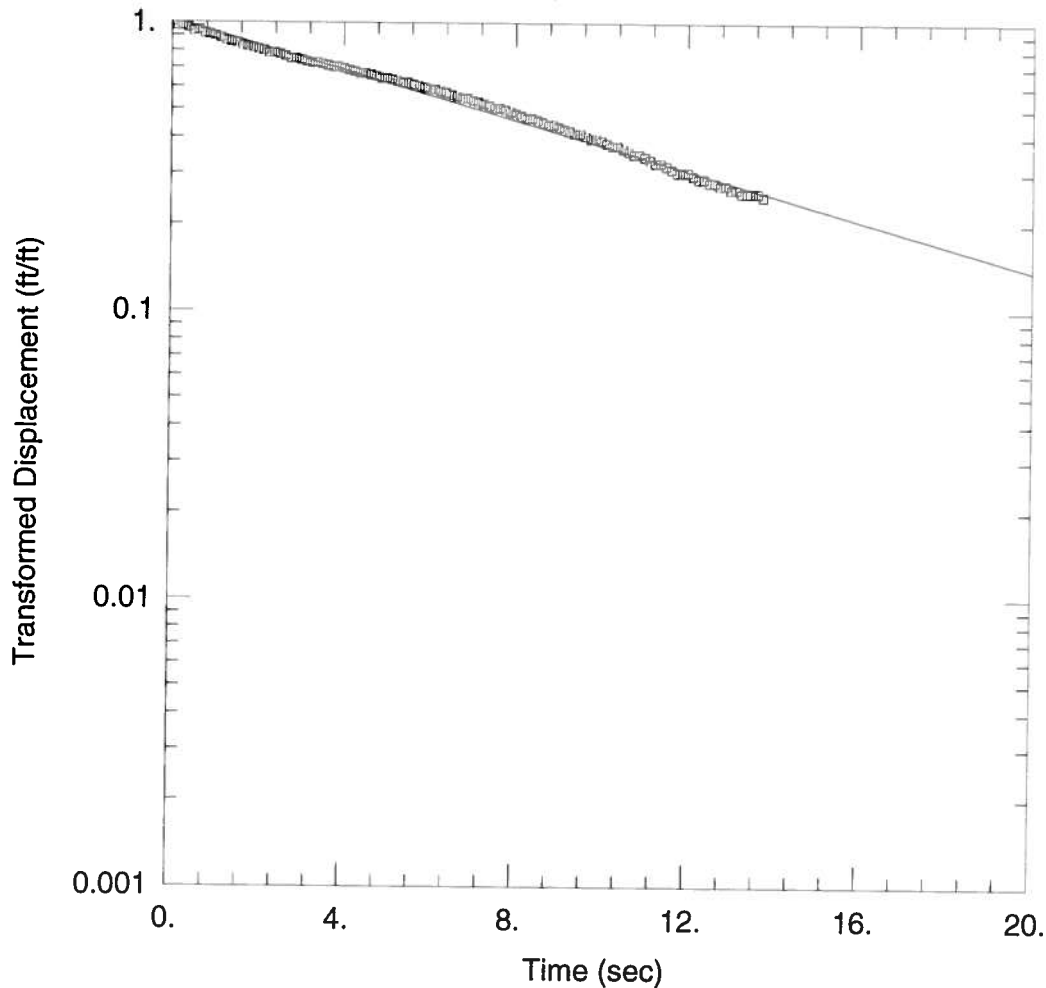
CHART 2
Subsurface Vacuum Data
Soil Vapor Extraction Pilot Study Report
 Klinkle Clothing Care, Inc.
 Madison, Wisconsin
 WDNR BRRTS No. 02-13-551928





APPENDIX A

Slug Test Results



MW-1 RH

Data Set: C:\Users\kgaskill\Desktop\Klinke MW-1.aqt

Date: 03/12/15

Time: 13:58:50

PROJECT INFORMATION

Company: EnviroForensics

Client: Klinke

Project: 6243

Location: Menona, WI

Test Well: MW-1

Test Date: 11/18/14

AQUIFER DATA

Saturated Thickness: 100. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1)

Initial Displacement: 1.26 ft

Static Water Column Height: 7.4 ft

Total Well Penetration Depth: 57.1 ft

Screen Length: 10. ft

Casing Radius: 0.33 ft

Well Radius: 0.085 ft

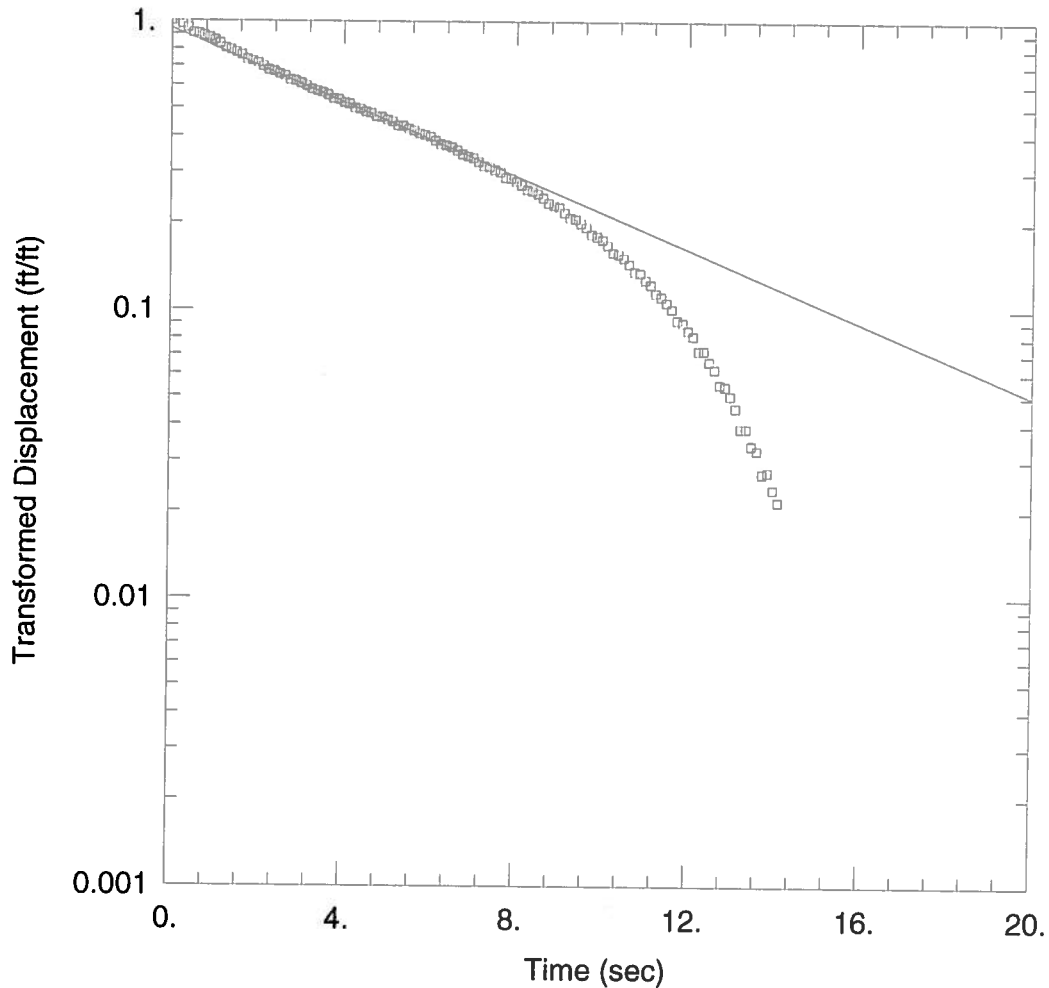
SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.0001282 ft/sec

y0 = 1.287 ft



MW-2 RH

Data Set: C:\Users\kgaskill\Desktop\Klinke MW-2.aqt

Date: 03/12/15

Time: 13:59:13

PROJECT INFORMATION

Company: EnviroForensics

Client: Klinke

Project: 6243

Location: Menona, Wi

Test Well: MW-2

Test Date: 11/18/14

AQUIFER DATA

Saturated Thickness: 100. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-2)

Initial Displacement: 0.8802 ft

Static Water Column Height: 7.9 ft

Total Well Penetration Depth: 57. ft

Screen Length: 10. ft

Casing Radius: 0.33 ft

Well Radius: 0.085 ft

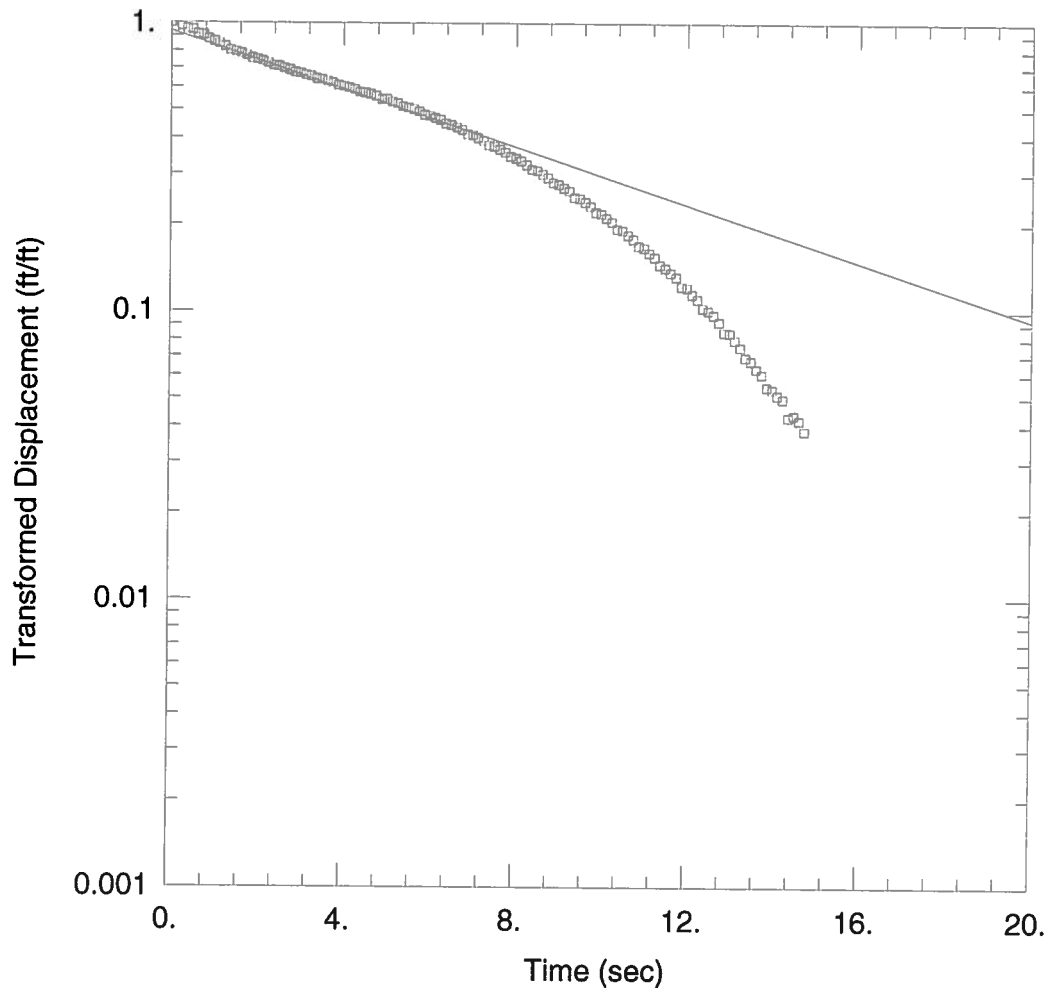
SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.0001877 ft/sec

y0 = 0.8302 ft



MW-3 RH

Data Set: C:\Users\kgaskill\Desktop\Klinke MW-3.aqt

Date: 03/12/15

Time: 13:59:31

PROJECT INFORMATION

Company: EnviroForensics

Client: Klinke

Project: 6243

Location: Menona, Wi

Test Well: MW-3

Test Date: 11/18/14

AQUIFER DATA

Saturated Thickness: 100. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-3)

Initial Displacement: 0.9673 ft

Static Water Column Height: 7.25 ft

Total Well Penetration Depth: 56.5 ft

Screen Length: 10. ft

Casing Radius: 0.33 ft

Well Radius: 0.085 ft

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.0001479 ft/sec

y0 = 0.9085 ft



APPENDIX B

Boring Logs

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other


Facility/Project Name Klinke Clothing Care		License/Permit/Monitoring Number 02-13-551928		Boring Number SVE-1	
Boring Drilled By: Name of crew chief (first, last) and Firm Badger State Drilling		Date Drilling Started 12/11/2015		Date Drilling Completed 12/11/2015	
WI Unique Well No. VY764		DNR Well ID No.		Common Well Name SVE-1	
Final Static Water Level Feet MSL		Surface Elevation 902 Feet MSL		Borehole Diameter 8 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Lat _____ " _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____ " _____ "		Feet _____ Feet _____	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Madison	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	(0'-6') CLAY (CL): Clay, some gravel, trace coarse sand, trace cobbles. (0.7'-1.3') SAND (SW): SAND Lense.	SW									
			2											
			3		CL									
			4											
			5											
			6	(6'-8') SANDY CLAY (SW-SC): SANDY CLAY, few cobbles.	SW-SC									
			7											
			8	(8'-45') SANDSTONE BEDROCK (SS): SANDSTONE BEDROCK.	SS									
			9											
			10											
			11											
			12											

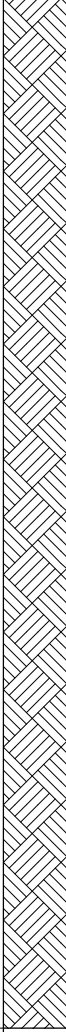
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm EnviroForensics	Tel: Fax:
---------------	--------------------------------	--------------

Boring Number **SVE-1** Use only as an attachment to Form 4400-122. Page **2** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			13	(8'-45') SANDSTONE BEDROCK (SS): SANDSTONE BEDROCK. <i>(continued)</i>	SS									
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

Boring Number **SVE-1** Use only as an attachment to Form 4400-122. Page **3** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			33 34 35 36 37 38 39 40 41 42 43 44 45	(8'-45') SANDSTONE BEDROCK (SS): SANDSTONE BEDROCK. <i>(continued)</i>	SS									

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Klinke Clothing Care		License/Permit/Monitoring Number 02-13-551928		Boring Number VP-1	
Boring Drilled By: Name of crew chief (first, last) and Firm Badger State Drilling			Date Drilling Started 12/11/2015	Date Drilling Completed 12/11/2015	Drilling Method Air Rotary
WI Unique Well No. VY768	DNR Well ID No.	Common Well Name VP-1	Final Static Water Level Feet MSL	Surface Elevation 902 Feet MSL	Borehole Diameter 6 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of		1/4 of Section		T N, R	
Facility ID		County Dane	County Code 13	Civil Town/City/ or Village Madison	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	(0'-3') CLAY (CL): Dark brown, CLAY	CL									
			2											
			3	(2.75'-3.25') SAND (SW): SAND Lense.	SW									
			4	(3.25'-8') CLAY (CL): Strong brown, SILTY CLAY, some cobbles, trace coarse sands.	CL									
			5											
			6											
			7											
			8	(8'-40') SANDSTONE BEDROCK (SS): SANDSTONE BEDROCK.	SS									
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm EnviroForensics	Tel: Fax:
---------------	--------------------------------	--------------

Boring Number **VP-1**

Use only as an attachment to Form 4400-122.

Page **2** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			13	(8'-40') SANDSTONE BEDROCK (SS): SANDSTONE BEDROCK. <i>(continued)</i>	SS								
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

Boring Number **VP-1** Use only as an attachment to Form 4400-122. Page **3** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			33 34 35 36 37 38 39 40	(8'-40') SANDSTONE BEDROCK (SS): SANDSTONE BEDROCK. <i>(continued)</i>	SS									

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 2

Facility/Project Name <u>Klinke Cleaners - Monona Dr.</u>		License/Permit/Monitoring Number	Boring Number <u>MW-1</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>Alex</u> Last Name: Firm: <u>Badger State Drilling</u>		Date Drilling Started <u>10/13/2010</u> m m d d y y y y	Date Drilling Completed <u>10/13/2010</u> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name <u>MW-1</u>	Drilling Method <u>HSA / Air-Rotary</u>
		Final Static Water Level <u>851.88</u> Feet MSL	Surface Elevation <u>901.98</u> Feet MSL
			Borehole Diameter <u>8</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane _____ N, _____ E		Lat _____ " _____ "	
1/4 of _____ 1/4 of Section _____ T _____ N, R _____		Long _____ " _____ "	
		Feet <input type="checkbox"/> N _____ Feet <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____	
Facility ID	County <u>Dane</u>	County Code	Civil Town/City/ or Village <u>Monona</u>

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID (1-7)	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	11 24	5	-1	0-5 FILL, silt with sand, some rootlets, dark yellowish brown, moist				1-3 2.0						
		5												
		7	-2											
		10												
2 SS	18 24	10	-5	5-7 SAND, light brown, fine to medium sand, moist				5-7 1.7						
		31	-6											
		50	-7	7-45 Sandstone BEDROCK, weakly cemented, very light brown @ 8' auger refusal - switch to air rotary more competent										
		50	-8											
			-9											
			-10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm Saga Environmental & Eng., Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 2

Facility/Project Name <i>Klinke Cleaners - Monona Dr.</i>		License/Permit/Monitoring Number	Boring Number <i>MW-2</i>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>Alex</i> Last Name: _____ Firm: <i>Budger State Drilling</i>		Date Drilling Started <i>10.14.2010</i> m m d d y y y y	Date Drilling Completed <i>10.14.2010</i> m m d d y y y y
Drilling Method <i>HSA / Air Rotary</i>	WI Unique Well No.	DNR Well ID No.	Well Name <i>MW-2</i>
Final Static Water Level <i>851.96</i> Feet MSL	Surface Elevation <i>901.47</i> Feet MSL	Borehole Diameter <i>8</i> inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane _____ N, _____ E		Lat _____ ' "	<input type="checkbox"/> N <input type="checkbox"/> E
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____ ' "	<input type="checkbox"/> S <input type="checkbox"/> W
Facility ID	County <i>Dane</i>	County Code	Civil Town/City/ or Village <i>Monona</i>

Sample Number and Type	Length Au. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	12 24	5	-1	0-3 <u>FILL</u> , silt and sand, yellowish-brown, moist				1-3						
		6												
		10	-2											
2 SS	14 24	13	-3	3-7 <u>SAND</u> , poorly-graded fine to medium sand, light brown, moist				5-7						
		11												
		12	-6											
		20	-7	7'-45' <u>SANDSTONE</u>										
			-8	<u>BEDROCK</u> , light brown, weakly cemented										
			-9	@ 9' auger refusal -										
			-10	switch to air rotary										

Submit soil sample for VOCs

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm *Saga Environmental & Engr., Inc.*

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 2

Facility/Project Name <i>Klinke Cleaners - Monona A.</i>		License/Permit/Monitoring Number	Boring Number <i>MW-3</i>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>Alex</i> Last Name: Firm: <i>Budax State Drilling</i>		Date Drilling Started <i>10/14/2010</i> m m d d y y y y	Date Drilling Completed <i>10/15/2010</i> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name <i>MW-3</i>	Drilling Method <i>USA/Air Rotary</i>
		Final Static Water Level <i>851.94</i> Feet MSL	Surface Elevation <i>900.92</i> Feet MSL
			Borehole Diameter <i>8</i> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane _____ N, _____ E		_____ Feet <input type="checkbox"/> N <input type="checkbox"/> E	
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		_____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
Facility ID	County <i>Dane</i>	County Code	Civil Town/City/ or Village <i>Monona</i>

Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments			
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200				
1 SS	10 24	10 10 9 9	-1	0-3 FILL, silt, yellowish brown, moist	ML			1-3							Soil Sample for VOCs		
			-2													1.9	
			-3														
2 SS	16 24	7 11 8 8	-4	3-10.5 SAND, poorly-graded, fine to medium, yellowish-brown, moist	SP			5-7									
			-5														1.8
			-6														
			-7														
			-8														
			-9														
			-10														

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Paul R...* Firm *Saga Environmental & Engng., Inc.*

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 2

Facility/Project Name <i>Klinker Cleaners - Monona Dr.</i>		License/Permit/Monitoring Number	Boring Number <i>MW-4</i>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>Alex</i> Last Name: Firm: <i>Badger State Drilling</i>		Date Drilling Started <i>10/15/2010</i> m m d d y y y y	Date Drilling Completed <i>10/15/2010</i> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name <i>MW-4</i>	Drilling Method <i>ASA/Air Rotary</i>
		Final Static Water Level <i>851.78</i> Feet MSL	Surface Elevation <i>901.63</i> Feet MSL
			Borehole Diameter <i>8</i> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane _____ N, _____ E		_____ N _____ E _____ S _____ W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Lat _____ ' _____ " _____ " _____ "	
Facility ID _____		County <i>Dane</i>	County Code _____
		Civil Town/City/ or Village <i>Monona</i>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	12 24	6	1	0-7 SILT, FILL, dark brown, moist	ML			1-3						Soil sample for VOCs	
		18	2												7.5
		12	3												
2 SS	16 25	4	4	@ 4' color change to yellowish - brown				5-7						Soil sample for VOCs	
		6	5												7.9
		9	6												
		50/3	7												
			8	7'-45' SANDSTONE BEDROCK, very light brown, alternately weakly cemented and competent											
			9												
			10	Switch to AIR @ 8'											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Tom [Signature]* Firm *Saga Environmental & Engr., Inc.*


This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Klinke Cleaners		License/Permit/Monitoring Number 02-13-551928		Boring Number CMT-3	
Boring Drilled By: Name of crew chief (first, last) and Firm Major Drilling		Date Drilling Started 10/8/2013		Date Drilling Completed	
WI Unique Well No.		DNR Well ID No.		Common Well Name CMT-MW-3	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter inches	
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of		1/4 of Section		T N, R	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Madison	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
	120 120		1	(0.0'-1.25') Asphalt and Fill (AS/Fill): ASPHALT and FILL material.				0.0						
			2	(1.24'-4.0') CLAY (CL): Brown, CLAY with Silt, trace fine grained Sand										
			4	(4.0'-6.0') SILT (SL): Brown Silt with some Clay, large pieces of angular Sandstone.				0.0						
			6	(6.0'-7.5') Sand (SS): White, large pieces of Sandstone with pieces ground to a white dust, Siliceous cement.				1.0						
			8	(7.5'-11.0') SANDSTONE (SS): Light Brown, SANDSTONE, fine to coarse grained, well graded, with Silt trace, medium grained Gravel.				0.0						
	120 120		11	(11.0'-11.25') SANDSTONE (SP): Brown, SAND, fine grained, poorly				0.0						
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Enviroforensics N16 W23390 Stone Ridge Dr Suite G Waukesha WI 53188	Tel: 317-972-7870 Fax:
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Boring Number **CMT-3** Use only as an attachment to Form 4400-122. Page **3** of **10**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			33	No Recovery due to drilling fluid flushing out sample. <i>(continued)</i>										
			34											
			35											
			36											
			37											
			38											
			39											
			40											
	120 120		40		(40.0'-46.0') SANDSTONE (SW): Red and White, SANDSTONE, slightly moist to dry, 20% competent, disaggregates easily with hand.									
			41											
			42											
			43											
			44											
			45											
			46	(46.0'-50.0') SANDSTONE (SW): Brownish-Red, SANDSTONE, when crushed Sandstone is green, brown and red, 40% competent.										
			47											
			48											
			49											
	120 120		50	(50.0'-56.0') SANDSTONE (SP): Brown, SANDSTONE, very fine grained, green staining, poorly graded, 65% competent, disaggregates easily in hand.										
			51											
			52											



APPENDIX C

Laboratory Report

Mr. Oran Day
Enviroforensics
602 N. Capitol Ave.
Suite 210
Indianapolis, IN 46204

January 22, 2015

ENVision Project Number: 2015-41
Client Project Name: #6243

Dear Mr. Day,

Please find the attached analytical report for the samples received January 16, 2015. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in cursive script that reads "David Norris". The signature is written in black ink and is positioned above the printed name.

David Norris

Client Services Manager
EnvisionAir

Client Name: ENVIROFORENSICS
Project ID: 6243
Client Project Manager: ORAN DAY
EnvisionAir Project Number: 2015-41

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START Date</u>	<u>START Time</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Initial Field (in. Hg)</u>	<u>Final Field (in. Hg)</u>	<u>Lab Received (in. Hg)</u>
15-209	SVE-1	A	1/14/15	9:28	1/14/15	9:33	1/16/15	15:15	-28	-4	-4
15-210	SVE-2	A	1/14/15	13:10	1/14/15	13:15	1/16/15	15:15	-28	-4	-4
15-211	SVE-3	A	1/14/15	16:10	1/14/15	16:15	1/16/15	15:15	-29	-4	-4
15-212	SVE-4	A	1/14/15	16:55	1/14/15	17:00	1/16/15	15:15	-29	-4	-4
15-213	SVE-5	A	1/15/15	8:10	1/15/15	8:15	1/16/15	15:15	-29	-4	-4
15-214	SVE-6	A	1/15/15	12:25	1/15/15	12:30	1/16/15	15:15	-29	-4	-4

Client Name: ENVIROFORENSICS

Project ID: 6243

Client Project Manager: ORAN DAY

EnvisionAir Project Number: 2015-41

Analytical Method: TO-15

Analytical Batch: 012115AIR

Client Sample ID: SVE-1

Sample Collection START Date/Time: 1/14/15 9:28

Sample Collection END Date/Time: 1/14/15 9:33

Envision Sample Number: 15-209

Sample Received Date/Time: 1/16/15 15:15

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 63400	63400	1
Tetrachloroethene	1,300,000	102000	2
trans-1,2-Dichloroethene	< 127000	127000	1
Trichlorethene	< 3440	3440	1
Vinyl Chloride	< 4090	4090	1
4-bromofluorobenzene (surrogate)	115%		
Analysis Date/Time:	1-21-15/18:54		
Analyst Initials	tjg		

Client Name: ENVIROFORENSICS

Project ID: 6243

Client Project Manager: ORAN DAY

EnvisionAir Project Number: 2015-41

Analytical Method: TO-15

Analytical Batch: 012115AIR

Client Sample ID: SVE-2

Sample Collection START Date/Time: 1/14/15 13:10

Sample Collection END Date/Time: 1/14/15 13:15

Envision Sample Number: 15-210

Sample Received Date/Time: 1/16/15 15:15

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 63400	63400	1
Tetrachloroethene	7,530,000	319000	3
trans-1,2-Dichloroethene	< 127000	127000	1
Trichlorethene	< 3440	3440	1
Vinyl Chloride	< 4090	4090	1
4-bromofluorobenzene (surrogate)	120%		
Analysis Date/Time:	1-21-15/19:27		
Analyst Initials	tjg		

Client Name: ENVIROFORENSICS

Project ID: 6243

Client Project Manager: ORAN DAY

EnvisionAir Project Number: 2015-41

Analytical Method: TO-15

Analytical Batch: 012115AIR

Client Sample ID: SVE-3

Sample Collection START Date/Time: 1/14/15 16:10

Sample Collection END Date/Time: 1/14/15 16:15

Envision Sample Number: 15-211

Sample Received Date/Time: 1/16/15 15:15

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 63400	63400	1
Tetrachloroethene	1,410,000	102000	2
trans-1,2-Dichloroethene	< 127000	127000	1
Trichlorethene	< 3440	3440	1
Vinyl Chloride	< 4090	4090	1
4-bromofluorobenzene (surrogate)	110%		
Analysis Date/Time:	1-21-15/20:01		
Analyst Initials	tjg		

Client Name: ENVIROFORENSICS

Project ID: 6243

Client Project Manager: ORAN DAY

EnvisionAir Project Number: 2015-41

Analytical Method: TO-15

Analytical Batch: 012115AIR

Client Sample ID: SVE-4

Sample Collection START Date/Time: 1/14/15 16:55

Sample Collection END Date/Time: 1/14/15 17:00

Envision Sample Number: 15-212

Sample Received Date/Time: 1/16/15 15:15

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 63400	63400	1
Tetrachloroethene	983,000	102000	2
trans-1,2-Dichloroethene	< 127000	127000	1
Trichlorethene	< 3440	3440	1
Vinyl Chloride	< 4090	4090	1
4-bromofluorobenzene (surrogate)	113%		
Analysis Date/Time:	1-21-15/20:35		
Analyst Initials	tjg		

Client Name: ENVIROFORENSICS

Project ID: 6243

Client Project Manager: ORAN DAY

EnvisionAir Project Number: 2015-41

Analytical Method: TO-15

Analytical Batch: 012115AIR

Client Sample ID: SVE-5

Sample Collection START Date/Time: 1/15/15 8:10

Sample Collection END Date/Time: 1/15/15 8:15

Envision Sample Number: 15-213

Sample Received Date/Time: 1/16/15 15:15

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 63400	63400	1
Tetrachloroethene	983,000	102000	2
trans-1,2-Dichloroethene	< 127000	127000	1
Trichlorethene	< 3440	3440	1
Vinyl Chloride	< 4090	4090	1
4-bromofluorobenzene (surrogate)	113%		
Analysis Date/Time:	1-21-15/22:20		
Analyst Initials	tjg		

Client Name: ENVIROFORENSICS

Project ID: 6243

Client Project Manager: ORAN DAY

EnvisionAir Project Number: 2015-41

Analytical Method: TO-15

Analytical Batch: 012115AIR

Client Sample ID: SVE-6

Sample Collection START Date/Time: 1/15/15 12:25

Sample Collection END Date/Time: 1/15/15 12:30

Envision Sample Number: 15-214

Sample Received Date/Time: 1/16/15 15:15

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 63400	63400	1
Tetrachloroethene	797,000	102000	2
trans-1,2-Dichloroethene	< 127000	127000	1
Trichlorethene	< 3440	3440	1
Vinyl Chloride	< 4090	4090	1
4-bromofluorobenzene (surrogate)	110%		
Analysis Date/Time:	1-21-15/22:54		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 012115AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichlorethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	105%		
Analysis Date/Time:	1-21-15/16:08		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	9.02	8.91	10	90%	89%	1.2%	
trans-1,2-Dichloroethene	8.82	9.1	10	88%	91%	3.1%	
cis-1,2-Dichloroethene	9.89	10.2	10	99%	102%	3.1%	
Trichlorethene	10.4	10.7	10	104%	107%	2.8%	
Tetrachloroethene	10.2	10.6	10	102%	106%	3.8%	
4-bromofluorobenzene (surrogate)	110%	109%					
Analysis Date/Time:	1-21-15/14:58	1-21-15/15:34					
Analyst Initials	tjg	tjg					

Flag Number

Comments

- 1 Reported value is from a 3200x dilution. TJG 1-22-15
- 2 Reported value is from a 32,000x dilution. TJG 1-22-15
- 3 Reported value is from a 100,000x dilution. TJG 1-22-15

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

20

Client: <u>Enviroforensics</u>	P.O. Number: <u>2015037</u>
Report Address: <u>602 N Capitol Indianapolis, IN</u>	Project Name or Number: <u>6243</u>
Report To: <u>O. Day</u>	Sampled by: <u>N. Eilerman</u>
Phone: <u>317-972-7870</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address: <u>602 N. Capitol Indianapolis</u>	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List



Sampling Type:
 Soil-Gas:
 Sub-Slab:
 Indoor-Air:

www.envision-air.com

Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>				Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
SVE-1	1LL	1/14/15	9:28	1/14/15	9:33				84053	—	-28	-4	-4	15-209
SVE-2	1LC	1/14/15	1310	1/14/15	1315				84044	—	-28	-4	-4	15-210
SVE-3	1LC	1/14/15	1610	1/14/15	1615				517	—	-29	-4	-4	15-211
SVE-4	1LC	1/14/15	1755	1/14/15	1700				83981	—	-29	-4	-4	15-212
SVE-5	1LC	1/15/15	810	1/15/15	815				83943	—	-29	-4	-4	15-213
SVE-6	1LL	1/15/15	1225	1/15/15	1230				83837	—	-29	-4	-4	15-214

Comments: Hard deadline 1/23/15

Relinquished by: <u>[Signature]</u>	Date <u>1/16/15</u>	Time <u>15:15</u>	Received by: <u>[Signature]</u>	Date <u>1/16/15</u>	Time <u>15:15</u>
	<u>1/16/15</u>	<u>15:15</u>		<u>1/16/15</u>	<u>15:15</u>

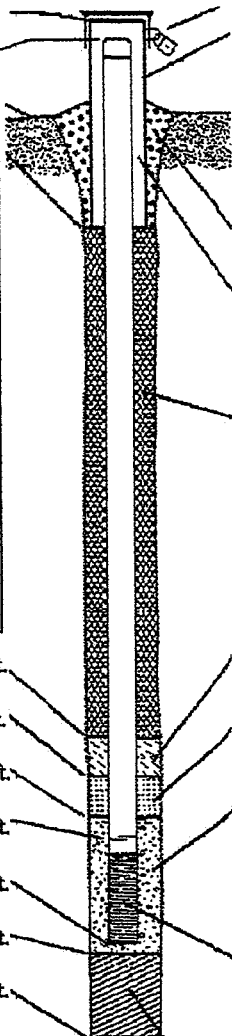


APPENDIX B

SVE Extraction Well and Injection Point Construction Forms

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-1a
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID NA	St. Plane 391,099.76 ft. N, 2,148,788.28 ft. E. (S/C/N)	Date Well Installed 07/02/2015 m m d d y y y y
Type of Well Well Code 57/SV	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/> d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation 901.98 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 901.88 ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: steel plate
D. Surface seal, bottom _____ ft. MSL or 5.3 ft.	3. Surface seal: compacted soil Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft. ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5
Describe _____	b. Volume added _____ ft. ³
17. Source of water (attach analysis, if required): N/A	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5
E. Bentonite seal, top _____ ft. MSL or 5.3 ft.	b. Volume added _____ ft. ³
F. Fine sand, top _____ ft. MSL or 9 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 9 ft.	Monoflex
H. Screen joint, top _____ ft. MSL or 10 ft.	10. Screen material: AIC
I. Well bottom _____ ft. MSL or 25 ft.	a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or 27 ft.	b. Manufacturer Monoflex
K. Borehole, bottom _____ ft. MSL or 27 ft.	c. Slot size: 0.04 in.
L. Borehole, diameter 8 in.	d. Slotted length: 15 ft.
M. O.D. well casing 4.50 in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
N. I.D. well casing 4.03 in.	



I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name SVE-2a	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lar. _____ " Long. _____ or _____		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID NA		St. Plane 391,056-08 ft. N, 2,148,876 49 ft. E. S/C/N		Date Well Installed 07/02/2015 m m d d y y v v v y	
Type of Well Well Code 57/SV		1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Kevin Duerst	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Badger State Drilling	

A. Protective pipe, top elevation	901.74 ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	_____ ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	901.74 ft. MSL	a. Inside diameter:	24 in.
D. Surface seal, bottom	5 ft.	b. Length:	2 ft.
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
13. Sieve analysis performed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
14. Drilling method used:	Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	3. Surface seal:	Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
17. Source of water (attach analysis, if required): N/A		f. How installed:	Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
E. Bentonite seal, top	5 ft. MSL or 5 ft.	6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
F. Fine sand, top	9.2 ft. MSL or 9.2 ft.	7. Fine sand material: Manufacturer, product name & mesh size	a. R.W. Sidley, Inc #5
G. Filter pack, top	9.2 ft. MSL or 9.2 ft.	b. Volume added _____ ft ³	
H. Screen joint, top	10 ft. MSL or 10 ft.	8. Filter pack material: Manufacturer, product name & mesh size	a. R.W. Sidley, Inc #5
I. Well bottom	25 ft. MSL or 25 ft.	b. Volume added _____ ft ³	
J. Filter pack, bottom	25 ft. MSL or 25 ft.	9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
K. Borehole, bottom	45 ft. MSL or 45 ft.	10. Screen material:	Monoflex Other <input type="checkbox"/>
L. Borehole, diameter	12 in.	a. Screen type:	Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
M. O.D. well casing	4.50 in.	b. Manufacturer	Monoflex
N. I.D. well casing	4.03 in.	c. Slot size:	0.04 in.
		d. Slotted length:	15 ft.
		11. Backfill material (below filter pack):	None <input type="checkbox"/> 14 Construction of SVE-2b Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-2b
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID NA	St. Plane 391,056-08 ft. N 2,148,876 ft. E. <input checked="" type="checkbox"/> S/C/N	Date Well Installed m / d / y ____ / ____ / ____
Type of Well Well Code 57/SV	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation 901.74 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 901.74 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 5 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): N/A	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or 26.1 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Monoflex Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 28.6 ft.	10. Screen material: AIC a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 wire wrapped Other <input checked="" type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 28.6 ft.	b. Manufacturer Monoflex c. Slot size: 0.04 in. d. Slotted length: 15 ft.
H. Screen joint, top _____ ft. MSL or 29.5 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input type="checkbox"/>
I. Well bottom _____ ft. MSL or 44.5 ft.	
J. Filter pack, bottom _____ ft. MSL or 45 ft.	
K. Borehole, bottom _____ ft. MSL or 45 ft.	
L. Borehole, diameter 12 in. 12" bit	
M. O.D. well casing 4.50 in.	
N. I.D. well casing 4.03 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-3a
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or " "	Wis. Unique Well No. DNR Well ID No.
Facility ID NA	St. Plane 390, 989.67 ft. N, 2, 448, 779.72 ft. E. (S/CN)	Date Well Installed 07/08/2015 m m d d y y v v v v
Type of Well Well Code 57, SV	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling
Distance from Waste/Source ft. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation 900.84 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation 900.84 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom _____ ft. MSL or 5 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Monoflex Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): NIA	10. Screen material: A/C a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 wire wrapped Other <input checked="" type="checkbox"/> b. Manufacturer Monoflex c. Slot size: 0.04 in. d. Slotted length: 15 ft.
E. Bentonite seal, top _____ ft. MSL or 5 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Construction of SVE-3b Other <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 9 ft.	
G. Filter pack, top _____ ft. MSL or 9 ft.	
H. Screen joint, top _____ ft. MSL or 10 ft.	
I. Well bottom _____ ft. MSL or 25 ft.	
J. Filter pack, bottom _____ ft. MSL or 262 ft.	
K. Borehole, bottom _____ ft. MSL or 49 ft.	
L. Borehole, diameter 12 in. 12" bit	
M. O.D. well casing 4.50 in.	
N. I.D. well casing 4.03 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm **Enviroforensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-36
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID NA	St. Plane 370,989.67 ft. N, 2,148,779.92 ft. E. (SCN)	Date Well Installed 03/08/2015 m m d d y y v v
Type of Well Well Code 57, SV	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation **900.84** ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation **900.84** ft. MSL

D. Surface seal, bottom _____ ft. MSL or **5** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
NIA

1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: **2.4** in.
 b. Length: **2** ft.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe:
 Bentonite 30
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 d. _____ % Bentonite ... Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08

6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
Monoflex Other

10. Screen material: **AIC**
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer **Monoflex**
 c. Slot size: **0.04** in.
 d. Slotted length: **15** ft.

11. Backfill material (below filter pack): None 14
 Other

E. Bentonite seal, top _____ ft. MSL or **26.2** ft.

F. Fine sand, top _____ ft. MSL or **28.9** ft.

G. Filter pack, top _____ ft. MSL or **28.9** ft.

H. Screen joint, top _____ ft. MSL or **30** ft.

I. Well bottom _____ ft. MSL or **45** ft.

J. Filter pack, bottom _____ ft. MSL or **49** ft.

K. Borehole, bottom _____ ft. MSL or **49** ft.

L. Borehole, diameter **10** in.
10 6/4

M. O.D. well casing **4.50** in.

N. I.D. well casing **4.03** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-4a
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. DNR Well ID No.
Facility ID NA	St. Plane 390,989.34 ft. N, 2,148,720.21 ft. E. S/C/N	Date Well Installed 07/10/2015
Type of Well Well Code 57/SV	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling
Distance from Waste/Source ft. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation **900.93** ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation **900.93** ft. MSL

D. Surface seal, bottom _____ ft. MSL or **5** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):
NIA

E. Bentonite seal, top _____ ft. MSL or **5** ft.

F. Fine sand, top _____ ft. MSL or **9** ft.

G. Filter pack, top _____ ft. MSL or **9** ft.

H. Screen joint, top _____ ft. MSL or **10** ft.

I. Well bottom _____ ft. MSL or **25** ft.

J. Filter pack, bottom _____ ft. MSL or **26.2** ft.

K. Borehole, bottom _____ ft. MSL or **44.8** ft.

L. Borehole, diameter **12** in.
12" bit

M. O.D. well casing **4.50** in.

N. I.D. well casing **4.03** in.

1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: **24** in.
 b. Length: **2** ft.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe:
 Bentonite 30
 Other

5. Annular space seal: a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight Bentonite slurry 31
 d. _____ % Bentonite Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08

6. Bentonite seal: a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
Monoflex Other

10. Screen material: **AIC**
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
wire wrapped
 b. Manufacturer **Monoflex**
 c. Slot size: **0.04** in.
 d. Slotted length: **15** ft.

11. Backfill material (below filter pack): None 14
Construction of SVE-4b Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-46
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location h. or	Wis. Unique Well No. DNR Well ID No.
Facility ID NA	St. Plane 390,489.34 ft. N, 2,148,700.2 ft. E. S/C/N	Date Well Installed 02/10/2015 m m d d y y v v
Type of Well Well Code 57/SV	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling
Distance from Waste/Source ft. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number

A. Protective pipe, top elevation 900.93 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 900.93 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 9 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): N/A	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Monoflex Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 26.2 ft.	10. Screen material: PVC a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 29 ft.	b. Manufacturer Monoflex c. Slot size: 0.04 in. d. Slotted length: 15 ft.
G. Filter pack, top _____ ft. MSL or 29 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 29.8 ft.	
I. Well bottom _____ ft. MSL or 44.8 ft.	
J. Filter pack, bottom _____ ft. MSL or 44.8 ft.	
K. Borehole, bottom _____ ft. MSL or 44.8 ft.	
L. Borehole, diameter 12 in. 12" b14	
M. O.D. well casing 4.50 in.	
N. I.D. well casing 4.03 in.	

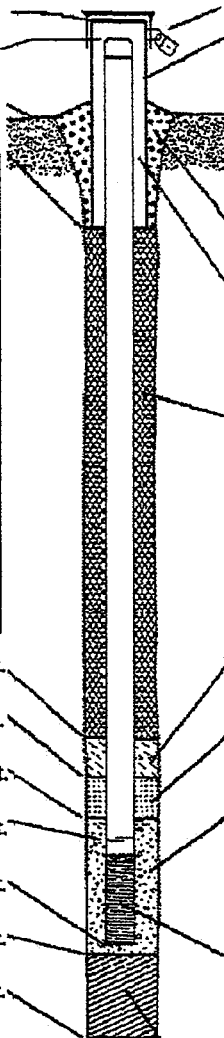
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name SVE-5a	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>	
Facility ID NA		St. Plane 390,718.78 ft. N, 2,148,675.66 ft. E. <input checked="" type="checkbox"/> C/N		Date Well Installed 07/07/2015 m m d d y y v v v	
Type of Well Well Code 57/SV		Section Location of Waste/Source 1/4 of <input type="checkbox"/> 1/4 of Sec. <input type="checkbox"/> T. <input type="checkbox"/> N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling	
Distance from Waste/Source <input type="checkbox"/> ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number <input type="checkbox"/>	

<p>A. Protective pipe, top elevation 700.02 ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation 700.02 ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or 5.3 ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): N/A</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or 5.3 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 8.5 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 8.5 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 9.1 ft.</p> <p>I. Well bottom _____ ft. MSL or 24.1 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 26 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 44.7 ft.</p> <p>L. Borehole diameter 12 in. <small>12" bit</small></p> <p>M. O.D. well casing 4.50 in.</p> <p>N. I.D. well casing 4.03 in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: Monoflex a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/> wire wrapped b. Manufacturer Monoflex c. Slot size: 0.04 in. d. Slotted length: 15 ft.</p> <p>11. Backfill material (below filter pack): Construction of SVE-5b None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature [Signature] Firm **EnviroForensics**

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Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-56
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID NA	St. Plane 390.918.78 ft. N, 2,148,675.64 ft. E. S/C/N	Date Well Installed 07/07/2015 m m d d y y v v v
Type of Well Well Code 57/SV	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. _____ <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation 900.02 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 3 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 900.02 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom 5.3 ft. MSL or _____ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): N/A	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Monoflex Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 26 ft.	10. Screen material: A/C a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 29.2 ft.	b. Manufacturer Monoflex
G. Filter pack, top _____ ft. MSL or 29.2 ft.	c. Slot size: 0.04 in.
H. Screen joint, top _____ ft. MSL or 29.2 ft.	d. Slotted length: 15 ft.
I. Well bottom _____ ft. MSL or 44.7 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or 44.7 ft.	
K. Borehole, bottom _____ ft. MSL or 44.7 ft.	
L. Borehole, diameter 10 in. 10" Bit	
M. O.D. well casing 4.50 in.	
N. I.D. well casing 4.03 in.	


I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm **EnviroForensics**

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Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-6a
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. DNR Well ID No.
Facility ID NA	St. Plane 390,467.80 ft. N. 2,148,618.08 ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed 05/30/2015 m m d d y y v v y
Type of Well Well Code 57/SV	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Kevin Duerse Badger State Drilling
Distance from Waste/Source ft. <input type="checkbox"/> Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number

A. Protective pipe, top elevation 900.21 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 900.21 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 6 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): N/A	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or 6 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Monoflex Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 9.1 ft.	10. Screen material: PVC a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 wire wrapped Other <input checked="" type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 9.1 ft.	b. Manufacturer Monoflex c. Slot size: 0.04 in. d. Slotted length: 15 ft.
H. Screen joint, top _____ ft. MSL or 10 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Construction info of SVE-6b Other <input checked="" type="checkbox"/>
I. Well bottom _____ ft. MSL or 25 ft.	
J. Filter pack, bottom _____ ft. MSL or 26 ft.	
K. Borehole, bottom _____ ft. MSL or 45.8 ft.	
L. Borehole, diameter 12 in.	
M. O.D. well casing 4.50 in.	
N. I.D. well casing 4.03 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **EnviroForensics**

Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name SVE-66	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID NA		St. Plane 390,967.80 ft. N, 2,148,618.08 ft. E. SC/N		Date Well Installed 06/30/2015 m m d d y y v v y y	
Type of Well Well Code 57/SV		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Badger State Drilling	
Distance from Waste/Source ft. <input type="checkbox"/> Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

A. Protective pipe, top elevation **900.21** ft. MSL

B. Well casing, top elevation **1** ft. MSL

C. Land surface elevation **900.21** ft. MSL

D. Surface seal, bottom **6** ft. MSL or **6** ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

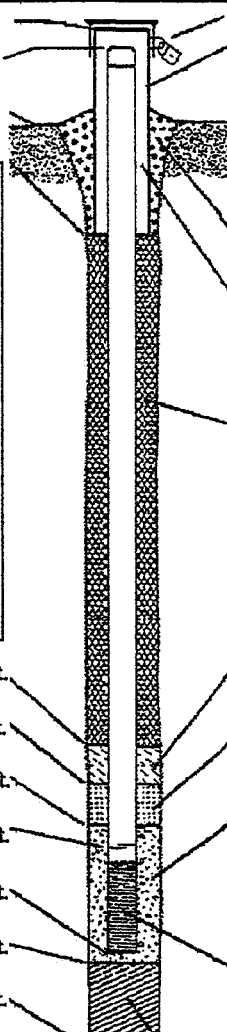
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required):
N/A



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: **24** in.
b. Length: **2** ft.
c. Material: Steel 04
Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 30
Concrete 01
Other

4. Material between well casing and protective pipe:
Bentonite 30
Other

5. Annular space seal:
a. Granular/Chipped Bentonite 33
b. Lbs/gal mud weight ... Bentonite-sand slurry 35
c. Lbs/gal mud weight ... Bentonite slurry 31
d. % Bentonite ... Bentonite-cement grout 50
e. Ft³ volume added for any of the above
f. How installed: Tremie 01
Tremie pumped 02
Gravity 08

6. Bentonite seal:
a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
c. Other

7. Fine sand material: Manufacturer, product name & mesh size
a. **R.W. Sidley, Inc #5**
b. Volume added ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **R.W. Sidley, Inc #5**
b. Volume added ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Monoflex Other

10. Screen material: **PVC**
a. Screen type: Factory cut 11
Continuous slot 01
wire wrapped Other

b. Manufacturer **Monoflex**
c. Slot size: **0.04** in.
d. Slotted length: **15** ft.

11. Backfill material (below filter pack): None 14
Other

E. Bentonite seal, top **26** ft. MSL or **26** ft.

F. Fine sand, top **29.2** ft. MSL or **29.2** ft.

G. Filter pack, top **29.2** ft. MSL or **29.2** ft.

H. Screen joint, top **30** ft. MSL or **30** ft.

I. Well bottom **45** ft. MSL or **45** ft.

J. Filter pack, bottom **45.8** ft. MSL or **45.8** ft.

K. Borehole, bottom **45.8** ft. MSL or **45.8** ft.

L. Borehole, diameter **12.0** in.

M. O.D. well casing **4.50** in.

N. I.D. well casing **4.03** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm **EnviroForensics**

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Facility/Project Name: Klinke Clothing Care Local Grid Location of Well: _____ ft. N. S. E. W. Well Name: SVE-7a
 Facility License, Permit or Monitoring No.: 02-13-551928 Local Grid Origin (estimated:) or Well Location: W. Unique Well No.: _____ DNR Well ID No.: _____
 Facility ID: NA St. Plane: 391,078.14 ft. N. 2,148,671.42 ft. E. S. N. Date Well Installed: 07/14/2015
 Type of Well: _____ Well Code: 57/SV Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ E W Well Installed By: Name (first, last) and Firm: Alex Plummer
 Distance from Waste/Source _____ ft. Enf. Stds. Apply Location of Well Relative to Waste/Source: u Upgradient s Sidegradient d Downgradient n Not Known Gov. Lot Number: _____
 Badger State Drilling

A. Protective pipe, top elevation 901.79 ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation 901.79 ft. MSL
 D. Surface seal, bottom _____ ft. MSL or 5.5 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe: _____

17. Source of water (attach analysis, if required):
NA

E. Bentonite seal, top _____ ft. MSL or 5.5 ft.
 F. Fine sand, top _____ ft. MSL or 9 ft.
 G. Filter pack, top _____ ft. MSL or 9 ft.
 H. Screen joint, top _____ ft. MSL or 10 ft.
 I. Well bottom _____ ft. MSL or 25 ft.
 J. Filter pack, bottom _____ ft. MSL or 26 ft.
 K. Borehole, bottom _____ ft. MSL or 47 ft.
 L. Borehole, diameter 12 in.
 M. O.D. well casing 4.50 in.
 N. I.D. well casing 4.03 in.

1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: 24 in.
 b. Length: 2 ft.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: _____
 3. Surface seal:
 Bentonite 30
 Concrete 01
 Other
 4. Material between well casing and protective pipe:
 Bentonite 30
 Other
 5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 d. _____ % Bentonite ... Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08
 6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other
 7. Fine sand material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
 8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
Monoflex Other
 10. Screen material: AK
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer Monoflex
 c. Slot size: _____ 0.04 in.
 d. Slotted length: 15 ft.
 11. Backfill material (below filter pack): None 14
Construction of SVE-7b Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: EnviroForensics

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-7b
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID NA	St. Plane 391,078.4 ft. N, 2,148,671.42 ft. E. <input checked="" type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> W	Date Well Installed 07/14/2015 m m d d y y v v
Type of Well Well Code 57/SV	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Alex Plummer Badger state Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation 901.79 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 901.79 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 5.5 ft.	3. Surface seal: Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc. #5 b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): NIA	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Monoflex Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 26 ft.	10. Screen material: PVC a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 wire wrapped Other <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 29.2 ft.	b. Manufacturer Monoflex
G. Filter pack, top _____ ft. MSL or 29.2 ft.	c. Slot size: 0.04 in.
H. Screen joint, top _____ ft. MSL or 30 ft.	d. Slotted length: 15 ft.
I. Well bottom _____ ft. MSL or 45 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or 47 ft.	
K. Borehole, bottom _____ ft. MSL or 47 ft.	
L. Borehole, diameter 10 in. 10" bit	
M. O.D. well casing 4.50 in.	
N. I.D. well casing 4.03 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-8a
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID NA	St. Plane 391,085.89 ft. N. 2,148,625.18 ft. E. <input checked="" type="checkbox"/> S/C/N	Date Well Installed 07/13/2015 m m d d y y v v
Type of Well Well Code 57/SV	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Alex Plummer Badger State Drilling
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation 902.45 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 902.45 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 5.9 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5
Describe _____	b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): N/A	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5
E. Bentonite seal, top _____ ft. MSL or 5.9 ft.	b. Volume added _____ ft ³
F. Fine sand, top _____ ft. MSL or 9 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Monoflex Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 9 ft.	10. Screen material: ASC
H. Screen joint, top _____ ft. MSL or 10 ft.	a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 wire wrapped Other <input checked="" type="checkbox"/>
I. Well bottom _____ ft. MSL or 25 ft.	b. Manufacturer Monoflex
J. Filter pack, bottom _____ ft. MSL or 26 ft.	c. Slot size: 0.04 in.
K. Borehole, bottom _____ ft. MSL or 44.2 ft.	d. Slotted length: 15 ft.
L. Borehole, diameter 12 in. 12" bit	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Construction of SVE-8b Other <input checked="" type="checkbox"/>
M. O.D. well casing 4.50 in.	
N. I.D. well casing 4.03 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-8b
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin <input type="checkbox"/> (assumed: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ "Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID NA	St. Plane 391,085.89 ft. N, 2,148,625.18 ft. E. (S)C/N	Date Well Installed 07/13/2015 m m d d y y v v v
Type of Well Well Code 57, SV	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. _____ <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm Alex Plummer Badger State Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation 902.45 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 902.45 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 5.9 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): N/A	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Monoflex Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 26 ft.	10. Screen material: PVC a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 wire wrapped Other <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 28.5 ft.	b. Manufacturer Monoflex c. Slot size: 0.04 in. d. Slotted length: 15 ft.
G. Filter pack, top _____ ft. MSL or 28.5 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 29.2 ft.	
I. Well bottom _____ ft. MSL or 44.2 ft.	
J. Filter pack, bottom _____ ft. MSL or 44.2 ft.	
K. Borehole, bottom _____ ft. MSL or 44.2 ft.	
L. Borehole, diameter 12 in. 12" bit	
M. O.D. well casing 4.50 in.	
N. I.D. well casing 4.03 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm **EnviroForensics**

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Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name SVE-9
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ "Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID NA	St. Plane 391,077.45 ft. N, 2,148,728.53 ft. E. S/C/N	Date Well Installed 03/01/2015 m m d d y y v v v
Type of Well Well Code 57/SV	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm John Badger state Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation **901.99** ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation **901.99** ft. MSL

D. Surface seal, bottom _____ ft. MSL or **1.5** ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):
N/A

1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: **2.4** in.
b. Length: **2** ft.
c. Material: Steel 04
Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Concrete 01
Other **compacted soil**

4. Material between well casing and protective pipe:
Bentonite 30
Other

5. Annular space seal:
a. Granular/Chipped Bentonite 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
c. _____ Lbs/gal mud weight ... Bentonite slurry 31
d. _____ % Bentonite ... Bentonite-cement grout 50
e. _____ ft³ volume added for any of the above
f. How installed: Tremie 01
Tremie pumped 02
Gravity 08

6. Bentonite seal:
a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. **R.W. Sidley, Inc #5**
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **R.W. Sidley, Inc. #5**
b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Monoflex Other

10. Screen material: **A/C**
a. Screen type: Factory cut 11
Continuous slot 01
Other **wire wrapped**

b. Manufacturer **Monoflex**
c. Slot size: **0.04** in.
d. Slotted length: **15** ft.

11. Backfill material (below filter pack): None 14
Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name SVE-10	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID NA		St. Plane 391,098.05 ft. N, 148,779.96 ft. E. <input checked="" type="checkbox"/> S/C/N		Date Well Installed 07/01/2015 m m d d y y v v	
Type of Well Well Code 57/SV		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Badger State Drilling	
Distance from Waste/Source <input type="checkbox"/> ft. <input type="checkbox"/> Enfl. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

A. Protective pipe, top elevation 901.85 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 24 in. b. Length: 2 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 901.85 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 1.3 ft.	3. Surface seal: compacted soil Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): N/A	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or 1.3 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Monoflex Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 2 ft.	10. Screen material: RIC a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 wire wrapped Other <input checked="" type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 2 ft.	b. Manufacturer Monoflex
H. Screen joint, top _____ ft. MSL or 2.6 ft.	c. Slot size: 0.04 in.
I. Well bottom _____ ft. MSL or 7.6 ft.	d. Slotted length: 15 ft.
J. Filter pack, bottom _____ ft. MSL or 7.6 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or 7.6 ft.	
L. Borehole, diameter 8 in.	
M. O.D. well casing 4.50 in.	
N. I.D. well casing 4.03 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.



APPENDIX C

SVE Operation, Maintenance, and Monitoring Plan



**SOIL VAPOR EXTRACTION
OPERATION AND MAINTENANCE PLAN**

**KLINKE CLEANERS
4518 MONONA DRIVE
MADISON, WISCONSIN 53716
WDNR BRRTS# 02-13-551928**

December 20, 2016

Prepared For:

Klinke Clothing Care, Inc.
4518 Monona Drive
Madison, Wisconsin 53716

Prepared By:

Environmental Forensic Investigations, Inc.
N16 W23390 Stone Ridge Drive, Suite G
Waukesha, WI 53188
Phone: (317) 972-7870
www.enviroforensics.com

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2.1	Extraction Wells and Conveyance Piping.....	2
2.2	Mechanical Components.....	3
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FIGURES

1	Soil Vapor Extraction System Layout
2	Remediation System Details
3	System Process and Instrumentation Diagram
4	Process and Instrumentation Legend

APPENDICES

A	SVE System Operation and Maintenance Log
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1.0 INTRODUCTION

A soil vapor extraction (SVE) system has been installed at the Klinke Cleaners facility located at 4518 Monona Drive in Madison, Wisconsin (Site). The system is designed to remove tetrachloroethene (PCE) and associated vapors from the vadose zone in both unconsolidated sediment and bedrock. Proper operation and maintenance of the SVE system is necessary to document remedial progress and to optimize system performance. This Operation and Maintenance plan (O&M Plan) has been prepared in accordance with Wisconsin Administrative Code (WAC) Chapter NR 724.

1.1 Site Information and Contacts

Property Information:

County: Dane

PLSS Location: SW 1/4 of the NW 1/4 of Sec 16, T07N, R10E

WTM Coords: X = 574933, Y = 288912

City of Madison Parcel #: 071016207013

Property Owner/Responsible Party Information:

Owner Name: Klinke Monona Corporate, LLC

Address: 4518 Monona Drive, Madison, Wisconsin 53716

Contacts: Steve Klinke/ Richard Klinke

Telephone: 608-222-6060

E-mail Address: steve@klinkecleaners.com/ richard@klinkecleaners.com

Consultant Information:

Company Name: Environmental Forensic Investigations, Inc.

Address: N16W23390 Stone Ridge Drive, Suite G, Waukesha, WI 53188

Contacts: Brad Lewis - Senior. Project Manager/ Brian Kappen – Project Manager

Telephone: 317-972-7870

E-mail Address: blewis@enviroforensics.com/ bkappen@enviroforensics.com

WDNR Project Manager: Mike Schmoller

Address: 3911 Fish Hatchery Road, Fitchburg, WI 54711

Telephone: 608-275-3303

Email: michael.schmoller@wisconsin.gov

2.0 SYSTEM DESIGN

2.1 Extraction Wells and Conveyance Piping

The SVE system consists of eight (8) nested pairs of bedrock extraction wells, and two (2) single extraction wells in the overburden sediment. Subsurface PVC conveyance piping connects the extraction wells to a blower and associated equipment and controls housed inside the southeast part of the Site building. In-line sumps consisting of capped sections of 12-inch diameter PVC pipe are positioned along the conveyance piping to collect condensate. A pump can be lowered into the sumps via vertical pipes housed in a flush-mount well vault.

Extraction wells SVE-1A/B through SVE-8A/B are screened in the sandstone bedrock. Extraction wells SVE-9 and SVE-10 are screened in the overburden sediment. All extraction wells are constructed of 4-inch diameter Schedule 40 PVC pipe and Vee-Wire continuous wrap screen with 0.020-inch slots. The nested pairs of SVE wells include one (1) well screened from 10 to 25 feet below ground surface (bgs) and a deeper well screened from 30 to 45 feet bgs. The overburden SVE wells are screened from 3 to 8 feet bgs.

The conveyance piping is divided into five (5) separate trunk lines so that specific areas of the Site can be targeted or bypassed as needed. The trunk lines are connected to the following well sets, respectively:

- SVE-1A/B and SVE-2A/B
- SVE-3A/B and SVE-4A/B
- SVE-5A/B and SVE-6A/B
- SVE-7A/B and SVE-8A/B
- SVE-9 and SVE-10.

The extraction well locations and conveyance piping layout are depicted in **Figure 1**. The trunk lines servicing these well sets are controlled by ball valves at the piping manifold located next to the blower. Individual gate valves are also installed in each wellhead so that the shallow or deep zone can be targeted. Diagrams of typical trench and wellhead configurations are depicted on **Figure 2**. However, the trench sections to the overburden wells are approximately 2-feet deep to mitigate the potential for SVE short circuiting to the trench backfill.

Flush-mount, traffic-rated steel vaults protect each wellhead and provide access to valves and vacuum measurement ports. The well vault sizes are 2 feet by 2 feet for single wells and 3 feet by 3 feet for the nested well pairs.

2.2 Mechanical Components

The mechanical system consists of the following components:

- Model EB219OFC Kaeser Omega Blower Package
 - 50 hp Totally Enclosed Fan Cooled (TEFC) premium efficiency drive motor
 - Inlet silencer with filter
 - Fully enclosed powder coated and insulated steel cabinet
 - Sygma 2 blower control with Variable Frequency Drive
- Custom built air-water separator
- Custom built Remote Telemetry Unit (RTU) with Sensaphone SCADA 3000, various process controls and sensors in custom built enclosure with Human Machine Interface (HMI) and Real-Time Screen (RTS)
- Granular activated carbon vessel for treatment of water discharge

The SVE exhaust stack is attached to the side of the 2-story part of the building and extends to 27 feet above ground surface. A system process and instrumentation diagram and an associated legend are presented on **Figures 3 and 4**, respectively.

3.0 OPERATION AND MAINTENANCE

Operation and Maintenance (O&M) activities are conducted by EnviroForensics personnel to:

- Maximize system efficiency and contaminant mass removal rates;
- Keep the mechanical equipment in good working order; and
- Collect data to track system performance and determine a timeframe for shutdown.

3.1 System Operation

The SVE system is equipped with remote control that allows operators to program certain functions and monitor operation of system components from EnviroForensics' offices. Operators are automatically notified of system shutdowns. Operation and maintenance problems will be addressed remotely following the automatic notifications, if possible. Alternatively, a technician will be dispatched to perform maintenance activities as soon as possible.

Initial system commissioning data collected during startup indicated that the maximum desired exhaust temperature of 180°F was exceeded if the system vacuum operated above 11 inches of mercury (in Hg). Subsurface monitoring data indicated that the design radius of influence was achieved at lower vacuums, so 11 in Hg was established as the maximum operating vacuum for the system.

The SVE system is designed to allow various operational configurations. Each of the 18 extraction wells can be disconnected from service by closing the gate valve installed at the wellhead. This design allows the operators to target specific areas and/or depths as the remediation progresses to maximize efficiency. To start, vacuum has been applied to the shallow and deep zones separately on an alternating schedule. Operational changes shall be made as needed during the maintenance visits described below.

Water generated by the system is pre-treated via pumping through an activated carbon vessel, and discharged to the sanitary sewer under a City of Madison permit. Discharge samples shall be collected as needed from the post-treatment sampling port to demonstrate the effectiveness of the carbon treatment.

3.2 System Maintenance and Monitoring

Samples of the SVE system air emissions are collected from a port in the exhaust stack just above the blower to calculate mass removal rates and cumulative mass removed; and to determine operational changes to optimize system performance. The samples are analyzed for select VOCs by EPA test method TO-15. Performance monitoring will be conducted in accordance with the following emissions testing schedule required under WAC Chapter 419.07:

- Once each day for the first 3 days of system operation;
- Weekly for the next 3 weeks; and
- Monthly thereafter.

Long-term routine maintenance activities will be performed monthly and include the following:

- Removing water from the in-line sumps;
- Addressing system shutdowns or operational issues;
- Adjusting the operational configuration of the system (i.e., open or close wellhead or trunk line valves); and
- Recording operational parameters and vapor concentrations to evaluate efficiency:
 - Effluent VOC vapor concentration;
 - System runtime;
 - System vacuum (max 11 in Hg);
 - Wellhead vacuum;
 - Vacuum at monitoring points;
 - Flow rate; and
 - Exhaust temperature (max 180°F).

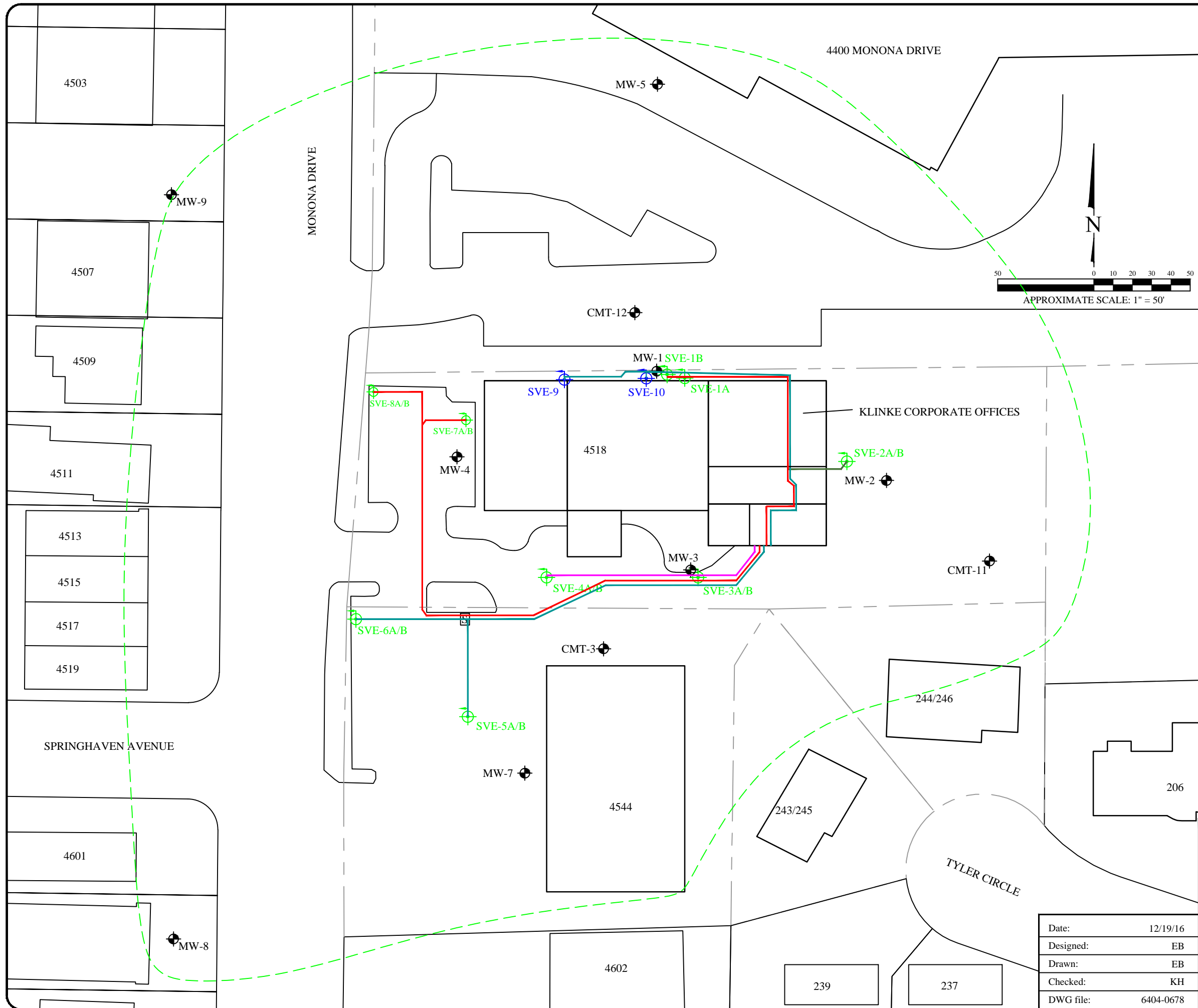


In addition, maintenance on the blower is performed periodically by a representative of the manufacturer. O&M information is recorded on the log presented in **Appendix A**.

4.0 REPORTING

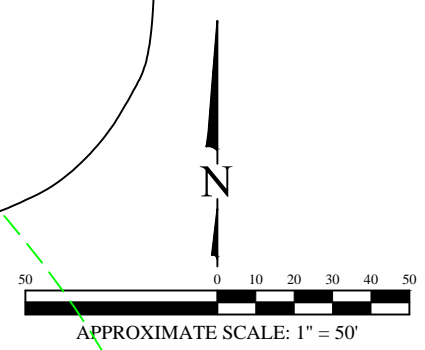
Semi-annual remediation progress reports will be submitted to WDNR, as required, using the Remediation Site Operation, Maintenance, Monitoring & Optimization Report (WDNR Form 4400-194). The reports will include information on operational configuration during the reporting period, figures, tables, and graphs showing time versus contaminant removal and cumulative contaminant removal. The reporting periods each year are from January 1 to June 30 and July 1 to December 31. The deadline for submittal of progress reports is 30 days after the end of each reporting period. The first progress report was submitted on July 28, 2016.

FIGURES



Legend

- Property boundary
- Underground SVE piping
- - - SVE bedrock well zone of influence
- ⊕ SVE wells - bedrock nest
(One 4-inch SVE well screened 10-25 ft. One 4-inch SVE well screened 30-45 ft.)
- ⊕ SVE wells - overburden well
(One 4-inch SVE well screened 5 feet above bedrock)
- MW-1 ⊕ Monitoring Well Location
- ⊠ Sump



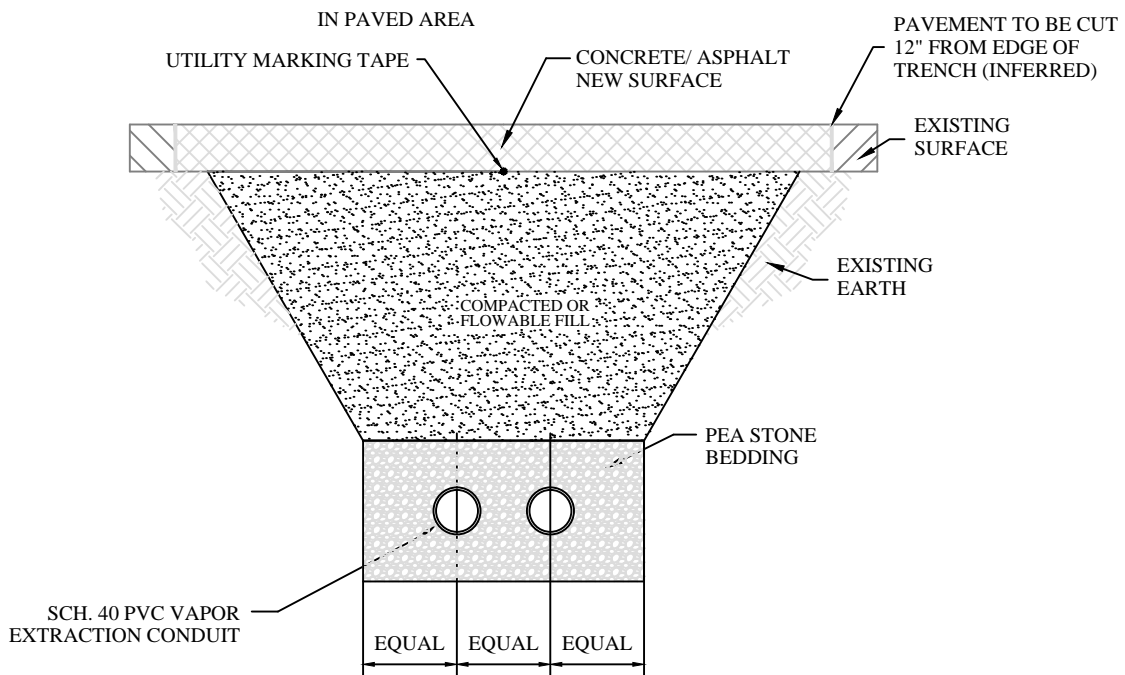
REMEDIATION SYSTEM LAYOUT

Klinke Cleaners
4518 Monona Dr.
Madison, WI

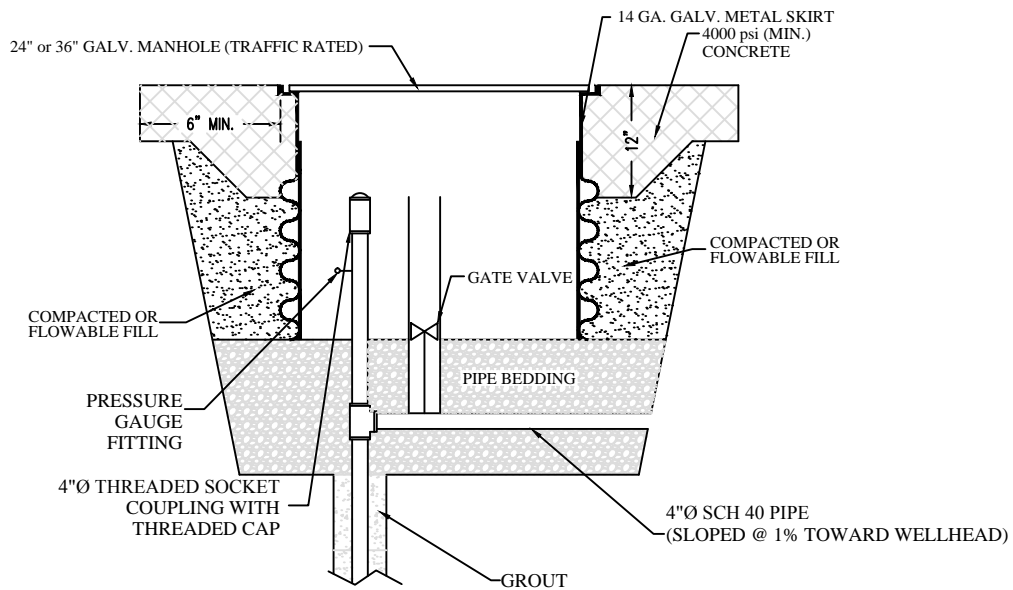
Date:	12/19/16
Designed:	EB
Drawn:	EB
Checked:	KH
DWG file:	6404-0678

ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure	1
Project	6404



SVE WELLHEAD



No.	Date	Revision	Approved

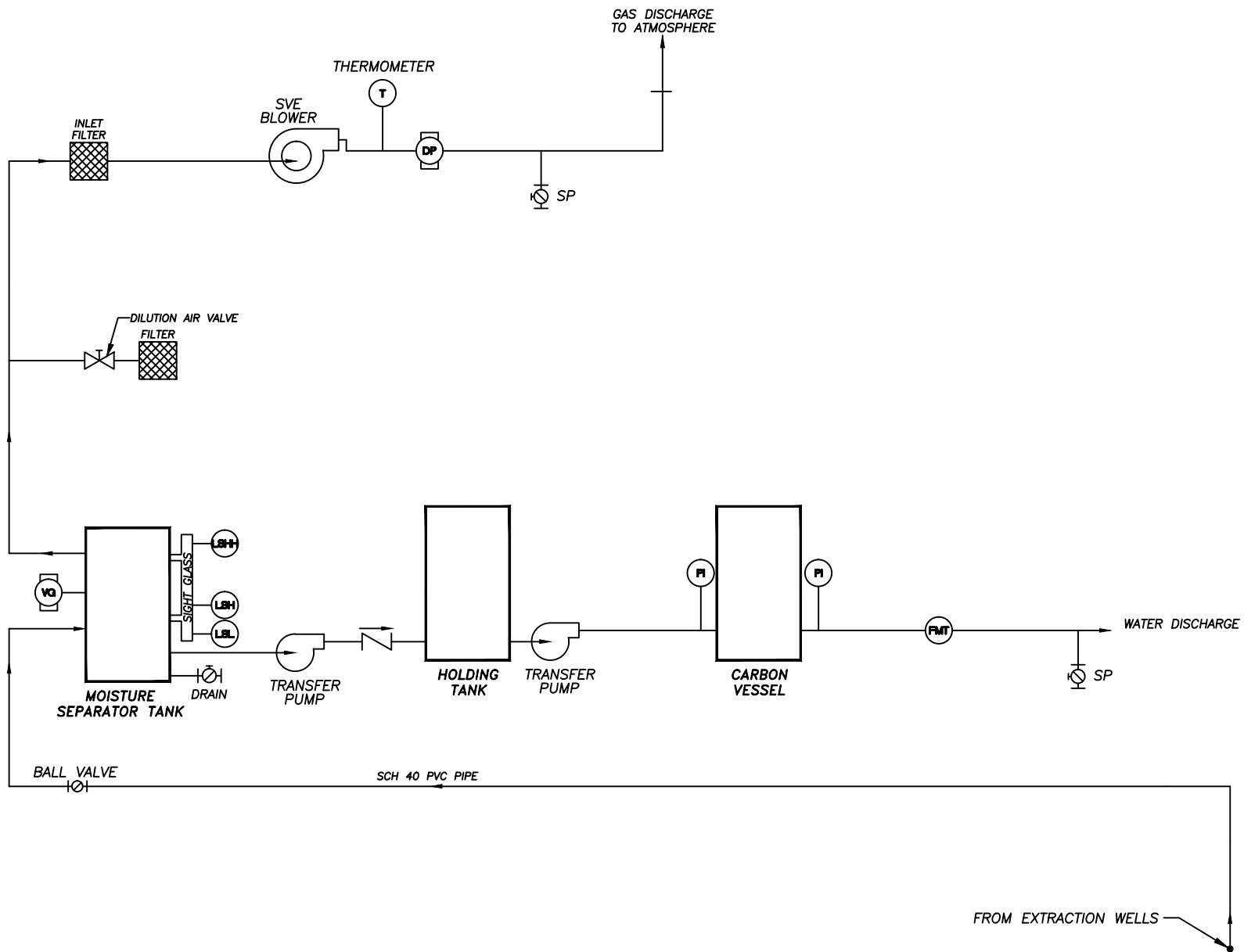
ENVIROforensics
 ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
 825 North Capitol Avenue • Indianapolis, IN 46204
 EnviroForensics.com

Date: 12/1/16
 Designed: EB
 Drawn: EB
 Checked: OD
 DWG file: 6404-0041

REMEDIATION SYSTEM DETAILS

Klinke Cleaners
 4518 Monona Dr.
 Madison, WI

Figure	2
Project	6404



No.	Date	Revision	Approved

ENVIROforensics
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 825 North Capitol Avenue • Indianapolis, IN 46204
 EnviroForensics.com










Date:	12/1/16
Designed:	EB
Drawn:	EB
Checked:	OD
DWG file:	6404-0045

SVE SYSTEM PROCESS AND INSTRUMENTATION DIAGRAM

Klinke Cleaners
 4518 Monona Dr.
 Madison, WI

Figure	3
Project	6404



VALVE AND PIPING SYMBOLS

	GATE VALVE
	SOLENOID VALVE
	CHECK VALVE
	BALL VALVE
	SAMPLING PORT
	EXHAUST TO ATMOSPHERE (INSIDE)
	EXHAUST TO ATMOSPHERE (OUTSIDE)
	PRESSURE RELIEF VALVE
	VACUUM GAUGE




ABBREVIATIONS

DP	DIFFERENTIAL PRESSURE	M	MOTOR
DO	DISSOLVED OXYGEN	NO	NORMALLY OPEN
FC	FAIL CLOSED	NC	NORMALLY CLOSED
FI	FAIL INDETERMINATE	P	PRESSURE
FL	FAIL LOCKED	PI	PRESSURE INDICATOR
FO	FAIL OPEN	PS	PRESSURE SWITCH
FQ	FAIL QUANTIFIER	PT	PRESSURE TRANSMITTER
HOA	HAND-OFF-AUTOMATIC	PRV	PRESSURE RELIEF VALVE
HS	HAND SWITCH	PSH	PRESSURE SWITCH
IL	INDICATOR LIGHT		- HIGH
I/I	CURRENT-TO-CURRENT	SG	SIGHT GLASS
I/P	CURRENT-TO-PNEUMATIC	SP	SAMPLING PORT
KC	PROGRAM CONTROLLER	UA	UNIVERSAL ALARM
LC	LEVEL CONTROLLER	FMT	FLOW METER TOTALIZER
LEL	LOWER EXPLOSIVE LIMIT	AFM	AIR FLOW METER
LR	LOCAL-REMOTE		
LS	LEVEL SWITCH		
LSHH	} LIQUID SWITCH		
LSL			
LSH			









EQUIPMENT SYMBOLS

	PUMP
	BLOWER

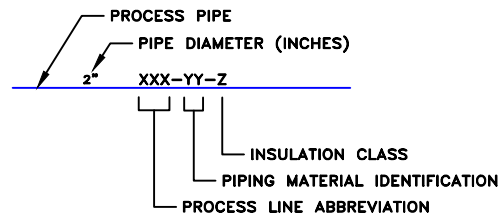
LINE SYMBOLS

	PROCESS PIPES OR CHANNELS
	ELECTRIC SIGNAL
	COMPRESSED AIR LINE

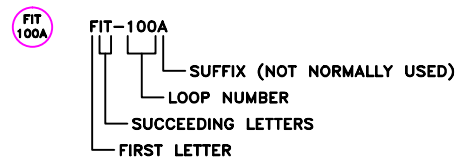
GENERAL INSTRUMENT SYMBOLS

		LOCALLY MOUNTED
		PANEL MOUNTED
		REAR-OF-PANEL MOUNTED
		INTERLOCK
		PURGE

PROCESS PIPING IDENTIFICATION



INSTRUMENT IDENTIFICATION



No.	Date	Revision	Approved



APPENDIX A

SVE System Operation and Maintenance Log



APPENDIX D

SVE Startup Laboratory Reports



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

January 15, 2016

EnvisionAir Project Number: 2016-10
Client Project Name: 6404

Dear Mr. Kappen,

Please find the attached analytical report for the samples received January 13, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6404
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2016-10

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>		<u>START</u>		<u>END</u>		<u>END</u>		<u>Lab</u>			
			<u>Date</u>	<u>Time</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Initial Field</u>	<u>Final Field</u>	<u>Received</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
16-71	6404-SVE-EX	A	1/11/16	16:33	1/11/16	16:38	1/13/16	10:30	-29	-3	-3			
16-72	6404-SVE-BNORTH	A	1/11/16	14:00	1/12/16	14:02	1/13/16	10:30	-29	-4	-4			
16-73	6404-SVE-BSOUTH	A	1/11/16	14:00	1/12/16	14:00	1/13/16	10:30	-29	-4	-4			



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6404

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-10

Analytical Method: TO-15
Analytical Batch: 011516AIR

Client Sample ID: 6404-SVE-EX

Sample Collection START Date/Time: 1/11/16 16:33

Sample Collection END Date/Time: 1/11/16 16:38

Envision Sample Number: 16-71

Sample Received Date/Time: 1/13/16 10:30

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 3170	3170	1
Tetrachloroethene	1,200,000	40800	2
trans-1,2-Dichloroethene	< 3170	3170	1
Trichlorethene	< 860	860	1
Vinyl Chloride	< 511	511	1
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	01-15-16/15:25		
Analyst Initials	tjg		



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6404

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-10

Analytical Method: TO-15
Analytical Batch: 011516AIR

Client Sample ID: 6404-SVE-BNORTH **Sample Collection START Date/Time:** 1/11/16 14:00
Envision Sample Number: 16-72 **Sample Collection END Date/Time:** 1/12/16 14:02
Sample Matrix: AIR **Sample Received Date/Time:** 1/13/16 10:30

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 3.96	3.96	
Tetrachloroethene	20.3	3.19	
trans-1,2-Dichloroethene	< 3.96	3.96	
Trichlorethene	< 1.07	1.07	
Vinyl Chloride	< 0.64	0.64	
4-bromofluorobenzene (surrogate)	85%		
Analysis Date/Time:	1-15-16/13:39		
Analyst Initials	tjg		



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6404

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-10

Analytical Method: TO-15
Analytical Batch: 011516AIR

Client Sample ID: 6404-SVE-BSOUTH **Sample Collection START Date/Time:** 1/11/16 14:00
Envision Sample Number: 16-73 **Sample Collection END Date/Time:** 1/12/16 14:00
Sample Matrix: AIR **Sample Received Date/Time:** 1/13/16 10:30

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 3.96	3.96	
Tetrachloroethene	28.9	3.19	
trans-1,2-Dichloroethene	< 3.96	3.96	
Trichlorethene	1.07	1.07	
Vinyl Chloride	< 0.64	0.64	
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	1-15-16/14:14		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 011516AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichlorethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	86%		
Analysis Date/Time:	1-15-16/12:57		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
cis-1,2-Dichloroethene	11.4	10.7	10	114%	107%	6.3%	
Tetrachloroethene	9.86	10.4	10	99%	104%	5.3%	
trans-1,2-Dichloroethene	10.9	11.2	10	109%	112%	2.7%	
Trichlorethene	9.83	9.78	10	98%	98%	0.5%	
Vinyl Chloride	9.37	8.94	10	94%	89%	4.7%	
4-bromofluorobenzene (surrogate)	89%	90%					
Analysis Date/Time:	1-15-16/11:47	1-15-16/12:25					
Analyst Initials	tjg	tjg					



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Flag Number

Comments

- | | |
|---|--|
| 1 | Reported value is from an 800x dilution. TJG 1-15-16 |
| 2 | Reported value is from an 12800x dilution. TJG 1-15-16 |



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

February 17, 2016

EnvisionAir Project Number: 2016-79
Client Project Name: 6404

Dear Mr. Kappen,

Please find the attached analytical report for the samples received February 10, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6404
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2016-79

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Initial Field</u>	<u>Final Field</u>	<u>Lab</u>
			<u>Date</u>	<u>Time</u>							<u>Collected:</u>
16-348	6404-SVE-EX	A	2/4/16	10:25	2/4/16	10:32	2/10/16	15:00	-29	-2	-2
16-349	6404-SVE-BNORTH	A	2/4/16	10:50	2/5/16	10:50	2/10/16	15:00	-29	-6	-6
16-350	6404-SVE-BSOUTH	A	2/4/16	10:53	2/5/16	10:53	2/10/16	15:00	-29	-6.5	-6.5
16-351	6404-SVE-EX-2	A	2/5/16	10:35	2/5/16	10:41	2/10/16	15:00	-29	-2	-2



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6404

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-79

Analytical Method: TO-15
Analytical Batch: 021516AIR

Client Sample ID: 6404-SVE-EX

Sample Collection START Date/Time: 2/4/16 10:25

Sample Collection END Date/Time: 2/4/16 10:32

Envision Sample Number: 16-348

Sample Received Date/Time: 2/10/16 15:00

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	117	39.6	1
Tetrachloroethene	195,000	20400	2
trans-1,2-Dichloroethene	< 39.6	39.6	1
Trichlorethene	368	10.7	1
Vinyl Chloride	< 6.4	6.4	1
4-bromofluorobenzene (surrogate)	104%		
Analysis Date/Time:	02-15-16/15:20		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6404

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-79

Analytical Method: TO-15
Analytical Batch: 021516AIR

Client Sample ID: 6404-SVE-BNORTH **Sample Collection START Date/Time:** 2/4/16 10:50
Envision Sample Number: 16-349 **Sample Collection END Date/Time:** 2/5/16 10:50
Sample Matrix: AIR **Sample Received Date/Time:** 2/10/16 15:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 3.96	3.96	
Tetrachloroethene	84.2	3.19	
trans-1,2-Dichloroethene	< 3.96	3.96	
Trichlorethene	< 1.07	1.07	
Vinyl Chloride	< 0.64	0.64	
4-bromofluorobenzene (surrogate)	115%		
Analysis Date/Time:	02-15-16/14:05		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6404

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-79

Analytical Method: TO-15
Analytical Batch: 021516AIR

Client Sample ID: 6404-SVE-BSOUTH **Sample Collection START Date/Time:** 2/4/16 10:53
Envision Sample Number: 16-350 **Sample Collection END Date/Time:** 2/5/16 10:53
Sample Matrix: AIR **Sample Received Date/Time:** 2/10/16 15:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 39.6	39.6	1
Tetrachloroethene	105	31.9	1
trans-1,2-Dichloroethene	< 39.6	39.6	1
Trichlorethene	< 10.7	10.7	1
Vinyl Chloride	< 6.4	6.4	1
4-bromofluorobenzene (surrogate)	122%		
Analysis Date/Time:	02-15-16/17:53		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6404

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-79

Analytical Method: TO-15
Analytical Batch: 021516AIR

Client Sample ID: 6404-SVE-EX-2

Sample Collection START Date/Time: 2/5/16 10:35

Sample Collection END Date/Time: 2/5/16 10:41

Envision Sample Number: 16-351

Sample Received Date/Time: 2/10/16 15:00

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	89.2	39.6	1
Tetrachloroethene	192,000	10200	3
trans-1,2-Dichloroethene	< 39.6	39.6	1
Trichlorethene	277	10.7	1
Vinyl Chloride	< 6.4	6.4	1
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	02-15-16/18:32		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 021516AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichlorethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	108%		
Analysis Date/Time:	02-15-16/12:00		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
cis-1,2-Dichloroethene	9.64	10.1	10	96%	101%	4.7%	
Tetrachloroethene	10.8	10.7	10	108%	107%	0.9%	
trans-1,2-Dichloroethene	9.64	10	10	96%	100%	3.7%	
Trichlorethene	10.9	11.3	10	109%	113%	3.6%	
Vinyl Chloride	9.78	10.6	10	98%	106%	8.0%	
4-bromofluorobenzene (surrogate)	100%	98%					
Analysis Date/Time:	02-15-16/10:37	02-15-16/21:52					
Analyst Initials	tjg	tjg					



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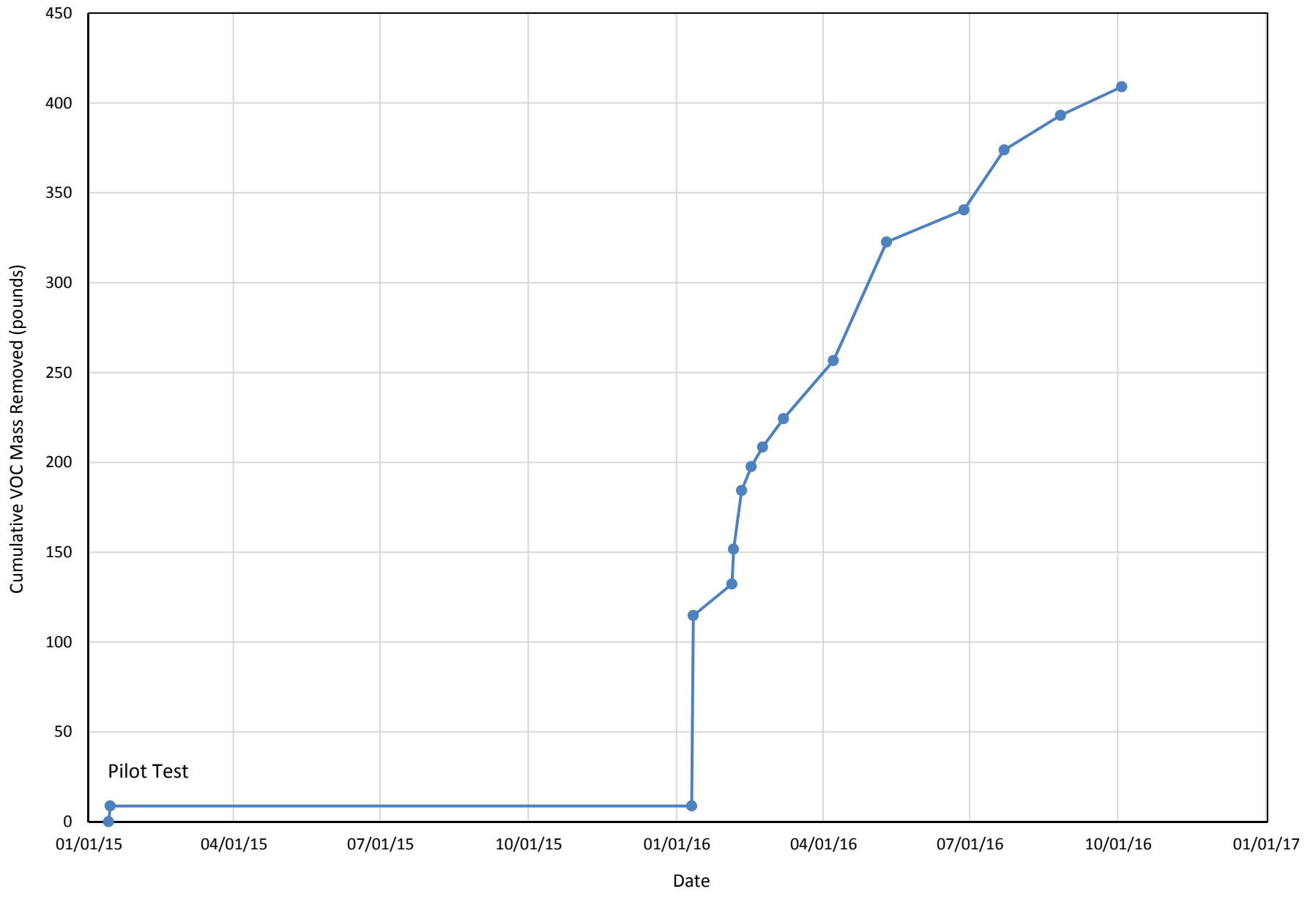
<u>Flag Number</u>	<u>Comments</u>
1	Reported value is from a 10x dilution. TJG 02-17-16
2	Reported value is from a 6400x dilution. TJG 02-17-16
3	Reported value is from a 3200x dilution. TJG 02-17-16



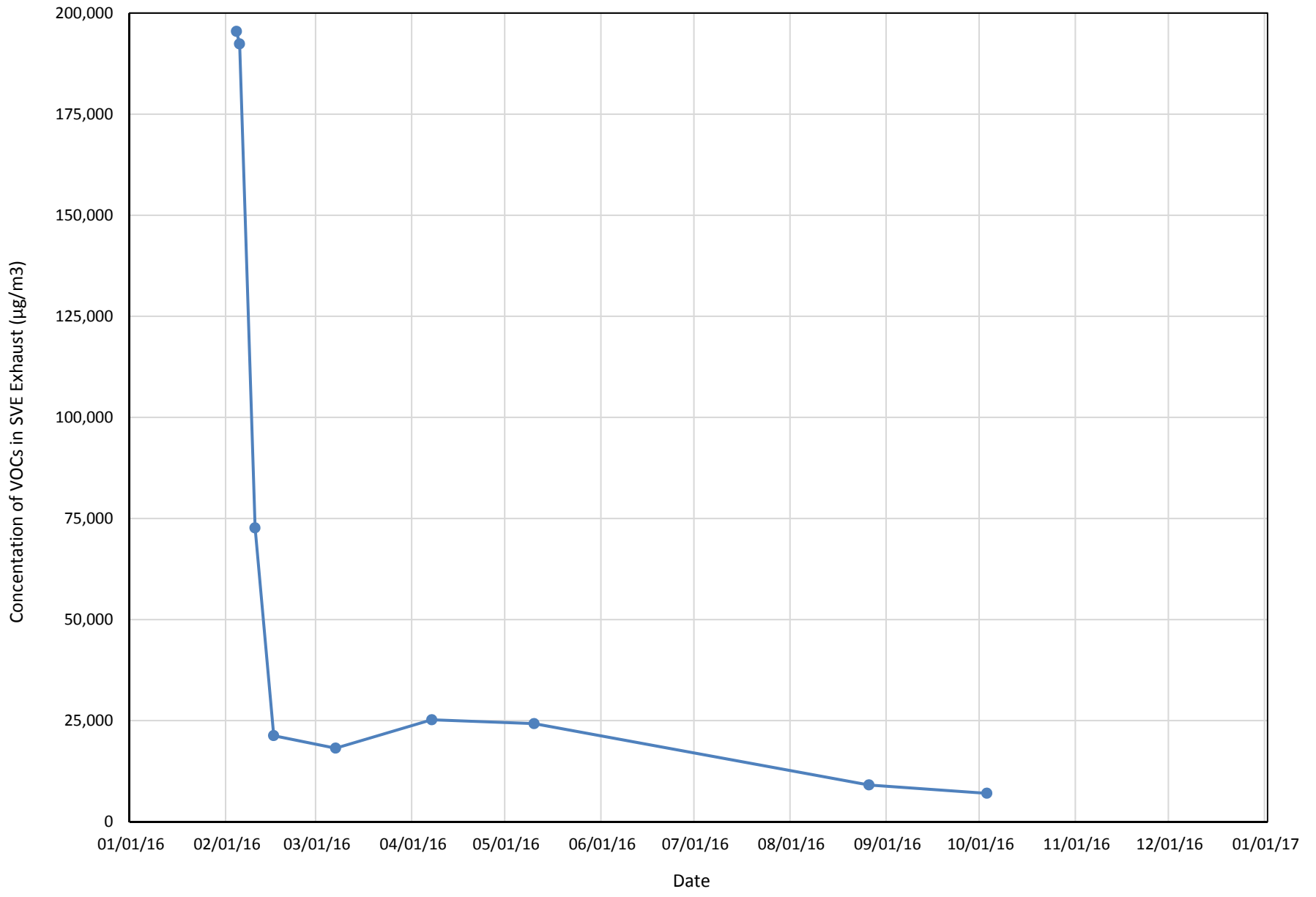
APPENDIX E

SVE Performance Monitoring Graphs

Cumulative VOC Mass Removed



Vapor Phase VOC Concentration Trend





APPENDIX F

Technical Descriptions of Groundwater Remediation Products

PlumeStop® Liquid Activated Carbon™ Technical Description

PlumeStop Liquid Activated Carbon is an innovative groundwater remediation technology designed to rapidly remove and permanently degrade groundwater contaminants. PlumeStop is composed of very fine particles of activated carbon (1-2µm) suspended in water through the use of unique organic polymer dispersion chemistry. Once in the subsurface, the material behaves as a colloidal biomatrix, binding to the aquifer matrix, rapidly removing contaminants from groundwater, and expediting permanent contaminant biodegradation.

This unique remediation technology accomplishes treatment with the use of highly dispersible, fast-acting, sorption-based technology, capturing and concentrating dissolved-phase contaminants within its matrix-like structure. Once contaminants are sorbed onto the regenerative matrix, biodegradation processes achieve complete remediation at an accelerated rate.



Distribution of PlumeStop in water

To see a list of treatable contaminants with the use of PlumeStop, view the [Range of Treatable Contaminants Guide](#).

Chemical Composition

- Water - CAS# 7732-18-5
- Colloidal Activated Carbon ≤2.5 - CAS# µm 7440-44-0
- Proprietary Additives

Properties

- Physical state: Liquid
- Form: Aqueous suspension
- Color: Black
- Odor: Odorless
- pH: 8 - 10

Storage and Handling Guidelines

Storage

- Store in original tightly closed container
- Store away from incompatible materials
- Protect from freezing

Handling

- Avoid contact with skin and eyes
- Avoid prolonged exposure
- Observe good industrial hygiene practices
- Wash thoroughly after handling
- Wear appropriate personal protective equipment

PlumeStop® Liquid Activated Carbon™ Technical Description

Applications

PlumeStop is easily applied into the subsurface through gravity-feed or low-pressure injection.

Health and Safety

Wash hands after handling. Dispose of waste and residues in accordance with local authority requirements. Please review the Material Safety Data Sheet for additional storage, usage, and handling requirements here: [PlumeStop SDS](#).



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949.366.8000

3-D Microemulsion® Factory Emulsified Technical Description

3-D Microemulsion (3DME®) is comprised of a patented molecular structure containing oleic acids (i.e., oil component) and lactates/poly lactates, which are molecularly bound to one another (figure 1). The 3DME molecule contains both a soluble (hydrophilic) and in-soluble (lipophilic) region. These two regions of the molecule are designed to be balanced in size and relative strength. The balanced hydrophilic/lipophilic regions of 3DME result in an electron donor with physical properties allowing it to initially adsorb to the aquifer material in the area of application, then slowly redistribute via very small 3DME “bundles” called micelles. These 3DME micelles spontaneously form within sections of the aquifer where concentrations of 3DME reach several hundred parts per million. The micelles’ small size and mobility allow it to move with groundwater flow through the aquifer matrix, passing easily through the pore throats in between soil grains resulting in the further redistribution of 3DME within the aquifer. This allows for advective distribution of the oleic acids which are otherwise insoluble and unable to distribute in this manner, allowing for increased persistence of the lactate/poly lactates component due to their initial attachment to the oleic acids.

Due to its patented molecular structure, 3DME offers far greater transport when compared to blended emulsified vegetable oil (EVO) products, which fail to distribute beyond the limits of pumping. 3DME also provides greater persistence when compared to soluble substrates such as lactates or simple sugars. The 3DME molecular structures capitalize on the best features of the two electron-donor types while at the same time, minimize their limitations. 3DME is delivered to the site as a ready-to-apply emulsion that is simply diluted with water to generate a large volume of a 3DME colloidal suspension.

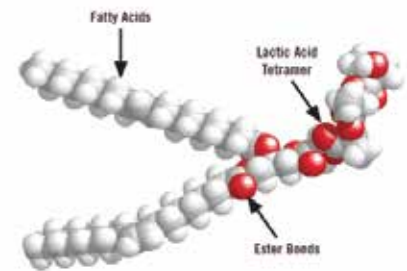
Suspension of 3DME generated by this mixing range from micelles on the order of .02 microns to .05 microns in diameter, to “swollen” micelles, (termed “microemulsions”) which are on the order of .05 to 5 microns in diameter. Once injected into the subsurface in high volumes, the colloidal suspension mixes and dilutes in existing pore waters. The micelles/microemulsions on the injection front will then begin to sorb onto the surfaces of soils as a result of zeta potential attraction and organic matter within the soils themselves. As the sorption continues, the 3DME will “coat” pore surfaces developing a layer of molecules and in some cases a bilayer. This sorption process continues as the micelles/microemulsion moves outward and disassociates into their hydrophilic/hydrophobic components. The specialized chemistry of 3DME results in a staged release of electron donors: free lactate (immediate); polylactate esters (mid-range) and free fatty acids & fatty acid esters (long-term). Material longevity of three years or greater has been seen at most sites as determined from biogeochemical analyses.

For a list of treatable contaminants with the use of 3DME, view the [Range of Treatable Contaminants Guide](#)



Example of 3-D Microemulsion

FIGURE 1: THE 3-D MICROEMULSION MOLECULAR STRUCTURE



Chemical Composition

- Hydrogen Release Compound Partitioning Electron Donor – CAS #823190-10-9
- Sodium Lactate – CAS# 72-17-3
- Water – CAS# – 7732-18-5

3-D Microemulsion[®] Factory Emulsified Technical Description

Properties

- Density – Approximately 1.0 grams per cubic centimeter (relative to water)
- pH – Neutral (approximately 6.5 to 7.5 standard units)
- Solubility – Soluble in Water
- Appearance – White emulsion
- Odor – Not detectable
- Vapor Pressure – None
- Non-hazardous

Storage and Handling Guidelines

Storage

Store in original tightly closed container

Store in a cool, dry, well-ventilated place

Store away from incompatible materials

Recommended storage containers: plastic lined steel, plastic, glass, aluminum, stainless steel, or reinforced fiberglass

Handling

Avoid contact with eyes, skin, and clothing

Provide adequate ventilation

Wear appropriate personal protective equipment

Observe good industrial hygiene practices

Applications

- 3DME is diluted with water prior to application. Resulting emulsion has viscosity similar to water.
- Easily injects into formation through direct push injection points, injection wells or other injection delivery systems.

Application instructions for this product are contained here [3DME FE Application Instructions](#).

Health and Safety

Material is food grade and relatively safe to handle. We recommend avoiding contact with eyes and prolonged contact with skin. OSHA Level D personal protection equipment including vinyl or rubber gloves, and eye protection are recommended when handling this product. Please review the Material Safety Data Sheet for additional storage, usage, and handling requirements here: [SDS-3DME FE](#).



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European Headquarters
The Tramshed, Beehive Yard
Walcot St, Bath BA1 5BB, United Kingdom

BDI PLUS® Technical Description

Bio-Dechlor INOCULUM Plus (BDI PLUS®) is an enriched natural consortium containing species of Dehalococcoides sp. (DHC). BDI PLUS has been shown to simulate the rapid and complete dechlorination of chlorinated solvents such as tetrachloroethene (PCE), trichloroethene (TCE), dichloroethene (DCE) and vinyl chloride (VC) to non-toxic end products, ethene, carbon dioxide and water.

The culture also contains microbes capable of dehalogenating halomethanes (e.g., carbon tetrachloride and chloroform) and haloethanes (e.g., 1,1,1-TCA and 1,1-DCA) as well as mixtures of these contaminants.



Species of Dehalococcoides sp. (DHC)

For a list of treatable contaminants with the use of BDI PLUS, view the [Range of Treatable Contaminants Guide](#)

Chemical Composition

- Non-hazardous, naturally-occurring, non-altered anaerobic microbes and enzymes in a water-based medium.

Properties

- Appearance – Murky, yellow to grey water
- Odor – Musty
- pH 6.0 to 8.0
- Density – Approximately 1.0 grams per cubic centimeter (0.9 to 1.1 g/cc)
- Solubility – Soluble in Water
- Vapor Pressure – None
- Non-hazardous

Storage and Handling Guidelines

Storage

Store in original tightly closed container

Store away from incompatible materials

Recommended storage containers: plastic lined steel, plastic, glass, aluminum, stainless steel, or reinforced fiberglass

Store in a cool, dry area at 4-5°C (39 - 41°F)

Material may be stored for up to 3 weeks at 2-4°C without aeration

Handling

Avoid prolonged exposure

Observe good industrial hygiene practices

Wear appropriate personal protective equipment

BDI PLUS[®] Technical Description

Applications

- BDI PLUS is delivered to the site in liquid form and is designed to be injected directly into the saturated zone requiring treatment.
- Most often diluted with de-oxygenated water prior to injection into either hydraulic push injection points or properly constructed injection wells.
- The typical dilution rate of the injected culture is 10 gallons of deoxygenated water to 1 liter of standard BDI PLUS culture.

Application instructions for this product are contained here [BDI PLUS Application Instructions](#).

Health and Safety

Material is non-hazardous and relatively safe to handle; however avoid contact with eyes and prolonged contact with skin. OSHA Level D personal protection equipment including: vinyl or rubber gloves and safety goggles or a splash shield are recommended when handling this product. An eyewash station is recommended. Please review the Material Safety Data Sheet for additional storage, usage, and handling requirements here: [BDI PLUS SDS](#).

CRS[®] Technical Description

CRS[®] (Chemical Reducing Solution) is an iron-based reagent that facilitates biogeochemical *in situ* chemical reduction (ISCR) of halogenated contaminants such as chlorinated ethenes and ethanes. CRS is a pH neutral, liquid iron solution that is easily mixed with 3-D Microemulsion[®] Factory Emulsified before injection into a contaminated aquifer. CRS provides a soluble, food-grade source of ferrous iron (Fe²⁺), designed to precipitate as reduced iron sulfides, oxides, and/or hydroxides. These Fe²⁺ minerals are capable of destroying chlorinated solvents via chemical reduction pathways, thus improving the efficiency of the overall reductive dechlorination process by providing multiple pathways for contaminant degradation in groundwater.



Example of CRS

For a list of treatable contaminants with the use of CRS, view the [Range of Treatable Contaminants Guide](#).

Chemical Composition

- Water 7732-18-5
- Ferrous Gluconate 299-29-6

Properties

- Appearance – Dark green to black
- Odor – Odorless
- pH 6.0 to 8.0
- Density – Approximately 1.0 grams per cubic centimeter (0.9 to 1.1 g/cc)
- Solubility – Miscible
- Vapor Pressure – None
- Non-hazardous

Storage and Handling Guidelines

Storage

- Store in original tightly closed container
- Store away from incompatible materials
- Recommended storage containers: plastic-lined steel, plastic, glass, aluminum, stainless steel, or reinforced fiberglass
- Store in a cool, dry, well-ventilated place
- Keep away from extreme heat and strong oxidizing agents

Handling

- Avoid prolonged exposure
- Observe good industrial hygiene practices
- Wear appropriate personal protective equipment
- Avoid contact with eyes, skin, and clothing
- Avoid breathing spray mist
- Use with adequate ventilation

CRS® Technical Description

Applications

- Permanent injection wells
- Direct-push injection points

Application instructions for this product are contained in the CRS Application Instructions.

Health and Safety

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200. Observe good industrial hygiene practices. Wash hands after handling. Store away from incompatible materials. Dispose of waste and residues in accordance with local authority requirements. Please review the [CRS PLUS Material Safety Data Sheet](#) for additional storage, usage, and handling requirements.



APPENDIX G

Injection Point Construction Forms

Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> W. <input type="checkbox"/> S.		Well Name IP-1a	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> W. <input type="checkbox"/> S.		Wis. Unique Well No. VY 865 DNR Well ID No.	
Facility ID NA		Lat. _____ Long. _____		Date Well Installed 07/16/2015	
Type of Well Well Code SI / EJ		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Alex Plummer	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Badger State Drilling	

- A. Protective pipe, top elevation 900.43 ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation 900.43 ft. MSL
- D. Surface seal, bottom _____ ft. MSL or 1.5 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

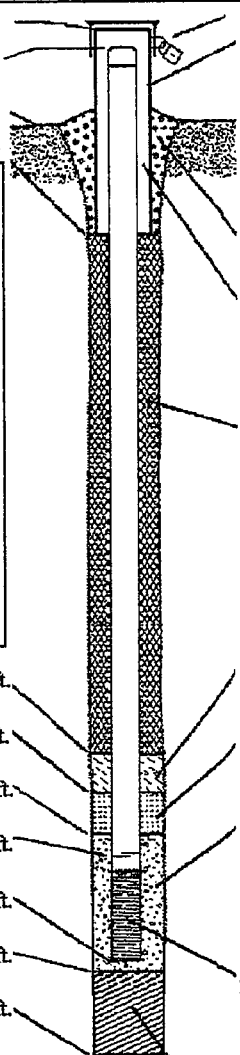
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):
Stoughton municipal water



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 8 in.
 - b. Length: 1 ft.
 - c. Material: Steel Steel 04 Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal:
 - Bentonite 30
 - Concrete 01
 - Other
- 4. Material between well casing and protective pipe:
 - Bentonite 30
 - Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight Bentonite slurry 31
 - d. _____ % Bentonite Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
- 9. Well casing:
 - Flush threaded PVC schedule 40 23
 - Flush threaded PVC schedule 80 24
 - Other
- 10. Screen material: PVC
 - a. Screen type:
 - Factory cut 11
 - Continuous slot 01
 - Other
 - b. Manufacturer Monoflex
 - c. Slot size: 0.02 in.
 - d. Slotted length: 15 ft.
- 11. Backfill material (below filter pack):
 - None 14
 - Other

- E. Bentonite seal, top _____ ft. MSL or 1.5 ft.
- F. Fine sand, top _____ ft. MSL or 52.5 ft.
- G. Filter pack, top _____ ft. MSL or 52.5 ft.
- H. Screen joint, top _____ ft. MSL or 54 ft.
- I. Well bottom _____ ft. MSL or 69 ft.
- J. Filter pack, bottom _____ ft. MSL or 69 ft.
- K. Borehole, bottom _____ ft. MSL or 103 ft.
- L. Borehole, diameter 6 in.
6" bit
- M. O.D. well casing 1.32 in.
- N. I.D. well casing 1.05 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Enviroforensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <u>2P-16</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ "Long. _____ or _____	Wis. Unique Well No. <u>VY-865</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,974.57</u> ft. N. <u>2,148,777.06</u> ft. E. <u>9/C/N</u>	Date Well Installed <u>3/16/2015</u> m m d d y y v v
Type of Well Well Code <u>S1 / 2j</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Alex Plummer</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft. Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

- A. Protective pipe, top elevation - 900.43 ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation - 900.43 ft. MSL
- D. Surface seal, bottom _____ ft. MSL or 1.5 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

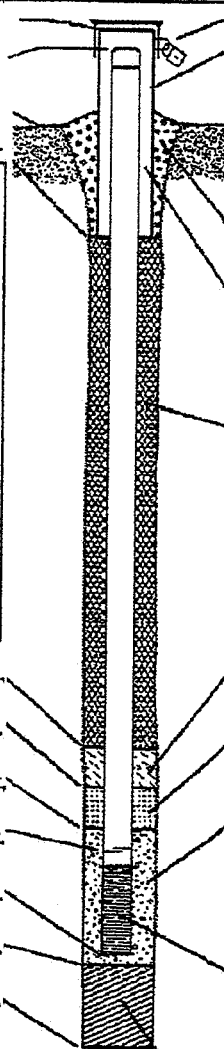
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
Stoughton municipal water



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 8 in.
 - b. Length: 1 ft.
 - c. Material: Steel Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30
Concrete 01
Other
- 4. Material between well casing and protective pipe: Bentonite 30
R.W. Sidley, Inc. Other
- 5. Annular space seal: a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 d. _____ % Bentonite ... Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal: a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: PVC
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other: _____
 b. Manufacturer Monoflex
 c. Slot size: 0.02 in.
 d. Slotted length: 25 ft.
- 11. Backfill material (below filter pack): None 14
 Other

- E. Bentonite seal, top _____ ft. MSL or 69 ft.
- F. Fine sand, top _____ ft. MSL or 73 ft.
- G. Filter pack, top _____ ft. MSL or 73 ft.
- H. Screen joint, top _____ ft. MSL or 77 ft.
- I. Well bottom _____ ft. MSL or 102 ft.
- J. Filter pack, bottom _____ ft. MSL or 103 ft.
- K. Borehole, bottom _____ ft. MSL or 103 ft.
- L. Borehole, diameter 6 in.
6" bit
- M. O.D. well casing 1.32 in.
- N. I.D. well casing 1.05 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Enviroforensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Kinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name IP-2a
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. VY-869 DNR Well ID No.
Facility ID NA	St. Plane 390,975.48 ft. N. 2,148,778.52 ft. E. (S/C/N)	Date Well Installed 02/17/2015 m m d d y y v v v
Type of Well Well Code S1/E1	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Alex Plummer Badger State Drilling
Distance from Waste/Source ft. <input type="checkbox"/> Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number

- A. Protective pipe, top elevation **900.22** ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation **900.22** ft. MSL
- D. Surface seal, bottom _____ ft. MSL or **2.5** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

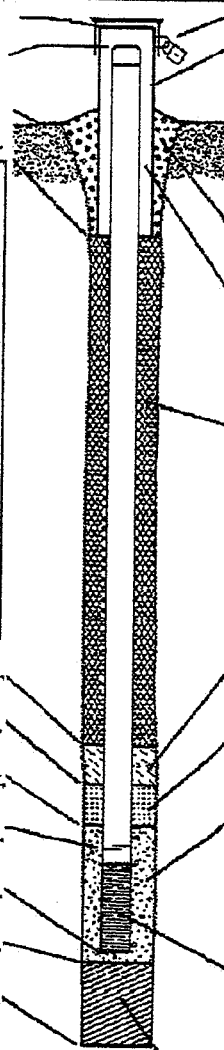
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

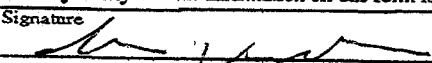
Describe _____

17. Source of water (attach analysis, if required):
Stoughton municipal water



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **8** in.
 - b. Length: **1** ft.
 - c. Material: **Steel** 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal:
 - Bentonite 30
 - Concrete 01
 - Other
- 4. Material between well casing and protective pipe:
 - Bentonite 30
 - Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 - d. _____ % Bentonite ... Bentonite-cement grout 50
 - e. _____ Ft.³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. **R.W. Sidley, Inc #5**
 - b. Volume added _____ ft.³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. **R.W. Sidley, Inc #5**
 - b. Volume added _____ ft.³
- 9. Well casing:
 - Flush threaded PVC schedule 40 23
 - Flush threaded PVC schedule 80 24
 - Other
- 10. Screen material: **PVC**
 - a. Screen type: Factory cut 11
Continuous slot 01
Other: _____
 - b. Manufacturer **Manaflex**
 - c. Slot size: **0.02** in.
 - d. Slotted length: **20** ft.
- 11. Backfill material (below filter pack):
 - None 14
 - Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **Enviroforensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name IP-3a
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ or _____	Wis. Unique Well No. VY 868 DNR Well ID No. _____
Facility ID NA	St. Plane 391, 098.80 ft. N, 2, 148, 764.85 ft. E. (S)/N	Date Well Installed 07/30/2015 m m d d y y v v v
Type of Well Well Code 61 / 2*	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Alex Plummer Badger State Drilling
Distance from Waste/Source _____ ft. Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

- A. Protective pipe, top elevation **901.89** ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation **901.89** ft. MSL
- D. Surface seal, bottom _____ ft. MSL or **2.5** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

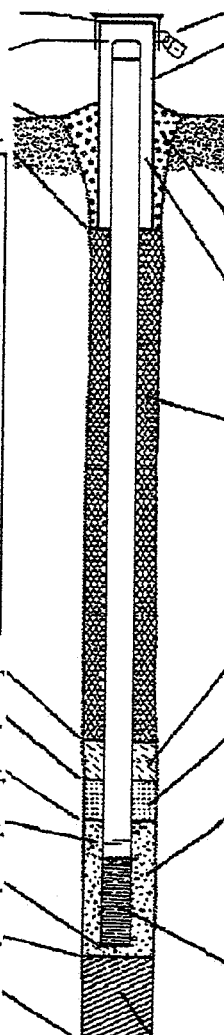
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):
Stoughton municipal water



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **8** in.
 - b. Length: **1** ft.
 - c. Material: **Steel** Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30
Concrete 01
Other
- 4. Material between well casing and protective pipe: Bentonite 30
Other **R.W. Sidley, Inc.**
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 - d. _____ % Bentonite ... Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
- b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
- b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: **PVC**
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer **Monoflex**
 - c. Slot size: **0.02** in.
 - d. Slotted length: **20** ft.
- 11. Backfill material (below filter pack): None 14
 Other **Construction of IP-3b**

- E. Bentonite seal, top _____ ft. MSL or **2.5** ft.
- F. Fine sand, top _____ ft. MSL or **51** ft.
- G. Filter pack, top _____ ft. MSL or **51** ft.
- H. Screen joint, top _____ ft. MSL or **52** ft.
- I. Well bottom _____ ft. MSL or **72** ft.
- J. Filter pack, bottom _____ ft. MSL or **72** ft.
- K. Borehole, bottom _____ ft. MSL or **103.5** ft.
- L. Borehole, diameter **6** in.
6" bit
- M. O.D. well casing **1.32** in.
- N. I.D. well casing **1.05** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name IP-3b
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or "	Wis. Unique Well No. VY 868 DNR Well ID No.
Facility ID NA	St. Plane 391,098.83 ft. N. 2,148,764.85 ft. E. SC/N	Date Well Installed 07/20/2015
Type of Well Well Code 61/2j	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Alex Plummer Badger State Drilling
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known
Gov. Lot Number _____		

- A. Protective pipe, top elevation **901.89** ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation **901.89** ft. MSL
- D. Surface seal, bottom _____ ft. MSL or **2.5** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

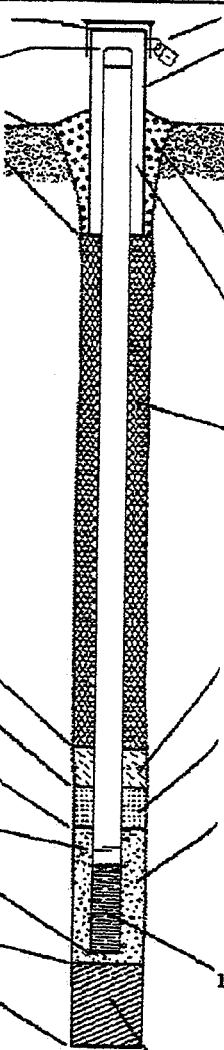
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):
Stoughton municipal water



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **8** in.
 - b. Length: **1** ft.
 - c. Material: **Steel** 04 Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30 Concrete 01 Other
- 4. Material between well casing and protective pipe: Bentonite 30 Other **R.W. Sidley, Inc.**
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 - d. _____ % Bentonite ... Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01 Tremie pumped 02 Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
- b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
- b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: **PVC**
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other: _____
- b. Manufacturer **Manaflex**
- c. Slot size: **0.02** in.
- d. Slotted length: **25** ft.
- 11. Backfill material (below filter pack): None 14
 Other

- E. Bentonite seal, top _____ ft. MSL or **72** ft.
- F. Fine sand, top _____ ft. MSL or **77** ft.
- G. Filter pack, top _____ ft. MSL or **77** ft.
- H. Screen joint, top _____ ft. MSL or **77** ft.
- I. Well bottom _____ ft. MSL or **102** ft.
- J. Filter pack, bottom _____ ft. MSL or **103.5** ft.
- K. Borehole, bottom _____ ft. MSL or **103.5** ft.
- L. Borehole, diameter **6** in.
6" bit
- M. O.D. well casing **1.32** in.
- N. I.D. well casing **1.05** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **Enviroforensics**

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input checked="" type="checkbox"/> W.	Well Name <u>IP-4a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <u>NA</u> DNR Well ID No. <u>NA</u>
Facility ID <u>NA</u>	Lat. _____ Long. _____ or _____	Date Well Installed <u>07/25/2016</u> m m d d y y v v y
Type of Well Well Code <u>61 11</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Dakota Bevins</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation 902.26 ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation 902.26 ft. MSL
 D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

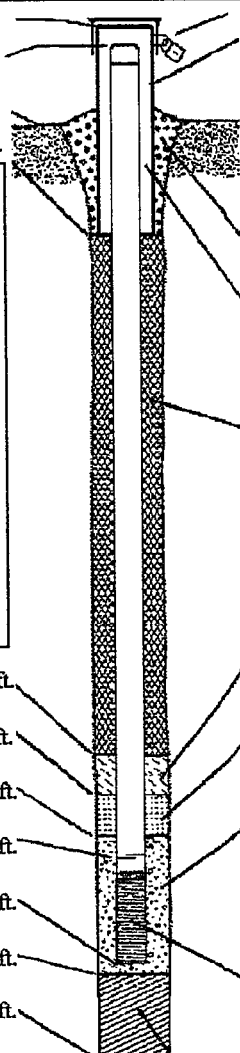
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
City of Madison



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: 12 in.
 b. Length: 12 ft.
 c. Material: Steel 04
 Other

d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal:
 Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe:
 Bentonite 30
 Other Sand

5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 d. 10 % Bentonite ... Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08

6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. NA
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other

10. Screen material: PVC
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other

b. Manufacturer Monoflex
 c. Slot size: 0.02 in.
 d. Slotted length: 20 ft.

11. Backfill material (below filter pack): None 14
Construction of IP-4b Other

E. Bentonite seal, top _____ ft. MSL or 47 ft.
 F. Fine sand, top _____ ft. MSL or 51 ft.
 G. Filter pack, top _____ ft. MSL or 51 ft.
 H. Screen joint, top _____ ft. MSL or 52 ft.
 I. Well bottom _____ ft. MSL or 72 ft.
 J. Filter pack, bottom _____ ft. MSL or 68 ft.
 K. Borehole, bottom _____ ft. MSL or 106 ft.
 L. Borehole, diameter 6 in.
 M. O.D. well casing 8.75 in.
 N. I.D. well casing 6.5 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature [Signature] Firm EnviroForensics

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Facility/Project Name Klinker Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name IP-46
Facility License, Permit or Monitoring No. 02-13-55(928)	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> or	Wis. Unique Well No. NA DNR Well ID No.
Facility ID NA	Lat. _____ Long. _____	Date Well Installed 07/25/2016
Type of Well Well Code 61 / 11	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Dakota Devins Badger State Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation **902.26** ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation **902.26** ft. MSL
- D. Surface seal, bottom _____ ft. MSL or **2** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

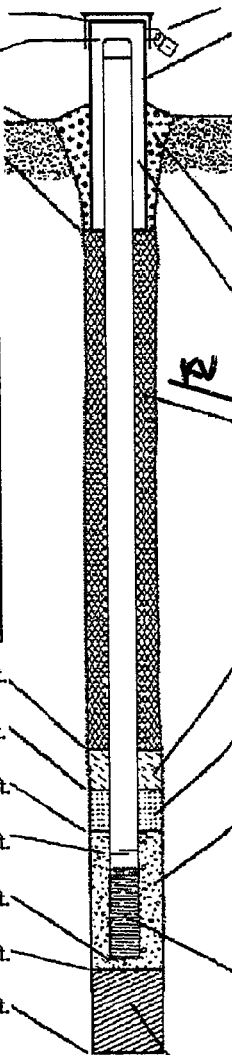
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
City of Madison



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **12** in.
 - b. Length: **12** ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal:
 - Bentonite 30
 - Concrete 01
 - Other
- 4. Material between well casing and protective pipe:
 - Bentonite 30
 - Other **Sand**
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight... Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight... Bentonite slurry 31
 - d. _____ % Bentonite... Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. **bentonite pellets** Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. **NA**
 - b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. **R.W. Sidley, Inc #5**
 - b. Volume added _____ ft³
- 9. Well casing:
 - Flush threaded PVC schedule 40 23
 - Flush threaded PVC schedule 80 24
 - Other
- 10. Screen material: **PVC**
 - a. Screen type:
 - Factory cut 11
 - Continuous slot 01
 - Other
 - b. Manufacturer **Monoflex**
 - c. Slot size: **0.02** in.
 - d. Slotted length: **25** ft.
- 11. Backfill material (below filter pack):
 - None 14
 - Other

- E. Bentonite seal, top _____ ft. MSL or **68** ft.
- F. Fine sand, top _____ ft. MSL or **76.5** ft.
- G. Filter pack, top _____ ft. MSL or **76.5** ft.
- H. Screen joint, top _____ ft. MSL or **80** ft.
- I. Well bottom _____ ft. MSL or **105** ft.
- J. Filter pack, bottom _____ ft. MSL or **106** ft.
- K. Borehole, bottom _____ ft. MSL or **106** ft.
- L. Borehole, diameter **6"** in.
- M. O.D. well casing **8.75** in.
- N. I.D. well casing **6.5** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

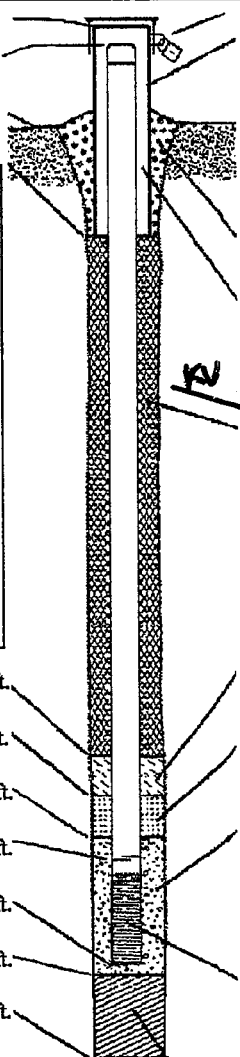
Signature [Signature] Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name: Klinke Clothing Care
 Local Grid Location of Well: _____ ft. N. _____ ft. E. _____ ft. S. _____ ft. W.
 Facility License, Permit or Monitoring No.: 02-13-551928 J
 Local Grid Origin (estimated) or Well Location
 Facility ID: NA
 St. Plane: 390,965.61 ft. N., 2,148,665.75 ft. E. S/C/N
 Section Location of Waste/Source: _____
 Location of Well Relative to Waste/Source: u Upgradient s Sidegradient d Downgradient n Not Known
 Gov. Lot Number: _____
 Well Name: IP-5a
 Wis. Unique Well No.: _____ DNR Well ID No.: _____
 Date Well Installed: 07/27/2016
 Well Installed By: Name (first, last) and Firm: Dakota Bevins Badger state Drilling

- A. Protective pipe, top elevation 899.94 ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation 899.94 ft. MSL
 D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock
 13. Sieve analysis performed? Yes No
 14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other
 15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99
 16. Drilling additives used? Yes No
 Describe: _____
 17. Source of water (attach analysis, if required):
City of Madison



1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: 12 in.
 b. Length: 12 ft.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: _____
 3. Surface seal:
 Bentonite 30
 Concrete 01
 Other
 4. Material between well casing and protective pipe:
 Bentonite 30
 Other
Sand
 5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 d. _____ % Bentonite ... Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08
 6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. bentonite pellets Other
 7. Fine sand material: Manufacturer, product name & mesh size
 a. NA
 b. Volume added _____ ft³
 8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
 10. Screen material: PVC
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer Monoflex
 c. Slot size: 0.02 in.
 d. Slotted length: 20 ft.
 11. Backfill material (below filter pack): None 14
 Other

- E. Bentonite seal, top _____ ft. MSL or 47.8 ft.
 F. Fine sand, top _____ ft. MSL or 51.3 ft.
 G. Filter pack, top _____ ft. MSL or 51.3 ft.
 H. Screen joint, top _____ ft. MSL or 52 ft.
 I. Well bottom _____ ft. MSL or 72 ft.
 J. Filter pack, bottom _____ ft. MSL or 73 ft.
 K. Borehole, bottom _____ ft. MSL or 105 ft.
 L. Borehole, diameter 6 in.
 M. O.D. well casing 8.75 in.
 N. I.D. well casing 6.5 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature: [Signature] Firm: EnviroForensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name: Klinke Clothing Care
 Local Grid Location of Well: _____ ft. N. _____ ft. E. _____ ft. S. _____ ft. W.
 Facility License, Permit or Monitoring No.: 02-13-551928 J
 Local Grid Origin (estimated:) or Well Location
 Facility ID: NA
 St. Plane: 390, 963.61 ft. N. 2, 148, 665.75 ft. E. 0/C/N
 Section Location of Waste/Source: _____
 Type of Well: _____
 Well Code: 6L / U
 Distance from Waste/Source: _____ ft. Enf. Stds. Apply
 Location of Well Relative to Waste/Source: Upgradient Sidegradient Downgradient Not Known
 Gov. Lot Number: _____
 Well Name: IP-5b
 Wis. Unique Well No.: _____ DNR Well ID No.: _____
 Date Well Installed: 07/27/2016
 Well Installed By: Name (first, last) and Firm: Dakota Bevins
Badger state Drilling

A. Protective pipe, top elevation: 899.74 ft. MSL
 B. Well casing, top elevation: _____ ft. MSL
 C. Land surface elevation: 899.74 ft. MSL
 D. Surface seal, bottom: _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe: _____

17. Source of water (attach analysis, if required):
City of Madison

1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: 12 in.
 b. Length: 12 ft.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe:
Sand Bentonite 30
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight . . . Bentonite slurry 31
 d. 10 % Bentonite Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08

6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. NA
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other

10. Screen material: PVC
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer: Monoflex
 c. Slot size: 0.02 in.
 d. Slotted length: 25 ft.

11. Backfill material (below filter pack): None 14
construction of IP-5b Other

E. Bentonite seal, top: _____ ft. MSL or 73 ft.
 F. Fine sand, top: _____ ft. MSL or 77 ft.
 G. Filter pack, top: _____ ft. MSL or 77 ft.
 H. Screen joint, top: _____ ft. MSL or 78 ft.
 I. Well bottom: _____ ft. MSL or 103 ft.
 J. Filter pack, bottom: _____ ft. MSL or 105 ft.
 K. Borehole, bottom: _____ ft. MSL or 105 ft.
 L. Borehole, diameter: 6 in.
 M. O.D. well casing: 8.75 in.
 N. I.D. well casing: 6.5 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature]

Firm: EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>IP-6 a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ " Long. _____ " or _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,955.08</u> ft. N. <u>2,148,721.91</u> ft. E. <input checked="" type="checkbox"/> S/C/N	Date Well Installed <u>07/18/2016</u> m m d d y y v v
Type of Well Well Code <u>61.11</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>902.71</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>12</u> in. b. Length: <u>12</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>902.71</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> <u>Sand</u>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite ... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>47</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>48</u> ft.	b. Manufacturer <u>Monoflex</u>
G. Filter pack, top _____ ft. MSL or <u>48</u> ft.	c. Slot size: <u>0.02</u> in.
H. Screen joint, top _____ ft. MSL or <u>51</u> ft.	d. Slotted length: <u>20</u> ft.
I. Well bottom _____ ft. MSL or <u>71</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Construction of IP-6 b</u> Other <input checked="" type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>72</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>103</u> ft.	
L. Borehole, diameter <u>6"</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IP-6 b
Facility License, Permit or Monitoring No. 02-13-551928 J	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ or _____	Wis. Unique Well No. NA DNR Well ID No. _____
Facility ID NA	St. Plane 320,955.08 ft. N. 2,148,721.91 ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed 07/18/2016 m m d d y y v v
Type of Well Well Code 6L/ij	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Mark Granton Badger State Drilling
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation - 902.71 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 12 in. b. Length: 12 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation - 902.71 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 2 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> Sand
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. bentonite pellets Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. NA b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): City of Madison	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 72 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 77 ft.	b. Manufacturer Monoflex
G. Filter pack, top _____ ft. MSL or 77 ft.	c. Slot size: 0.02 in.
H. Screen joint, top _____ ft. MSL or 78 ft.	d. Slotted length: 25 ft.
I. Well bottom _____ ft. MSL or 103 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or 103 ft.	
K. Borehole, bottom _____ ft. MSL or 103 ft.	
L. Borehole, diameter 6" in.	
M. O.D. well casing 8.75 in.	
N. I.D. well casing 6.5 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **EnviroForensics**

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>IP-7a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <u>NA</u> DNR Well ID No. <u>NA</u>
Facility ID <u>NA</u>	Lat. _____ Long. _____ or _____	Date Well Installed <u>07/21/2016</u> m m d d y y v v
Type of Well Well Code <u>6L/U</u>	St. Plane <u>390,863.88</u> ft. N. <u>2,148,635.67</u> ft. E. <u>S/C/N</u>	Well Installed By: Name (first, last) and Firm <u>Kevin Duerst</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	
Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>899.65</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>12</u> in.
C. Land surface elevation <u>899.65</u> ft. MSL	b. Length: <u>12</u> ft.
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: <u>Sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite Bentonite-cement group <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): <u>City of Madison</u>	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>45</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
F. Fine sand, top _____ ft. MSL or <u>48</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>48</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>51</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>20</u> ft.
I. Well bottom _____ ft. MSL or <u>71</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>construction of IP-7 b</u> Other <input checked="" type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>72</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>103</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 14, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>IP-7b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ Long. _____ or _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,863.88</u> ft. N. <u>2,148,685.69</u> ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed <u>07/21/2016</u> m m d d y y v v v y
Type of Well Well Code <u>61/ij</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Kevin Duerst</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source <input checked="" type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>899.65</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>12</u> in. b. Length: <u>12</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>899.65</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> <u>Sand</u>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>bentonite pellets</u> Other <input checked="" type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>72</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>77</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>77</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>25</u> ft.
H. Screen joint, top _____ ft. MSL or <u>78</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
I. Well bottom _____ ft. MSL or <u>103</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>103</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>103</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IP-8a
Facility License, Permit or Monitoring No. 02-13-551928 J	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID NA	Lat. _____ Long. _____ or _____	Date Well Installed 07/19/2016 m m d d y y y y
Type of Well Well Code 61/1j	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Mark Cranston Badger State Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation - 899.42 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 12 in. b. Length: 12 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation - 899.42 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 2 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> Sand
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. 10 % Bentonite... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. NA b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): City of Madison	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 42 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 46 ft.	b. Manufacturer Monoflex c. Slot size: 0.02 in. d. Slotted length: 20 ft.
G. Filter pack, top _____ ft. MSL or 46 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Construction of IP-8 b Other <input checked="" type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 50 ft.	
I. Well bottom _____ ft. MSL or 70 ft.	
J. Filter pack, bottom _____ ft. MSL or 72 ft.	
K. Borehole, bottom _____ ft. MSL or 103 ft.	
L. Borehole, diameter - 6 in.	
M. O.D. well casing 8.75 in.	
N. I.D. well casing 6.5 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **EnviroForensics**

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Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name IP-8b
Facility License, Permit or Monitoring No. 02-13-551928 J	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID NA	St. Plane 390,843.68 ft. N, 148,672.50 ft. E. <input checked="" type="checkbox"/> CN	Date Well Installed 07/19/2016 m m d d y y v v
Type of Well Well Code 6L/S	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Mark Cramton Badger State Drilling
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source <input checked="" type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation **899.42** ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation **899.42** ft. MSL
- D. Surface seal, bottom _____ ft. MSL or **2** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

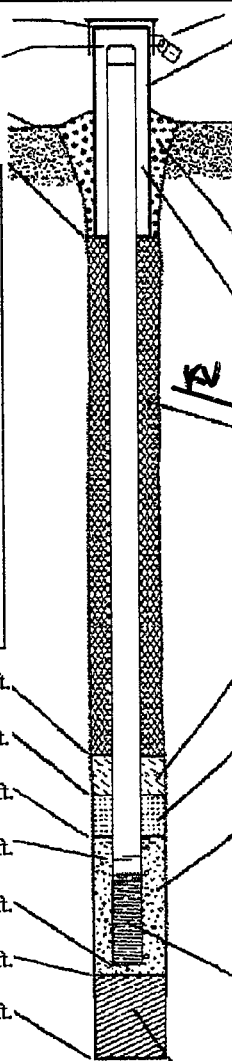
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
City of Madison



1. Cap and lock? Yes No
2. Protective cover pipe:
 a. Inside diameter: **12** in.
 b. Length: **12** ft.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: _____
3. Surface seal:
 Bentonite 30
 Concrete 01
 Other
4. Material between well casing and protective pipe:
 Bentonite 30
 Other **Sand**
5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 d. _____ % Bentonite ... Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08
6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. **bentonite pellets** Other
7. Fine sand material: Manufacturer, product name & mesh size
 a. **NA**
 b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
 b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
10. Screen material: **PVC**
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer **Monoflex**
 c. Slot size: **0.02** in.
 d. Slotted length: **25** ft.
11. Backfill material (below filter pack): None 14
 Other

- E. Bentonite seal, top _____ ft. MSL or **72** ft.
- F. Fine sand, top _____ ft. MSL or **77** ft.
- G. Filter pack, top _____ ft. MSL or **77** ft.
- H. Screen joint, top _____ ft. MSL or **78** ft.
- I. Well bottom _____ ft. MSL or **103** ft.
- J. Filter pack, bottom _____ ft. MSL or **103** ft.
- K. Borehole, bottom _____ ft. MSL or **103** ft.
- L. Borehole, diameter **6** in.
- M. O.D. well casing **8.75** in.
- N. I.D. well casing **6.5** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **EnviroForensics**

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <u>IP-9a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or _____ " or _____ "	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,993.96</u> ft. N. <u>2,48,887.63</u> ft. E. <u>(S)/CN</u>	Date Well Installed <u>07/12/2016</u> m m d d y y v v y
Type of Well Well Code <u>61/10</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>901.20</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>12</u> in. b. Length: <u>12</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>901.20</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: <u>Sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>46</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>50</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>50</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: _____ 0.02 in. d. Slotted length: <u>20</u> ft.
H. Screen joint, top _____ ft. MSL or <u>52</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>construction of IP-9 b</u> Other <input checked="" type="checkbox"/>
I. Well bottom _____ ft. MSL or <u>72</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>73</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>104</u> ft.	
L. Borehole, diameter <u>6</u> " in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>IP-96</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ " Long. _____ " or _____ " or _____ "	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,993.96</u> ft. N. <u>2,146,887.63</u> ft. E. <u>S/C/N</u>	Date Well Installed <u>07/12/2016</u> m m d d y y v v
Type of Well Well Code <u>61 / ij</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>901.20</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>12</u> in. b. Length: <u>12</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>901.20</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> <u>Sand</u>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>bentonite pellets</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>73</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>77</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>25</u> ft.
G. Filter pack, top _____ ft. MSL or <u>77</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>78</u> ft.	
I. Well bottom _____ ft. MSL or <u>103</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>104</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>104</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>IP-10a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ Long. _____ or _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>391,073.26</u> ft. N. <u>2</u> , <u>148,877.43</u> ft. E. <u>SCIN</u>	Date Well Installed <u>07/14/2016</u> m m d d y y v v y y
Type of Well Well Code <u>51 / 6j</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cranston</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>901.89</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>12</u> in. b. Length: <u>12</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>901.89</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: <u>Sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite ... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>44.7</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>48.7</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>20</u> ft.
G. Filter pack, top _____ ft. MSL or <u>48.7</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>construction of IP-10b</u> Other <input checked="" type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>52</u> ft.	
I. Well bottom _____ ft. MSL or <u>72</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>73</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>105</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>IP-106</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <u>NA</u> DNR Well ID No. <u>NA</u>
Facility ID <u>NA</u>	St. Plane <u>391,073-26</u> ft. N. <u>2,148,877-43</u> ft. E. <input checked="" type="checkbox"/> S/C/N	Date Well Installed <u>07/14/2016</u> m m d d y y v v v
Type of Well Well Code <u>6L/13</u>	Section Location of Waste/Source 1/4 of <u> </u> 1/4 of Sec. <u> </u> T. <u> </u> N, R. <u> </u> <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source <u> </u> ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known
		Gov. Lot Number <u> </u>

A. Protective pipe, top elevation <u>901.89</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u> </u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>12</u> in. b. Length: <u>12</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>901.89</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: <u> </u>
D. Surface seal, bottom <u>2</u> ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> <u>Sand</u>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. <u> </u> Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. <u> </u> Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. <u> </u> % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u> </u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>bentonite pellets</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added <u> </u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u> </u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added <u> </u> ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>73</u> ft. MSL or <u>73</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>77.1</u> ft. MSL or <u>77.1</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>25</u> ft.
G. Filter pack, top <u>77.1</u> ft. MSL or <u>77.1</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>78</u> ft. MSL or <u>78</u> ft.	
I. Well bottom <u>103</u> ft. MSL or <u>103</u> ft.	
J. Filter pack, bottom <u>105</u> ft. MSL or <u>105</u> ft.	
K. Borehole, bottom <u>105</u> ft. MSL or <u>105</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>EW-1a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>391,086.14</u> ft. N. <u>2,148,954.55</u> ft. E. <u>S/C/N</u>	Date Well Installed <u>07/08/2016</u> m m d d y y v v y
Type of Well Well Code <u>61/11</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known
		Gov. Lot Number _____

- A. Protective pipe, top elevation 902.23 ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation 902.23 ft. MSL
- D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

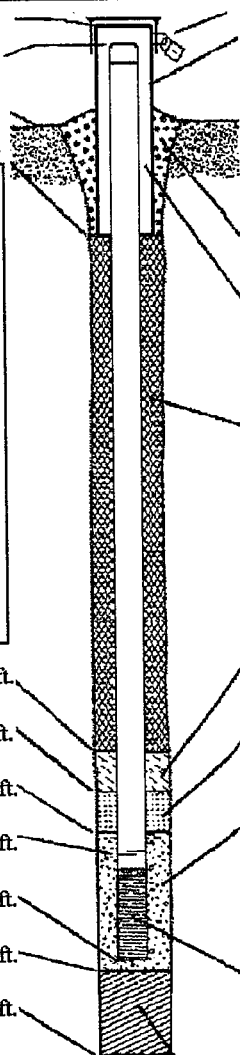
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
City of Madison



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: _____ in.
 - b. Length: _____ ft.
 - c. Material: Steel 04
Other no cover
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30
Concrete 01
Other asphalt
- 4. Material between well casing and protective pipe: Bentonite 30
Other sand
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight... Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight... Bentonite slurry 31
 - d. 10 % Bentonite... Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. NA
 - b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. R.W. Sidley, Inc #5
 - b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: PVC
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer Monoflex
 - c. Slot size: _____ 0.02 in.
 - d. Slotted length: 20 ft.
- 11. Backfill material (below filter pack): None 14
Construction of EW-1b Other

- E. Bentonite seal, top _____ ft. MSL or 45 ft.
- F. Fine sand, top _____ ft. MSL or 49 ft.
- G. Filter pack, top _____ ft. MSL or 49 ft.
- H. Screen joint, top _____ ft. MSL or 51 ft.
- I. Well bottom _____ ft. MSL or 71 ft.
- J. Filter pack, bottom _____ ft. MSL or 71 ft.
- K. Borehole, bottom _____ ft. MSL or 98 ft.
- L. Borehole, diameter 6 in.
- M. O.D. well casing 8.75 in.
- N. I.D. well casing 6.5 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <u>EW-1 b</u>	
Facility License, Permit or Monitoring No. <u>02-13-551928</u>		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ "Long. _____ or _____		Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____	
Facility ID <u>NA</u>		St. Plane <u>391,086.4</u> ft. N. <u>2,148,954.65</u> ft. E. <u>S/C/N</u>		Date Well Installed <u>07/08/2016</u> m m d d y y v v y y	
Type of Well Well Code <u>61/11</u>		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>					

A. Protective pipe, top elevation 902.23 ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation 902.23 ft. MSL
 D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

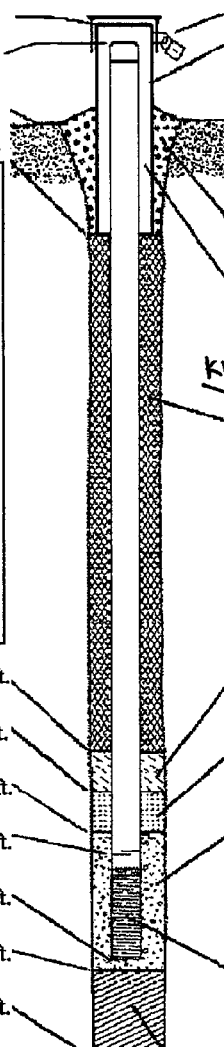
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
City of Madison



- Cap and lock? Yes No
- Protective cover pipe:
 - Inside diameter: _____ in.
 - Length: _____ ft.
 - Material: Steel 04
Other No cover
 - Additional protection? Yes No
If yes, describe: _____
- Surface seal: Bentonite 30
Concrete 01
Other asphalt
- Material between well casing and protective pipe: Bentonite 30
Other Sand
- Annular space seal:
 - Granular/Chipped Bentonite 33
 - Lbs/gal mud weight... Bentonite-sand slurry 35
 - Lbs/gal mud weight... Bentonite slurry 31
 - % Bentonite... Bentonite-cement grout 50
 - Ft³ volume added for any of the above _____
 - How installed: Tremie 01
Tremie pumped 02
Gravity 08
- Bentonite seal:
 - Bentonite granules 33
 - 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - bentonite pellets Other
- Fine sand material: Manufacturer, product name & mesh size
 - NA
 - Volume added _____ ft³
- Filter pack material: Manufacturer, product name & mesh size
 - R.W. Sidley, Inc #5
 - Volume added _____ ft³
- Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other
- Screen material: PVC
 - Screen type: Factory cut 11
Continuous slot 01
Other
 - Manufacturer Monoflex
 - Slot size: 0.02 in.
 - Slotted length: 20 ft.
- Backfill material (below filter pack): None 14
Other

E. Bentonite seal, top _____ ft. MSL or 71 ft.
 F. Fine sand, top _____ ft. MSL or 76 ft.
 G. Filter pack, top _____ ft. MSL or 76 ft.
 H. Screen joint, top _____ ft. MSL or 77 ft.
 I. Well bottom _____ ft. MSL or 97 ft.
 J. Filter pack, bottom _____ ft. MSL or 98 ft.
 K. Borehole, bottom _____ ft. MSL or 98 ft.
 L. Borehole, diameter 6" in.
 M. O.D. well casing 8.75 in.
 N. I.D. well casing 6.5 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>EW-2a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>391,047.02</u> ft. N. <u>2,148,954.85</u> ft. E. <u>S/C/N</u>	Date Well Installed <u>07/06/2016</u> m m d d y y v v y y
Type of Well Well Code <u>61 / ij</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source <input checked="" type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>902.12</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>no cover</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>902.12</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>sand</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite ... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>43.5</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>48.7</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>48.7</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>20</u> ft.
H. Screen joint, top _____ ft. MSL or <u>50</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Construction of EW-2b</u> Other <input checked="" type="checkbox"/>
I. Well bottom _____ ft. MSL or <u>70</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>71</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>100</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>EW-2 b</u>
Facility License, Permit or Monitoring No. <u>02-13-55(928)</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>391,047.02</u> ft. N <u>2,148,954.85</u> ft. E. <u>63N</u>	Date Well Installed <u>07/06/2016</u> m m d d y y v v
Type of Well Well Code <u>61/1</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation 902.12 ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation 902.12 ft. MSL
- D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

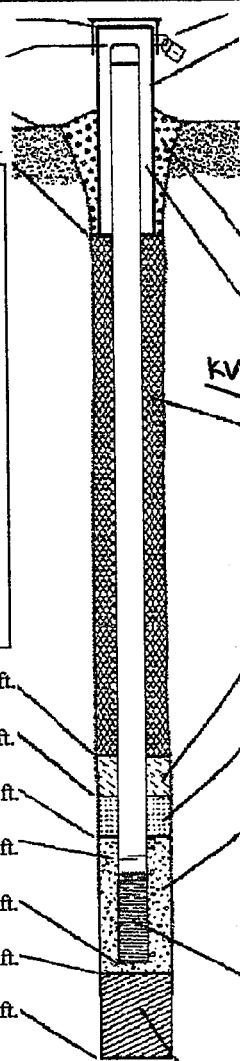
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
City of Madison



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: _____ in.
 - b. Length: _____ ft.
 - c. Material: Steel 04
Other No cover
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30
Concrete 01
Other asphalt
- 4. Material between well casing and protective pipe: Bentonite 30
Other Sand
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight... Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight... Bentonite slurry 31
 - d. _____ % Bentonite... Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. bentonite pellets Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. NA
 - b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. R.W. Sidley, Inc #5
 - b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other
- 10. Screen material: PVC
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer Monoflex
 - c. Slot size: 0.02 in.
 - d. Slotted length: 20 ft.
- 11. Backfill material (below filter pack): None 14
Other

- E. Bentonite seal, top _____ ft. MSL or 71 ft.
- F. Fine sand, top _____ ft. MSL or 76.2 ft.
- G. Filter pack, top _____ ft. MSL or 76.2 ft.
- H. Screen joint, top _____ ft. MSL or 77 ft.
- I. Well bottom _____ ft. MSL or 97 ft.
- J. Filter pack, bottom _____ ft. MSL or 100 ft.
- K. Borehole, bottom _____ ft. MSL or 100 ft.
- L. Borehole, diameter 6" in.
- M. O.D. well casing 8.75 in.
- N. I.D. well casing 6.5 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>EW-3 a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ " Long. _____ " or _____ " or _____ "	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>391,008.92</u> ft. N. <u>2,48,954.17</u> ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed <u>07/11/2016</u> m m d d y y y y
Type of Well Well Code <u>61 10</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation <u>901.96</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>no cover</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>901.96</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>sand</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite ... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>35.8</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>45.3</u> ft.	b. Manufacturer <u>Monoflex</u>
G. Filter pack, top _____ ft. MSL or <u>45.3</u> ft.	c. Slot size: <u>0.02</u> in.
H. Screen joint, top _____ ft. MSL or <u>47</u> ft.	d. Slotted length: <u>20</u> ft.
I. Well bottom _____ ft. MSL or <u>67</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Construction of EW-3 b</u> Other <input checked="" type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>67</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>EW-3b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ "Long. _____ or	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>391,008.92</u> ft. N. <u>2,148,954.17</u> ft. E. <u>SC/N</u>	Date Well Installed <u>07/11/2016</u> m m d d y y v v v v
Type of Well Well Code <u>61 / ij</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Bodger state Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known

A. Protective pipe, top elevation <u>901.96</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: _____ Steel <input type="checkbox"/> 04 <u>NO COVER</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>901.96</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>kv Sand</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>bentonite pellets</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>67</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>75.4</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: _____ 0.02 in. d. Slotted length: <u>20</u> ft.
G. Filter pack, top _____ ft. MSL or <u>75.4</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>77</u> ft.	
I. Well bottom _____ ft. MSL or <u>97</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>98</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>BW-3a</u>
Facility License, Permit or Monitoring No. <u>02-13-55(928)</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or _____ " or _____ "	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,837.09</u> ft. N. <u>2,148,620.02</u> ft. E. <u>S/C/N</u>	Date Well Installed <u>07/05/2016</u> m m d d y y v v
Type of Well Well Code <u>61 / U</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation 898.05 ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation 898.05 ft. MSL
D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

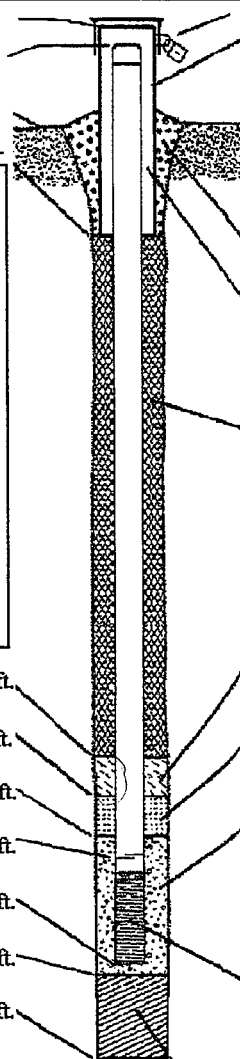
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required):
City of Madison



- Cap and lock? Yes No
- Protective cover pipe:
 - Inside diameter: _____ in.
 - Length: _____ ft.
 - Material: Steel 04
Other NO COVER
 - Additional protection? Yes No
If yes, describe: _____
- Surface seal: Bentonite 30
Concrete 01
Other asphalt
- Material between well casing and protective pipe: Bentonite 30
Other sand
- Annular space seal:
 - Granular/Chipped Bentonite 33
 - Lbs/gal mud weight... Bentonite-sand slurry 35
 - Lbs/gal mud weight... Bentonite slurry 31
 - 10 % Bentonite... Bentonite-cement grout 50
 - _____ Ft³ volume added for any of the above
 - How installed: Tremie 01
Tremie pumped 02
Gravity 08
- Bentonite seal:
 - Bentonite granules 33
 - 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - Other
- Fine sand material: Manufacturer, product name & mesh size
 - NA
 - Volume added _____ ft³
- Filter pack material: Manufacturer, product name & mesh size
 - R.W. Sidley, Inc #5
 - Volume added _____ ft³
- Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other
- Screen material: PVC
 - Screen type: Factory cut 11
Continuous slot 01
Other
 - Manufacturer Monoflex
 - Slot size: _____ 0.02 in.
 - Slotted length: 20 ft.
- Backfill material (below filter pack): None 14
Construction of BW-3b Other

E. Bentonite seal, top _____ ft. MSL or 42.3 ft.
F. Fine sand, top _____ ft. MSL or 45.7 ft.
G. Filter pack, top _____ ft. MSL or 45.7 ft.
H. Screen joint, top _____ ft. MSL or 47 ft.
I. Well bottom _____ ft. MSL or 67 ft.
J. Filter pack, bottom _____ ft. MSL or 68 ft.
K. Borehole, bottom _____ ft. MSL or 97 ft.
L. Borehole, diameter 6 in.
M. O.D. well casing 8.75 in.
N. I.D. well casing 6.5 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>BW-3b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ or _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,837.09</u> ft. N. <u>2,48,620.02</u> ft. E. <u>S/C/N</u>	Date Well Installed <u>07/05/2016</u> m m d d y y v v y
Type of Well Well Code <u>61/11j</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	<u>898.05</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation	_____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/> <u>No cover</u>
C. Land surface elevation	<u>898.05</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom	_____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/> <u>asphalt</u>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> <u>Sand</u>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/> _____		5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99 16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____ 17. Source of water (attach analysis, if required): <u>City of Madison</u>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/>
E. Bentonite seal, top	_____ ft. MSL or <u>68</u> ft.	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
F. Fine sand, top	_____ ft. MSL or <u>73</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
G. Filter pack, top	_____ ft. MSL or <u>73</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
H. Screen joint, top	_____ ft. MSL or <u>74</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
I. Well bottom	_____ ft. MSL or <u>94</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: 0.02 in. d. Slotted length: <u>22</u> ft.
J. Filter pack, bottom	_____ ft. MSL or <u>97</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
K. Borehole, bottom	_____ ft. MSL or <u>97</u> ft.	
L. Borehole, diameter	<u>6</u> " in.	
M. O.D. well casing	<u>8.75</u> in.	
N. I.D. well casing	<u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

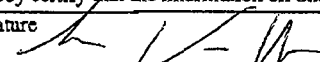
Signature [Signature] Firm EnviroForensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name BW-4a
Facility License, Permit or Monitoring No. 02-13-551928 J	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> or Lat. " Long. " or	Wis. Unique Well No. NA DNR Well ID No.
Facility ID NA	St. Plane 390, 867.16 ft. N. 2, 148, 620.45 ft. E. S/C/N	Date Well Installed 07/01/2016 m m d d y y v v y y
Type of Well Well Code 61-111	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Mark Cramton Badger state Drilling
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		

A. Protective pipe, top elevation 898.35 ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 NO COVER Other <input checked="" type="checkbox"/>
C. Land surface elevation 898.35 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 2 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 asphalt Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 sand Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. 10 % Bentonite... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. NA b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): City of Madison	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or 41 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 44.7 ft.	10. Screen material: PVC
G. Filter pack, top _____ ft. MSL or 44.7 ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 46 ft.	b. Manufacturer Monoflex
I. Well bottom _____ ft. MSL or 66 ft.	c. Slot size: 0.02 in.
J. Filter pack, bottom _____ ft. MSL or 67.8 ft.	d. Slotted length: 20 ft.
K. Borehole, bottom _____ ft. MSL or 98 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Construction of BW-4b Other <input checked="" type="checkbox"/>
L. Borehole, diameter 6" in.	
M. O.D. well casing 8.75 in.	
N. I.D. well casing 6.5 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Klinker Clothing Care</u>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <u>BW-4b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or _____ " or _____ "	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,867.16</u> ft. N, <u>2,148,620.45</u> ft. E. <input checked="" type="checkbox"/> S/C/N	Date Well Installed <u>07/01/2016</u> m m d d y y v v y y
Type of Well Well Code <u>61/111</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E/W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known

A. Protective pipe, top elevation <u>898.35</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>No cover</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>898.35</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: <u>Sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: <u>KV</u> Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>67.8</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>73.1</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: _____ 0.02 in. d. Slotted length: <u>22</u> ft.
G. Filter pack, top _____ ft. MSL or <u>73.1</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>74</u> ft.	
I. Well bottom _____ ft. MSL or <u>94</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>98</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>BW-5a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ "Long. _____ or _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,894.81</u> ft. N. <u>2,48,618.96</u> ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed <u>06/30/2016</u> m m d d y y v v v y
Type of Well Well Code <u>61/1j</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known
		Gov. Lot Number _____

A. Protective pipe, top elevation 898.89 ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation 898.89 ft. MSL
D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

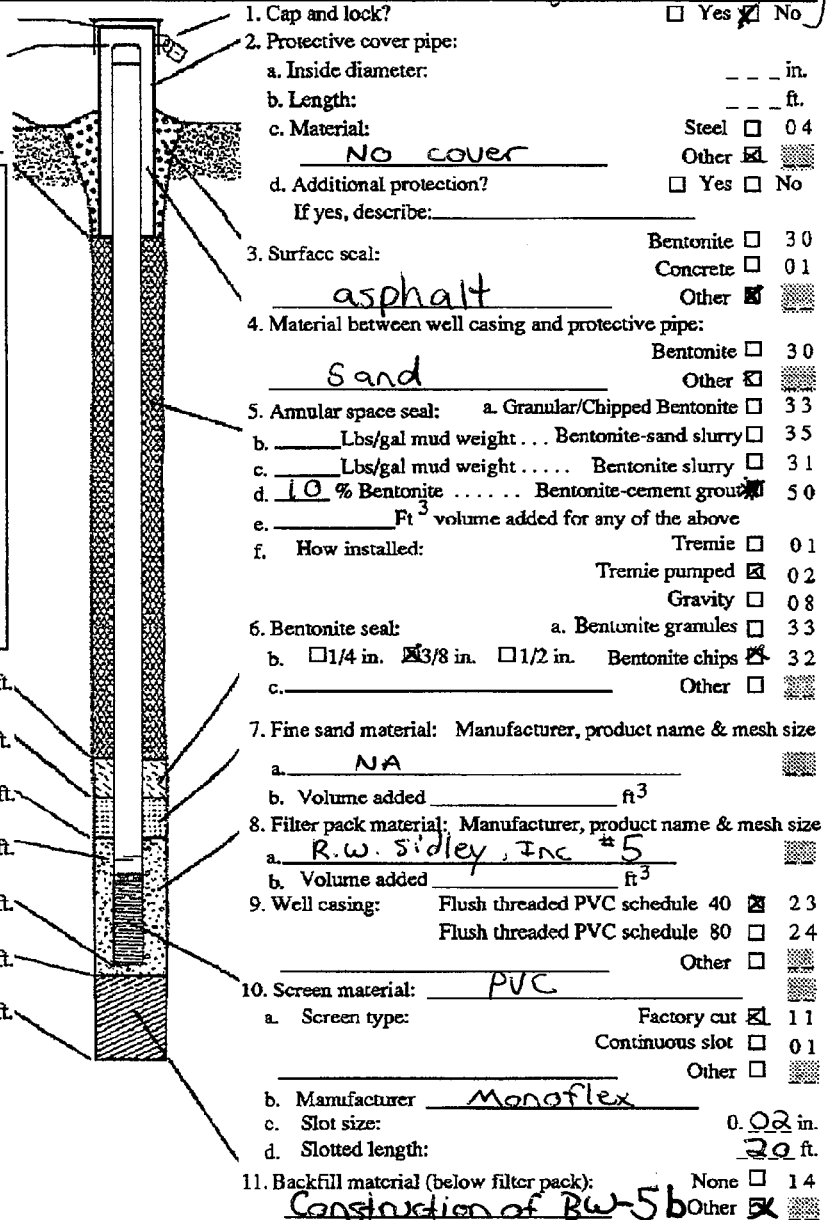
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required):
City of Madison



E. Bentonite seal, top _____ ft. MSL or 43 ft.
F. Fine sand, top _____ ft. MSL or 46.5 ft.
G. Filter pack, top _____ ft. MSL or 46.5 ft.
H. Screen joint, top _____ ft. MSL or 48 ft.
I. Well bottom _____ ft. MSL or 68 ft.
J. Filter pack, bottom _____ ft. MSL or 69 ft.
K. Borehole, bottom _____ ft. MSL or 97 ft.
L. Borehole, diameter 6 in.
M. O.D. well casing 8.75 in.
N. I.D. well casing 6.5 in.

- Cap and lock? Yes No
- Protective cover pipe:
 - Inside diameter: _____ in.
 - Length: _____ ft.
 - Material: Steel 04
No cover Other
 - Additional protection? Yes No
If yes, describe: _____
- Surface seal: Bentonite 30
Concrete 01
asphalt Other
- Material between well casing and protective pipe: Bentonite 30
sand Other
- Annular space seal:
 - Granular/Chipped Bentonite 33
 - Lbs/gal mud weight . . . Bentonite-sand slurry 35
 - Lbs/gal mud weight Bentonite slurry 31
 - 10 % Bentonite Bentonite-cement grout 50
 - _____ Ft³ volume added for any of the above
 - How installed: Tremie 01
Tremie pumped 02
Gravity 08
- Bentonite seal:
 - Bentonite granules 33
 - 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - _____ Other
- Fine sand material: Manufacturer, product name & mesh size
 - NA
 - Volume added _____ ft³
- Filter pack material: Manufacturer, product name & mesh size
 - R.W. Sidley, Inc #5
 - Volume added _____ ft³
- Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other
- Screen material: PVC
 - Screen type: Factory cut 11
Continuous slot 01
Other
 - Manufacturer Monoflex
 - Slot size: _____ 0.02 in.
 - Slotted length: 20 ft.
- Backfill material (below filter pack): None 14
Construction of BW-5b Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>BW-5b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____ or _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,894.81</u> ft. N, <u>2,148,618.96</u> ft. E. <u>SCN</u>	Date Well Installed <u>06/30/2016</u> m d d y v v v y
Type of Well Well Code <u>61.5j</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>898.89</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>898.89</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>69</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>73.8</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>20</u> ft.
G. Filter pack, top _____ ft. MSL or <u>73.8</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>75</u> ft.	
I. Well bottom _____ ft. MSL or <u>95</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>97</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>97</u> ft.	
L. Borehole, diameter <u>6"</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>BW-6a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. <u>NA</u> DNR Well ID No.
Facility ID <u>NA</u>	St. Plane <u>370, 914.82</u> ft. N. <u>2, 148, 618.52</u> ft. E. <input checked="" type="checkbox"/> N <input type="checkbox"/> W	Date Well Installed <u>06/28/2016</u> m m d d y y v v y y
Type of Well Well Code <u>61 / JJ</u>	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input checked="" type="checkbox"/> Sidegradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Not Known

- A. Protective pipe, top elevation 899.22 ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation 899.22 ft. MSL
- D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

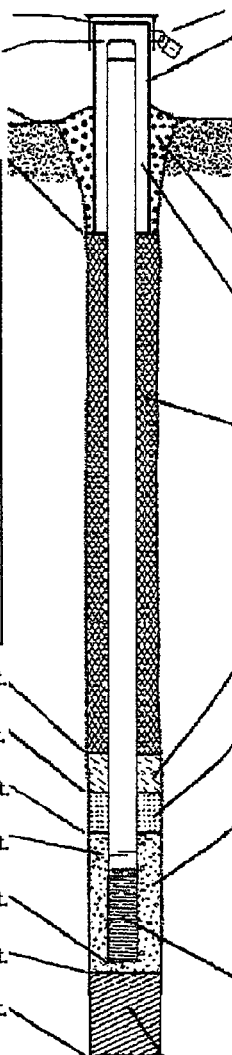
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
City of Madison



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: _____ in.
 - b. Length: _____ ft.
 - c. Material: Steel 04
Other No cover
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30
Concrete 01
Other asphalt
- 4. Material between well casing and protective pipe: Bentonite 30
Other sand
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight Bentonite slurry 31
 - d. 10 % Bentonite Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. NA
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: PVC
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer Monoflex
 - c. Slot size: _____ 0.02 in.
 - d. Slotted length: _____ 20 ft.
- 11. Backfill material (below filter pack): None 14
Construction of BW-6b Other

- E. Bentonite seal, top _____ ft. MSL or 45 ft.
- F. Fine sand, top _____ ft. MSL or 48 ft.
- G. Filter pack, top _____ ft. MSL or 48 ft.
- H. Screen joint, top _____ ft. MSL or 49 ft.
- I. Well bottom _____ ft. MSL or 69 ft.
- J. Filter pack, bottom _____ ft. MSL or 69 ft.
- K. Borehole, bottom _____ ft. MSL or 78 ft.
- L. Borehole, diameter 6 in.
- M. O.D. well casing 8.75 in.
- N. I.D. well casing 6.5 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Klinke Clothing Care</u>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <u>BW-6b</u>	
Facility License, Permit or Monitoring No. <u>02-13-551928</u>		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____	
Facility ID <u>NA</u>		St. Plane <u>390,914.82</u> ft. N. <u>2,148,618.52</u> ft. E. <u>S/C/N</u>		Date Well Installed <u>06/28/2016</u> m m d d y y y y	
Type of Well Well Code <u>6L11</u>		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input checked="" type="checkbox"/> Sidegradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Not Known		Gov. Lot Number _____	

<p>A. Protective pipe, top elevation <u>899.22</u> ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation <u>899.22</u> ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.</p>		<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>NO COVER</u> Other <input checked="" type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: <u>asphalt</u> Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>Sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft³ volume added for any of the above f. How installed: <u>KV</u> Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>20</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>BW-7a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,940.05</u> ft. N. <u>2,148,619.23</u> ft. E. <input checked="" type="checkbox"/> S/N	Date Well Installed <u>06/27/2016</u> m m d d y y v v
Type of Well Well Code <u>61-ii</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>899.60</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation <u>399.60</u> ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	c. Material: Steel <input type="checkbox"/> 04 <u>NO COVER</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: <u>sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
17. Source of water (attach analysis, if required): <u>City of Madison</u>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>45</u> ft.	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u>
F. Fine sand, top _____ ft. MSL or <u>48</u> ft.	b. Volume added _____ ft ³
G. Filter pack, top _____ ft. MSL or <u>48</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u>
H. Screen joint, top _____ ft. MSL or <u>50</u> ft.	b. Volume added _____ ft ³
I. Well bottom _____ ft. MSL or <u>70</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>70</u> ft.	10. Screen material: <u>PVC</u>
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter <u>6</u> in.	b. Manufacturer <u>Monoflex</u>
M. O.D. well casing <u>8.75</u> in.	c. Slot size: _____ 0.02 in.
N. I.D. well casing <u>6.5</u> in.	d. Slotted length: <u>20</u> ft.
	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Construction of BW-7b</u> Other <input checked="" type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name <u>BW-7b</u>	
Facility License, Permit or Monitoring No. <u>02-13-551928</u>		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. <u>NA</u> DNR Well ID No. <u>NA</u>	
Facility ID <u>NA</u>		St. Plane <u>390,940.05</u> ft. N. <u>2,148,619.23</u> ft. E. <u>30</u> ft. C/N		Date Well Installed <u>06/27/2016</u> m m d d y y v v v y	
Type of Well Well Code <u>6L/11</u>		Section Location of Waste/Source 1/4 of <u>1</u> 1/4 of Sec. <u>1</u> T. <u>1</u> N, R. <u>1</u> <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>	
Distance from Waste/Source <u> </u> ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number <u> </u>	

<p>A. Protective pipe, top elevation <u>899.60</u> ft. MSL</p> <p>B. Well casing, top elevation <u> </u> ft. MSL</p> <p>C. Land surface elevation <u>899.60</u> ft. MSL</p> <p>D. Surface seal, bottom <u>2</u> ft. MSL or <u>2</u> ft.</p>	<p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u> </u></p> <p>17. Source of water (attach analysis, if required): <u>City of Madison</u></p>		<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u> </u> in. b. Length: <u> </u> ft. c. Material: Steel <input type="checkbox"/> 04 <u>No cover</u> Other <input checked="" type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u> </u></p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> <u>sand</u></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. <u> </u> Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. <u> </u> Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. <u> </u> % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u> </u> Ft³ volume added for any of the above f. How installed: <u>KV</u> Tremie <input type="checkbox"/> 01 <u> </u> Tremie pumped <input type="checkbox"/> 02 <u> </u> Gravity <input type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added <u> </u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added <u> </u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>20</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>BW-8a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or " "	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,966.69</u> ft. N. <u>2,148,617.89</u> ft. E. <input checked="" type="checkbox"/> N <input type="checkbox"/> W	Date Well Installed <u>06/24/2016</u> m m d d y y v v y y
Type of Well Well Code <u>61/11</u>	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		

A. Protective pipe, top elevation <u>900.11</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>NO COVER</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>900.11</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>sand</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. <u>10 %</u> Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>44</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>48</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: _____ 0.02 in. d. Slotted length: <u>20</u> ft.
G. Filter pack, top _____ ft. MSL or <u>48</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Construction of BW-8b</u> Other <input checked="" type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>49</u> ft.	
I. Well bottom _____ ft. MSL or <u>69</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>70</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6"</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <u>BW-8b</u>	
Facility License, Permit or Monitoring No. <u>02-13-551928</u>		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> W.		Wis. Unique Well No. <u>NA</u> DNR Well ID No.	
Facility ID <u>NA</u>		St. Plane <u>390,966.69</u> ft. N, <u>2,148,617.89</u> ft. E. <u>9/C/N</u>		Date Well Installed <u>06/24/2016</u> m m d d y y y y	
Type of Well Well Code <u>61/ij</u>		Section Location of Waste/Source 1/4 of 1/4 of Sec. . T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>	
Distance from Waste/Source _____ ft.		Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>900.11</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation <u>900.11</u> ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	c. Material: Steel <input type="checkbox"/> 04 <u>No cover</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>Sand</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. Ft ³ volume added for any of the above _____ f. How installed: <u>KV</u> Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/>
17. Source of water (attach analysis, if required): <u>City of Madison</u>	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>70</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
F. Fine sand, top _____ ft. MSL or <u>75</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>75</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>76</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>20</u> ft.
I. Well bottom _____ ft. MSL or <u>96</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>98</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <u>BW-9a</u>	
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. <u>NA</u> DNR Well ID No. <u>NA</u>	
Facility ID <u>NA</u>		St. Plane <u>390,988.95</u> ft. N. <u>2,148,618.71</u> ft. E. <u>SCN</u>		Date Well Installed <u>06/23/2016</u> m m d d y y y y	
Type of Well Well Code <u>6L/1J</u>		Section Location of Waste/Source 1/4 of <u>1/4</u> of Sec. <u>T</u> , N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>	
Distance from Waste/Source <u> </u> ft.		Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation 900.47 ft. MSL
- B. Well casing, top elevation ft. MSL
- C. Land surface elevation 900.47 ft. MSL
- D. Surface seal, bottom 2 ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

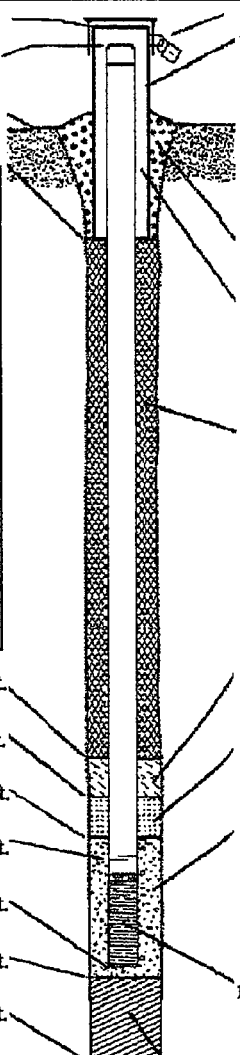
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe

17. Source of water (attach analysis, if required):
City of Madison



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: in.
 - b. Length: ft.
 - c. Material: Steel 04
Other NO COVER
 - d. Additional protection? Yes No
If yes, describe:
- 3. Surface seal: Bentonite 30
Concrete 01
Other asphalt
- 4. Material between well casing and protective pipe: Bentonite 30
Other sand
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. Lbs/gal mud weight... Bentonite-sand slurry 35
 - c. Lbs/gal mud weight... Bentonite slurry 31
 - d. 10 % Bentonite... Bentonite-cement grout 50
 - e. Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. NA
 - b. Volume added ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. R.W. Sidley, Inc #5
 - b. Volume added ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: PVC
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer Monoflex
 - c. Slot size: 0.02 in.
 - d. Slotted length: 20 ft.
- 11. Backfill material (below filter pack): None 14
Construction of BW-9b Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <u>BW-9b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ "Long. _____ or _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>390,988.95</u> ft. N. <u>2,148,618.71</u> ft. E. <input checked="" type="checkbox"/> S. <input type="checkbox"/> N.	Date Well Installed <u>06/23/2016</u> m m d d y y v v
Type of Well Well Code <u>61, ij</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number _____	

A. Protective pipe, top elevation <u>900.47</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>no cover</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>900.47</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>sand</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>70.1</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>75.7</u> ft.	10. Screen material: <u>PVC</u>
G. Filter pack, top _____ ft. MSL or <u>75.7</u> ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>76</u> ft.	b. Manufacturer <u>Monoflex</u>
I. Well bottom _____ ft. MSL or <u>96</u> ft.	c. Slot size: <u>0.02</u> in.
J. Filter pack, bottom _____ ft. MSL or <u>97</u> ft.	d. Slotted length: <u>20</u> ft.
K. Borehole, bottom _____ ft. MSL or <u>97</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
L. Borehole, diameter <u>6"</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name <u>BW-10a</u>	
Facility License, Permit or Monitoring No. <u>02-13-55(928)</u>		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. <u>NA</u> DNR Well ID No. <u>NA</u>	
Facility ID <u>NA</u>		St. Plane <u>391,009.96</u> ft. N. <u>2,148,620.43</u> ft. E. <u>S/C/N</u>		Date Well Installed <u>06/22/2016</u>	
Type of Well Well Code <u>61, ij</u>		Section Location of Waste/Source 1/4 of <u> </u> 1/4 of Sec. <u> </u> T. <u> </u> N, R. <u> </u> <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>	
Distance from Waste/Source <u> </u> ft. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input checked="" type="checkbox"/> Sidegradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Not Known		Gov. Lot Number <u> </u>	

A. Protective pipe, top elevation <u>900.85</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation <u> </u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u> </u> in. b. Length: <u> </u> ft. c. Material: <u>NO COVER</u> Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>900.85</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u> </u>
D. Surface seal, bottom <u>2</u> ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u> </u>	
17. Source of water (attach analysis, if required): <u>City of Madison</u>	
E. Bentonite seal, top <u>42.5</u> ft. MSL or <u>42.5</u> ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
F. Fine sand, top <u>47.5</u> ft. MSL or <u>47.5</u> ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. <u> </u> Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. <u> </u> Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. <u> </u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
G. Filter pack, top <u>47.5</u> ft. MSL or <u>47.5</u> ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. <u> </u> Other <input type="checkbox"/>
H. Screen joint, top <u>49</u> ft. MSL or <u>49</u> ft.	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added <u> </u> ft ³
I. Well bottom <u>69</u> ft. MSL or <u>69</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added <u> </u> ft ³
J. Filter pack, bottom <u>70.3</u> ft. MSL or <u>70.3</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
K. Borehole, bottom <u>103</u> ft. MSL or <u>103</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter <u>6</u> in.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>20</u> ft.
M. O.D. well casing <u>8.75</u> in.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Construction of BW-10a</u> Other <input checked="" type="checkbox"/>
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>BW-10b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <u>NA</u> DNR Well ID No. <u>NA</u>
Facility ID <u>NA</u>	Lat. _____ Long. _____ or St. Plane <u>391,009.96</u> ft. N. <u>2,48,620.43</u> ft. E. <u>SC/N</u>	Date Well Installed <u>06/22/2016</u> m m d d y y v v y
Type of Well Well Code <u>61, 11</u>	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number _____
Location of Well Relative to Waste/Source <input type="checkbox"/> Upgradient <input checked="" type="checkbox"/> Sidegradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Not Known		

A. Protective pipe, top elevation <u>900.85</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>No cover</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>900.85</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>Sand</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. Ft ³ volume added for any of the above _____ f. How installed: Tremie <input type="checkbox"/> 01 <u>KV</u> Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>70.3</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>75</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>20</u> ft.
G. Filter pack, top _____ ft. MSL or <u>75</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>76</u> ft.	
I. Well bottom _____ ft. MSL or <u>96</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>103</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>103</u> ft.	
L. Borehole, diameter <u>6</u> ¹¹ in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>BW-11a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928 J</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ Long. _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>391,031.56</u> ft. N. <u>2,148,624.99</u> ft. E. <u>031</u>	Date Well Installed <u>06/20/2016</u> m m d d y y y y
Type of Well Well Code <u>61 / ij</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>902.04</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>No cover</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>902.04</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>sand</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>43.5</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>47.3</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>47.3</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: _____ 0.02 in. d. Slotted length: <u>20</u> ft.
H. Screen joint, top _____ ft. MSL or <u>50</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Construction of BW-11b</u> Other <input checked="" type="checkbox"/>
I. Well bottom _____ ft. MSL or <u>70</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>71</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

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Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>BW-11b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <u>NA</u> DNR Well ID No. <u>NA</u>
Facility ID <u>NA</u>	St. Plane <u>391, 131.56</u> ft. N. <u>2, 148, 624.99</u> ft. E. <u>SC/N</u>	Date Well Installed <u>06/20/2016</u> m m d d y y v v
Type of Well Well Code <u>61/U</u>	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source <u>NA</u> ft. Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number

A. Protective pipe, top elevation <u>902.04</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: <u>No cover</u> Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>902.04</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/> <u>asphalt</u>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> <u>sand</u>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. Ft ³ volume added for any of the above _____ f. How installed: <u>KU</u> Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>71</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>76</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.02</u> in. d. Slotted length: <u>22</u> ft.
G. Filter pack, top _____ ft. MSL or <u>76</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>77</u> ft.	
I. Well bottom _____ ft. MSL or <u>97</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>98</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6"</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>BW-12a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ or	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>391,050.23</u> ft. N, <u>2,148,624.47</u> ft. E. <input checked="" type="checkbox"/> S <input type="checkbox"/> N	Date Well Installed <u>06/17/2016</u>
Type of Well Well Code <u>61/11</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known

A. Protective pipe, top elevation <u>902.10</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation <u>902.10</u> ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	c. Material: Steel <input type="checkbox"/> 04 <u>NO COVER</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: <u>sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite ... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
17. Source of water (attach analysis, if required): <u>City of Madison</u>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>43.85</u> ft.	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u>
F. Fine sand, top _____ ft. MSL or <u>47.4</u> ft.	b. Volume added _____ ft ³
G. Filter pack, top _____ ft. MSL or <u>47.4</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u>
H. Screen joint, top _____ ft. MSL or <u>48.4</u> ft.	b. Volume added _____ ft ³
I. Well bottom _____ ft. MSL or <u>68.4</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>69</u> ft.	10. Screen material: <u>PVC</u>
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter <u>6</u> in.	b. Manufacturer <u>Monoflex</u>
M. O.D. well casing <u>8.75</u> in.	c. Slot size: _____ 0.02 in.
N. I.D. well casing <u>6.5</u> in.	d. Slotted length: <u>29</u> ft.
	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Construction of BW-12b</u> Other <input checked="" type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>BW-12b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	Lat. _____ " Long. _____ " or _____	Date Well Installed m / d / y
Type of Well Well Code <u>61 / U</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation <u>902.10</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>No cover</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>902.10</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: <u>sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: <u>KU</u> Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>69</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>73.8</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>73.8</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: _____ 0.02 in. d. Slotted length: <u>20</u> ft.
H. Screen joint, top _____ ft. MSL or <u>74.8</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
I. Well bottom _____ ft. MSL or <u>94.8</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>98</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>BW-13a</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <u>NA</u> DNR Well ID No. <u>NA</u>
Facility ID <u>NA</u>	Lat. _____ Long. _____ or St. Plane <u>391,080.70</u> ft. N. <u>2,148,622.11</u> ft. E. <u>SC/N</u>	Date Well Installed <u>06/15/2016</u> m m d d y y v v y
Type of Well Well Code <u>61, ij</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger State Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number _____
Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		

A. Protective pipe, top elevation <u>902.40</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>NO COVER</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>902.40</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: <u>asphalt</u> Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: <u>sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. <u>10</u> % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>44</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>48.9</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>48.9</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: _____ 0.02 in. d. Slotted length: <u>20</u> ft.
H. Screen joint, top _____ ft. MSL or <u>50</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Construction of BW-13b</u> Other <input checked="" type="checkbox"/>
I. Well bottom _____ ft. MSL or <u>70</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>71.2</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6</u> " in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm EnviroForensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Klinke Clothing Care</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>BW-3b</u>
Facility License, Permit or Monitoring No. <u>02-13-551928</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____	Wis. Unique Well No. <u>NA</u> DNR Well ID No. _____
Facility ID <u>NA</u>	St. Plane <u>391,080.70</u> ft. N. <u>2,48,622.1</u> ft. E. <input checked="" type="checkbox"/> S/C/N	Date Well Installed <u>06/15/2016</u> m m d d y y y y
Type of Well Well Code <u>61 / U</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Mark Cramton</u> <u>Badger state Drilling</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
	Gov. Lot Number _____	

A. Protective pipe, top elevation <u>902.40</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 <u>NO COVER</u> Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>902.40</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>2</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 <u>asphalt</u> Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>sand</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 <u>KV</u> Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. <u>Bentonite pellets</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>NA</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>R.W. Sidley, Inc #5</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>City of Madison</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>71.2</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>76</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: _____ 0.02 in. d. Slotted length: <u>30</u> ft.
G. Filter pack, top _____ ft. MSL or <u>76</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>77</u> ft.	
I. Well bottom _____ ft. MSL or <u>97</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>98</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>98</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>8.75</u> in.	
N. I.D. well casing <u>6.5</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm EnviroForensics

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Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W		Well Name BW-14a	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____ or _____		Wis. Unique Well No. VY 802 DNR Well ID No. _____	
Facility ID NA		St. Plane 391, 102.56 ft. N, 2, 148, 625.07 ft. E. (S/C/N)		Date Well Installed 03/20/2016 m m d d y y v v v v	
Type of Well Well Code 61 / 11		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

- A. Protective pipe, top elevation - **903.26** ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation - **903.26** ft. MSL
- D. Surface seal, bottom _____ ft. MSL or - **2** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

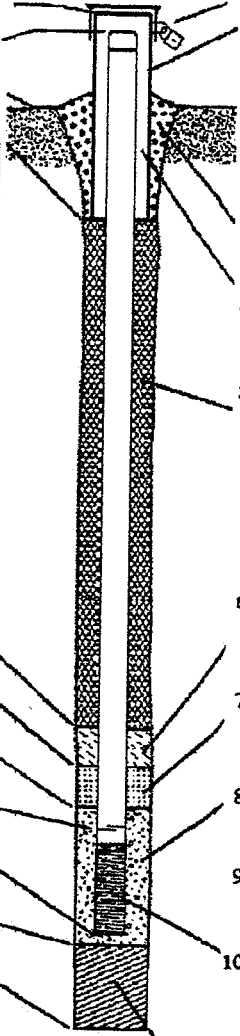
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **12** in.
 - b. Length: **1** ft.
 - c. Material: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe:
sand
Bentonite 3 0
Other
- 5. Annular space seal: a. Granular/Chipped Bentonite 3 3
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight ... Bentonite slurry 3 1
d. **10** % Bentonite ... Bentonite-cement grout 5 0
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal: a. Bentonite granules 3 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
a. **A.W. Sidley, Inc #7**
b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
a. **A.W. Sidley, Inc #5**
b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other
- 10. Screen material: **PVC**
a. Screen type: Factory cut 1 1
Continuous slot 0 1
Other
- b. Manufacturer **Monoflex**
c. Slot size: **0.02** in.
d. Slotted length: **20** ft.
- 11. Backfill material (below filter pack): None 1 4
Construction of BW-14b Other

- E. Bentonite seal, top _____ ft. MSL or **45.0** ft.
- F. Fine sand, top _____ ft. MSL or **47.5** ft.
- G. Filter pack, top _____ ft. MSL or **47.5** ft.
- H. Screen joint, top _____ ft. MSL or **49.8** ft.
- I. Well bottom _____ ft. MSL or **69.8** ft.
- J. Filter pack, bottom _____ ft. MSL or **71** ft.
- K. Borehole, bottom _____ ft. MSL or **98** ft.
- L. Borehole, diameter **6** in.
- M. O.D. well casing **8.75** in.
- N. I.D. well casing **6.25** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Handwritten Signature]*

Firm **EnviroForensics**

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Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name BW-14 b	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. VY 802 DNR Well ID No.	
Facility ID NA		Lat. _____ Long. _____ or		Date Well Installed 03/20/2016 m m d d y y v v v v	
Type of Well Well Code 61 / 6j		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

A. Protective pipe, top elevation **903.26** ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation **903.26** ft. MSL
 D. Surface seal, bottom _____ ft. MSL or **2** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

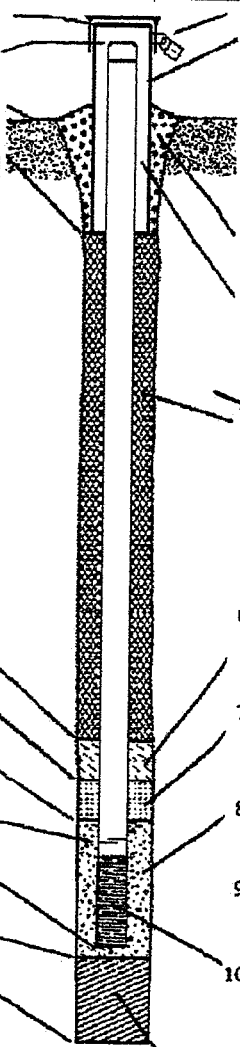
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: **12** in.
 b. Length: **1** ft.
 c. Material: Steel 0 4
 Other

d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other

4. Material between well casing and protective pipe:
sand Bentonite 3 0
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight... Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight... Bentonite slurry 3 1
 d. _____ % Bentonite... Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above 4 0
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8

6. Bentonite seal:
 a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. **bentonite pellets** Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #7**
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other

10. Screen material: **PVC**
 a. Screen type: Factory cut 1 1
 Continuous slot 0 1
 Other

b. Manufacturer **Manaflex**
 c. Slot size: **0.02** in.
 d. Slotted length: **20** ft.

11. Backfill material (below filter pack): None 1 4
 Other

E. Bentonite seal, top _____ ft. MSL or **71** ft.
 F. Fine sand, top _____ ft. MSL or **75.5** ft.
 G. Filter pack, top _____ ft. MSL or **75.5** ft.
 H. Screen joint, top _____ ft. MSL or **77** ft.
 I. Well bottom _____ ft. MSL or **97** ft.
 J. Filter pack, bottom _____ ft. MSL or **98** ft.
 K. Borehole, bottom _____ ft. MSL or **98** ft.
 L. Borehole, diameter **6** in.
 M. O.D. well casing **8.75** in.
 N. I.D. well casing **6.25** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature *[Signature]* Firm **Enviro Forensics**

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Facility/Project Name: Klinke Clothing Care
 Facility License, Permit or Monitoring No.: 02-13-551928
 Facility ID: NA
 Type of Well: 61, ij
 Well Code: 61, ij
 Distance from Waste/Source: 903.30 ft. Apply

Local Grid Location of Well: 391, 133.04 ft. N, 48, 605.37 ft. E. (S/C/N)
 Local Grid Origin (estimated) or Well Location: or
 Lat. _____ Long. _____
 Section Location of Waste/Source: 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____
 Location of Well Relative to Waste/Source: Upgradient Sidegradient Downgradient Not Known
 Gov. Lot Number: _____

Well Name: BW-15 a
 Wis. Unique Well No.: VY 803
 DNR Well ID No.: _____
 Date Well Installed: 03/21/2016
 Well Installed By: Name (first, last) and Firm: Kevin Duerst
Badger State Drilling

- A. Protective pipe, top elevation 903.30 ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation 903.30 ft. MSL
- D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

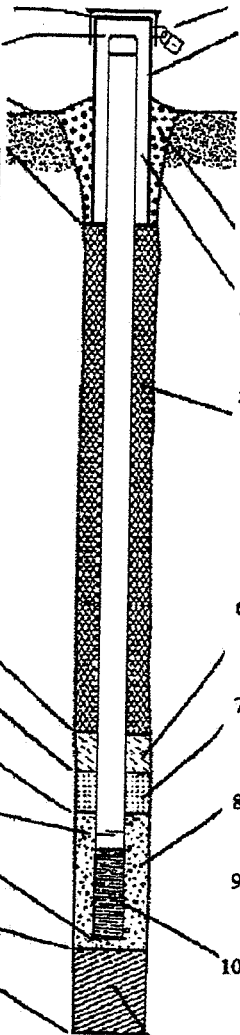
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 12 in.
 - b. Length: 1 ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30
Concrete 01
Other
- 4. Material between well casing and protective pipe: Bentonite 30
Other sand
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight Bentonite slurry 31
 - d. 10 % Bentonite Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. A.W. Sidley, Inc #7
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: PVC
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer Manaflex
 c. Slot size: 0.02 in.
 d. Slotted length: 20 ft.
- 11. Backfill material (below filter pack): None 14
Construction of BW-15 b Other

- E. Bentonite seal, top _____ ft. MSL or 43 ft.
- F. Fine sand, top _____ ft. MSL or 47.5 ft.
- G. Filter pack, top _____ ft. MSL or 49 ft.
- H. Screen joint, top _____ ft. MSL or 50 ft.
- I. Well bottom _____ ft. MSL or 70 ft.
- J. Filter pack, bottom _____ ft. MSL or 71.2 ft.
- K. Borehole, bottom _____ ft. MSL or 99 ft.
- L. Borehole, diameter 6 in.
- M. O.D. well casing 8.75 in.
- N. I.D. well casing 6.25 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature: [Signature] Firm: EnviroForensics

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Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name BW-15 b
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated) <input type="checkbox"/> or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. VY 803 DNR Well ID No.
Facility ID NA	Lat. 39.133.04 " Long. 2,148,625.34 ft. E. <input checked="" type="checkbox"/> S. <input type="checkbox"/> N.	Date Well Installed 03/21/2016
Type of Well Well Code 61, ij	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Kevin Duerst Becker State Drilling
Distance from Waste/Source <input type="checkbox"/> ft. <input type="checkbox"/> Enfl. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number

A. Protective pipe, top elevation **903.30** ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation **903.30** ft. MSL
 D. Surface seal, bottom _____ ft. MSL or **2** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

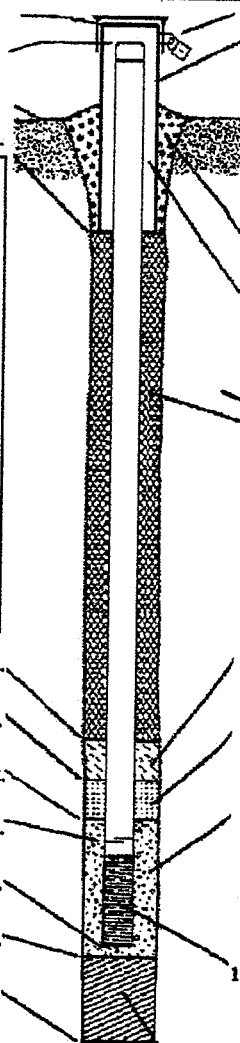
13. Sieve analysis performed? Yes No

14. Drilling method used:
 Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



- Cap and lock? Yes No
- Protective cover pipe:
 - Inside diameter: **12** in.
 - Length: **1** ft.
 - Material: Steel 04
Other
 - Additional protection? Yes No
If yes, describe: _____
- Surface seal: Bentonite 30
Concrete 01
Other
- Material between well casing and protective pipe:
sand Bentonite 30
Other
- Annular space seal:
 - Granular/Chipped Bentonite 33
 - 1** lbs/gal mud weight... Bentonite-sand slurry 35
 - 1** lbs/gal mud weight... Bentonite slurry 31
 - 0** % Bentonite... Bentonite-cement grout 50
 - 0** Ft³ volume added for any of the above **0**
 - How installed: Tremie 01
Tremie pumped 02
Gravity 08
- Bentonite seal:
 - Bentonite granules 33
 - 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - bentonite pellets** Other
- Fine sand material: Manufacturer, product name & mesh size
 - R.W. Sidley, Inc #7**
 - Volume added _____ ft³
- Filter pack material: Manufacturer, product name & mesh size
 - R.W. Sidley, Inc #5**
 - Volume added _____ ft³
- Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- Screen material: **PVC**
 - Screen type: Factory cut 11
 Continuous slot 01
 Other
 - Manufacturer **Manflex**
 - Slot size: **0.02** in.
 - Slotted length: **20** ft.
- Backfill material (below filter pack): None 14
 Other

E. Bentonite seal, top _____ ft. MSL or **71.2** ft.
 F. Fine sand, top _____ ft. MSL or **76** ft.
 G. Filter pack, top _____ ft. MSL or **77** ft.
 H. Screen joint, top _____ ft. MSL or **77** ft.
 I. Well bottom _____ ft. MSL or **97** ft.
 J. Filter pack, bottom _____ ft. MSL or **99** ft.
 K. Borehole, bottom _____ ft. MSL or **99** ft.
 L. Borehole, diameter **6** in.
 M. O.D. well casing **8.75** in.
 N. I.D. well casing **6.25** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature *[Signature]* Firm **Enviro-Forensics**

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name BW-16 a	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. VY 804 DNR Well ID No.	
Facility ID NA		St. Plane 391, 156.72 ft. N. 2, 148, 624.18 ft. E. <input checked="" type="checkbox"/> C/N		Date Well Installed 03/19/2016	
Type of Well Well Code 6i, ij		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Mark Badger State Drilling	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

- A. Protective pipe, top elevation **903.99** ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation **903.99** ft. MSL
- D. Surface seal, bottom _____ ft. MSL or **2** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

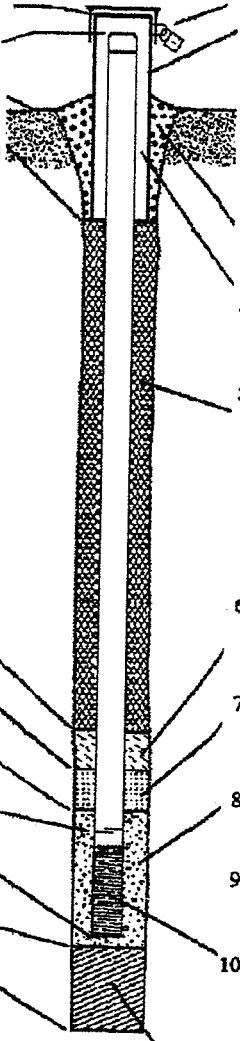
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **12** in.
 - b. Length: **7** ft.
 - c. Material: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe:
 - Bentonite 3 0
 - Other
 - sand**
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 3 3
 - b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight ... Bentonite slurry 3 1
 - d. **10** % Bentonite ... Bentonite-cement grout 5 0
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. **R.W. Sidley, Inc #7**
 - b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. **R.W. Sidley, Inc #5**
 - b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
- 10. Screen material: **PVC**
 - a. Screen type: Factory cut 1 1
Continuous slot 0 1
Other
 - b. Manufacturer **Monoflex**
 - c. Slot size: **0.02** in.
 - d. Slotted length: **20** ft.
- 11. Backfill material (below filter pack): None 1 4
Construction of BW-16 b Other

- E. Bentonite seal, top _____ ft. MSL or **46.5** ft.
- F. Fine sand, top _____ ft. MSL or **48.25** ft.
- G. Filter pack, top _____ ft. MSL or **48.25** ft.
- H. Screen joint, top _____ ft. MSL or **49.25** ft.
- I. Well bottom _____ ft. MSL or **69.25** ft.
- J. Filter pack, bottom _____ ft. MSL or **70.3** ft.
- K. Borehole, bottom _____ ft. MSL or **99** ft.
- L. Borehole, diameter **6** in.
- M. O.D. well casing **8.75** in.
- N. I.D. well casing **6.25** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm **EnviroForensics**

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Facility/Project Name: Klinke Clothing Care
 Facility License, Permit or Monitoring No.: 02-13-551928
 Facility ID: NA
 Type of Well: Well Code 61 / 11
 Distance from Waste/Source: NA ft. Apply

Local Grid Location of Well: 391136.72 ft. N, 2,148,624.18 ft. E. S/C/N
 Local Grid Origin (estimated) or Well Location
 Section Location of Waste/Source: 1/4 of 1 1/4 of Sec. 1 T. 1 N. R. 1 E. W
 Location of Well Relative to Waste/Source: Downgradient Upgradient Sidegradient Not Known
 Gov. Lot Number: Mark

Well Name: BW-16 b
 Wis. Unique Well No.: VY-804
 DNR Well ID No.: 03/19/2016
 Date Well Installed: 03/19/2016
 Well Installed By: Name (first, last) and Firm: Mark Badger State Drilling

- A. Protective pipe, top elevation 793.97 ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation 793.99 ft. MSL
- D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

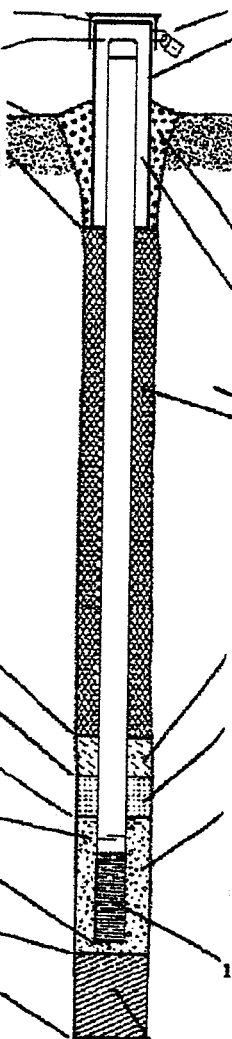
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required): _____



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 12 in.
 - b. Length: 1 ft.
 - c. Material: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe: Bentonite 3 0
Other sand
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 3 3
 - b. _____ Lbs/gal mud weight... Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight... Bentonite slurry 3 1
 - d. _____ % Bentonite... Bentonite-cement grout 5 0
 - e. _____ Ft³ volume added for any of the above 14
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 - c. bentonite pellets Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #7
- b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
- b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
- 10. Screen material: PVC
 - a. Screen type: Factory cut 1 1
 Continuous slot 0 1
 Other
 - b. Manufacturer Manaflex
 - c. Slot size: 0.02 in.
 - d. Slotted length: 20 ft.
- 11. Backfill material (below filter pack): None 1 4
 Other

- E. Bentonite seal, top _____ ft. MSL or 70 ft.
- F. Fine sand, top _____ ft. MSL or 74.8 ft.
- G. Filter pack, top _____ ft. MSL or 76 ft.
- H. Screen joint, top _____ ft. MSL or 77 ft.
- I. Well bottom _____ ft. MSL or 97 ft.
- J. Filter pack, bottom _____ ft. MSL or 99 ft.
- K. Borehole, bottom _____ ft. MSL or 99 ft.
- L. Borehole, diameter 6 in.
- M. O.D. well casing 8.75 in.
- N. I.D. well casing 6.25 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: EnviroForensics

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Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name BW-17a
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____	Wis. Unique Well No. VY805 DNR Well ID No. _____
Facility ID NA	St. Plane 391,175.44 ft. N. 2,148,624.55 ft. E. SC/N	Date Well Installed 03/20/2016 m m d d y y v v
Type of Well Well Code 6i, ij	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Mark Badger State Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation - **903.87** ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation - **903.87** ft. MSL
- D. Surface seal, bottom - _____ ft. MSL or **2** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

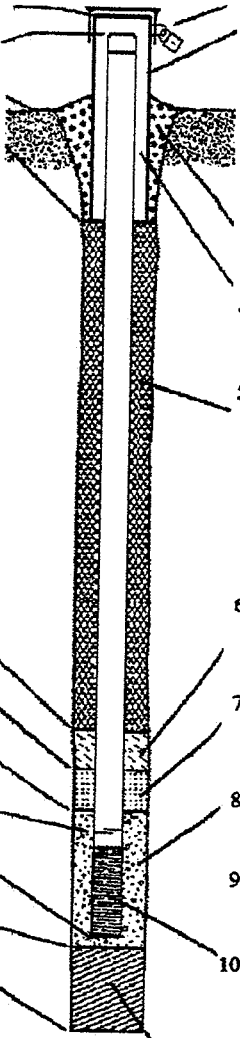
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **12** in.
 - b. Length: **1** ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30
Concrete 01
Other
- 4. Material between well casing and protective pipe:
sand
Bentonite 30
Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 - d. **10** % Bentonite ... Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
a. **R.W. Sidley, Inc #7**
b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
a. **R.W. Sidley, Inc #5**
b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other
- 10. Screen material: **PVC**
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer **Monoflex**
 - c. Slot size: **0.02** in.
 - d. Slotted length: **20** ft.
- 11. Backfill material (below filter pack): None 14
Construction of BW-17 b Other

- E. Bentonite seal, top - _____ ft. MSL or **43.5** ft.
- F. Fine sand, top - _____ ft. MSL or **48** ft.
- G. Filter pack, top - _____ ft. MSL or **48** ft.
- H. Screen joint, top - _____ ft. MSL or **50** ft.
- I. Well bottom - _____ ft. MSL or **70** ft.
- J. Filter pack, bottom - _____ ft. MSL or **71** ft.
- K. Borehole, bottom - _____ ft. MSL or **99** ft.
- L. Borehole, diameter **6** in.
- M. O.D. well casing **8.75** in.
- N. I.D. well casing **6.25** in.

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Route to: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

Facility/Project Name: Klinke Clothing Care
 Facility License, Permit or Monitoring No.: 02-13-551928
 Facility ID: NA
 Type of Well: 61
 Well Code: 1-U
 Distance from Waste/Source: 61 ft. Apply

Local Grid Location of Well: 391, 175.44 ft. N, 2, 148, 624.55 ft. E. SC/N
 Local Grid Origin (estimated) or Well Location: N, S, E, W
 Lat. _____ Long. _____
 Section Location of Waste/Source: 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____
 Location of Well Relative to Waste/Source: Upgradient Sidegradient Downgradient Not Known
 Gov. Lot Number _____

Well Name: BW-17 b
 Wis. Unique Well No.: VY-805
 DNR Well ID No.: _____
 Date Well Installed: 03/20/2016
 Well Installed By: Name (first, last) and Firm: Mark
Bogder State Drilling

A. Protective pipe, top elevation: 903.8 ft. MSL
 B. Well casing, top elevation: _____ ft. MSL
 C. Land surface elevation: 903.87 ft. MSL
 D. Surface seal, bottom: 2 ft. MSL or _____ ft.

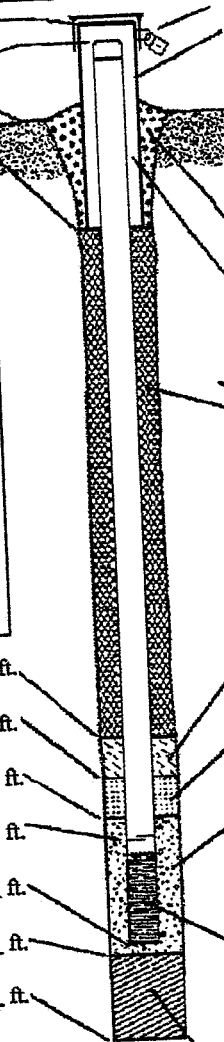
12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No
 14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: 12 in.
 b. Length: 1 ft.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: _____
 3. Surface seal:
 Bentonite 30
 Concrete 01
 Other
 4. Material between well casing and protective pipe:
 Bentonite 30
 Other sand
 5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. Lbs/gal mud weight... Bentonite-sand slurry 35
 c. Lbs/gal mud weight... Bentonite slurry 31
 d. % Bentonite... Bentonite-cement grout 50
 e. Ft³ volume added for any of the above: 4
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08
 6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. bentonite pellets Other
 7. Fine sand material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #7
 b. Volume added _____ ft³
 8. Filter pack material: Manufacturer, product name & mesh size
 a. R.W. Sidley, Inc #5
 b. Volume added _____ ft³
 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
 10. Screen material: PVC
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer: Monaflex 0.02 in.
 c. Slot size: _____
 d. Slotted length: 20 ft.
 11. Backfill material (below filter pack):
 None 14
 Other

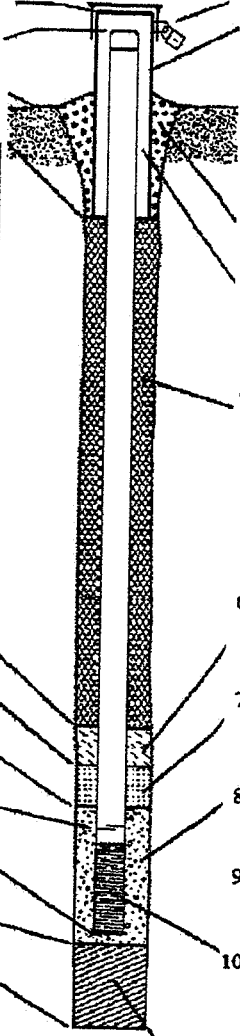
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Signature: [Signature] Firm: Enviro-Forensics

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Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name BW-18 a	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ Long. _____ or _____		Wis. Unique Well No. VY 806 DNR Well ID No. _____	
Facility ID NA		St. Plane 391, 194.79 ft. N. 2, 148, 624.49 ft. E. (S)/N		Date Well Installed 03/22/2016	
Type of Well Well Code 61 / 11		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. _____ <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Installed By: Name (first, last) and Firm Kevin Duerst Badger State Drilling	
Distance from Waste/Source _____ ft. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

A. Protective pipe, top elevation - 903.75 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 12 in. b. Length: 1 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>												
C. Land surface elevation - 903.75 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____												
D. Surface seal, bottom - 2 ft. MSL or _____ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>												
<table border="1"> <tr> <td colspan="2">12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/></td> </tr> <tr> <td>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> <td></td> </tr> <tr> <td>14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/></td> <td></td> </tr> <tr> <td>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99</td> <td></td> </tr> <tr> <td>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</td> <td></td> </tr> <tr> <td colspan="2">17. Source of water (attach analysis, if required): _____</td> </tr> </table>		12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>		13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>		15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99		16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____		17. Source of water (attach analysis, if required): _____	
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14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>													
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99													
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____													
17. Source of water (attach analysis, if required): _____													
E. Bentonite seal, top - 43 ft. MSL or _____ ft.	4. Material between well casing and protective pipe: sand Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>												
F. Fine sand, top - 46.5 ft. MSL or _____ ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. 10 % Bentonite ... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above												
G. Filter pack, top - 47.5 ft. MSL or _____ ft.	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08												
H. Screen joint, top - 48.6 ft. MSL or _____ ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>												
I. Well bottom - 68.6 ft. MSL or _____ ft.	7. Fine sand material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #7 b. Volume added _____ ft ³												
J. Filter pack, bottom - 71 ft. MSL or _____ ft.	8. Filter pack material: Manufacturer, product name & mesh size a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³												
K. Borehole, bottom - 99 ft. MSL or _____ ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>												
L. Borehole, diameter - 6 in.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>												
M. O.D. well casing - 8.75 in.	b. Manufacturer Monoflex c. Slot size: 0.02 in. d. Slotted length: 20 ft.												
N. I.D. well casing - 6.25 in.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Construction of BW-18 b Other <input checked="" type="checkbox"/>												



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name BW-19 b
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ Long. _____ or _____	Wis. Unique Well No. VY 807 DNR Well ID No. _____
Facility ID NA	St. Plane 391,220.49 ft. N., 2,148,630.99 ft. E. S/C/N	Date Well Installed 03/23/2016 m m d d y y v v y
Type of Well Well Code 61 / 1j	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Mark Bedger State Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation - **903.32** ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation - **903.32** ft. MSL
 D. Surface seal, bottom _____ ft. MSL or **2** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

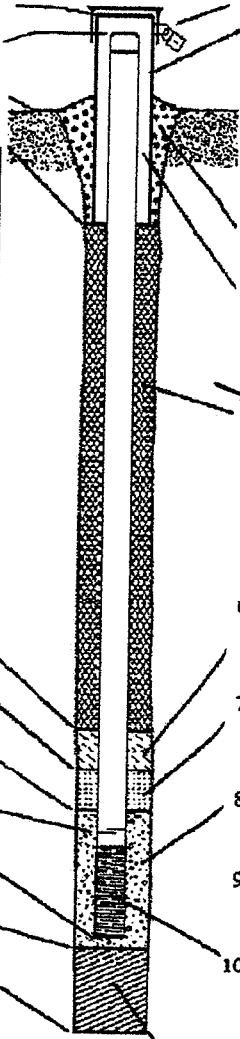
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: **12** in.
 b. Length: **1** ft.
 c. Material: Steel 04
 Other

3. Surface seal:
 Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe:
 Bentonite 30
 Other **sand**

5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 d. _____ % Bentonite ... Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above **KV**
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08

6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. **bentonite pellets** Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #7**
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. **R.W. Sidley, Inc #5**
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other

10. Screen material: **PVC**
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer **Manaflex**
 c. Slot size: **0.02** in.
 d. Slotted length: **20** ft.

11. Backfill material (below filter pack): None 14
 Other

E. Bentonite seal, top _____ ft. MSL or **70** ft.
 F. Fine sand, top _____ ft. MSL or **74.5** ft.
 G. Filter pack, top _____ ft. MSL or **76** ft.
 H. Screen joint, top _____ ft. MSL or **77** ft.
 I. Well bottom _____ ft. MSL or **97** ft.
 J. Filter pack, bottom _____ ft. MSL or **99** ft.
 K. Borehole, bottom _____ ft. MSL or **99** ft.
 L. Borehole, diameter **6** in.
 M. O.D. well casing **8.75** in.
 N. I.D. well casing **6.75** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature *[Signature]* Firm **EnviroForensics**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Klinke Clothing Care		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name BW-20 a	
Facility License, Permit or Monitoring No. 02-13-551928		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or		Wis. Unique Well No. VY 808 DNR Well ID No. _____	
Facility ID NA		St. Plane 391,239.59 ft. N. 2,148,649.74 ft. E. (S)/N		Date Well Installed 03/21/2016 m m d d y y y y	
Type of Well Well Code 61/11		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Mark Badger State Drilling	
Distance from Waste/Source _____ ft. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

A. Protective pipe, top elevation	902.79 ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	_____ ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	902.79 ft. MSL	a. Inside diameter:	12 in.
D. Surface seal, bottom	2 ft. MSL or	b. Length:	1 ft.
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> 13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/> 15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input checked="" type="checkbox"/> 03 None <input type="checkbox"/> 99 16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____ 17. Source of water (attach analysis, if required): _____		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
		d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
		3. Surface seal:	Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
		4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 30 sand <input checked="" type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 44 ft. F. Fine sand, top _____ ft. MSL or 48 ft. G. Filter pack, top _____ ft. MSL or 49 ft. H. Screen joint, top _____ ft. MSL or 50 ft. I. Well bottom _____ ft. MSL or 70 ft. J. Filter pack, bottom _____ ft. MSL or 71 ft. K. Borehole, bottom _____ ft. MSL or 99 ft. L. Borehole, diameter 6 in. M. O.D. well casing 8.75 in. N. I.D. well casing 6.25 in.		5. Annular space seal:	a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. 10 % Bentonite... Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
		6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
		7. Fine sand material: Manufacturer, product name & mesh size	a. R.W. Sidley, Inc #7 b. Volume added _____ ft ³
		8. Filter pack material: Manufacturer, product name & mesh size	a. R.W. Sidley, Inc #5 b. Volume added _____ ft ³
		9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
		10. Screen material:	PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
11. Backfill material (below filter pack): Construction of BW- b Other <input checked="" type="checkbox"/>		b. Manufacturer	Manoflex
		c. Slot size:	0.02 in.
		d. Slotted length:	20 ft.

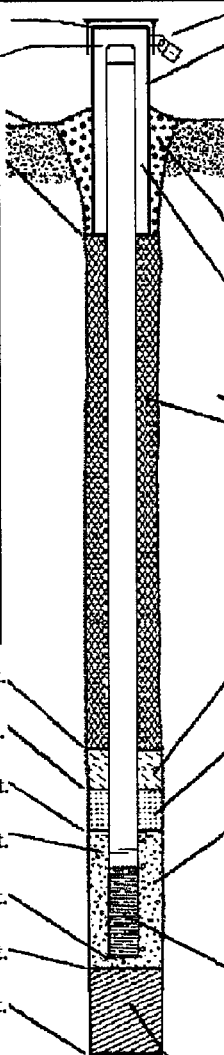
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **EnviroForensics**

Facility/Project Name Klinke Clothing Care	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name BW-20 b
Facility License, Permit or Monitoring No. 02-13-551928	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or	Wis. Unique Well No. VY 808 DNR Well ID No. _____
Facility ID NA	St. Plane 391,239.59 ft. N, 2,148,649.74 ft. E. (S)/N	Date Well Installed 03/21/2016 m m d d y y v v y
Type of Well Well Code 61 / U	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Mark Badger State Drilling
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number _____	

A. Protective pipe, top elevation 902.79 ft. MSL
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation 902.79 ft. MSL
 D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock
 13. Sieve analysis performed? Yes No
 14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other
 15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99
 16. Drilling additives used? Yes No
 Describe _____
 17. Source of water (attach analysis, if required): _____



- Cap and lock? Yes No
- Protective cover pipe:
 - Inside diameter: 12 in.
 - Length: 1 ft.
 - Material: Steel 04
Other
 - Additional protection? Yes No
If yes, describe: _____
- Surface seal: Bentonite 30
Concrete 01
Other
- Material between well casing and protective pipe:
 - Bentonite 30
 - Other
- Annular space seal:
 - Granular/Chipped Bentonite 33
 - Lbs/gal mud weight... Bentonite-sand slurry 35
 - Lbs/gal mud weight... Bentonite slurry 31
 - % Bentonite... Bentonite-cement grout 50
 - Ft³ volume added for any of the above 14
 - How installed: Tremie 01
Tremie pumped 02
Gravity 08
- Bentonite seal:
 - Bentonite granules 33
 - 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - bentonite pellets Other
- Fine sand material: Manufacturer, product name & mesh size
 - R.W. Sidley, Inc #7
 - Volume added _____ ft³
- Filter pack material: Manufacturer, product name & mesh size
 - R.W. Sidley, Inc #5
 - Volume added _____ ft³
- Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other
- Screen material: PVC
 - Screen type: Factory cut 11
Continuous slot 01
Other
 - Manufacturer Monoflex
 - Slot size: 0.02 in.
 - Slotted length: 20 ft.
- Backfill material (below filter pack): None 14
Other

E. Bentonite seal, top _____ ft. MSL or 71 ft.
 F. Fine sand, top _____ ft. MSL or 75.5 ft.
 G. Filter pack, top _____ ft. MSL or 75.5 ft.
 H. Screen joint, top _____ ft. MSL or 77 ft.
 I. Well bottom _____ ft. MSL or 97 ft.
 J. Filter pack, bottom _____ ft. MSL or 99 ft.
 K. Borehole, bottom _____ ft. MSL or 99 ft.
 L. Borehole, diameter 6 in.
 M. O.D. well casing 8.75 in.
 N. I.D. well casing 6.25 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature [Signature] Firm Enviro-Forensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.



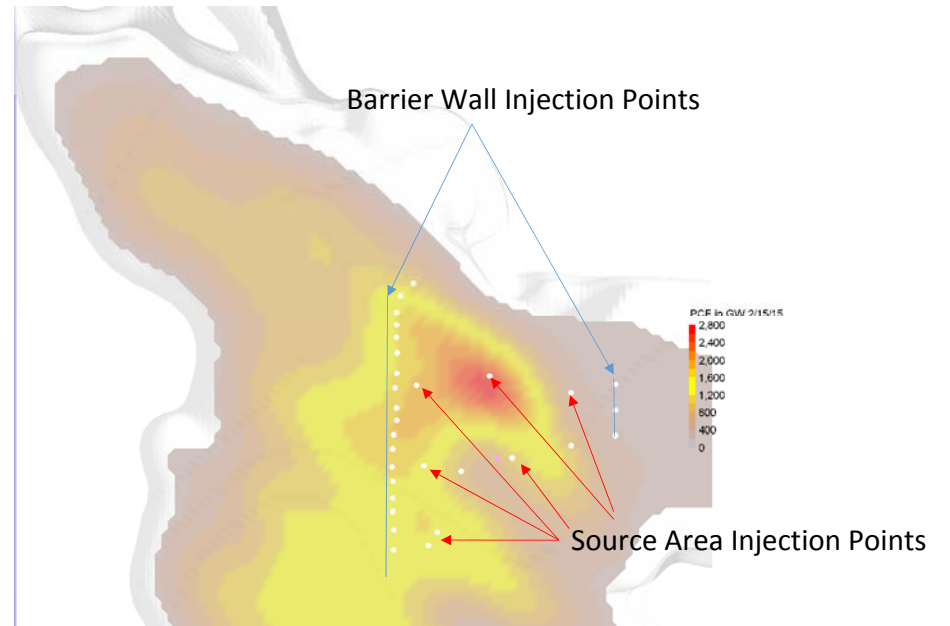
APPENDIX H

3-Dimensional Visualizations of the Near-Source Groundwater Plume

Injections Points Within the Near-source Groundwater Plume

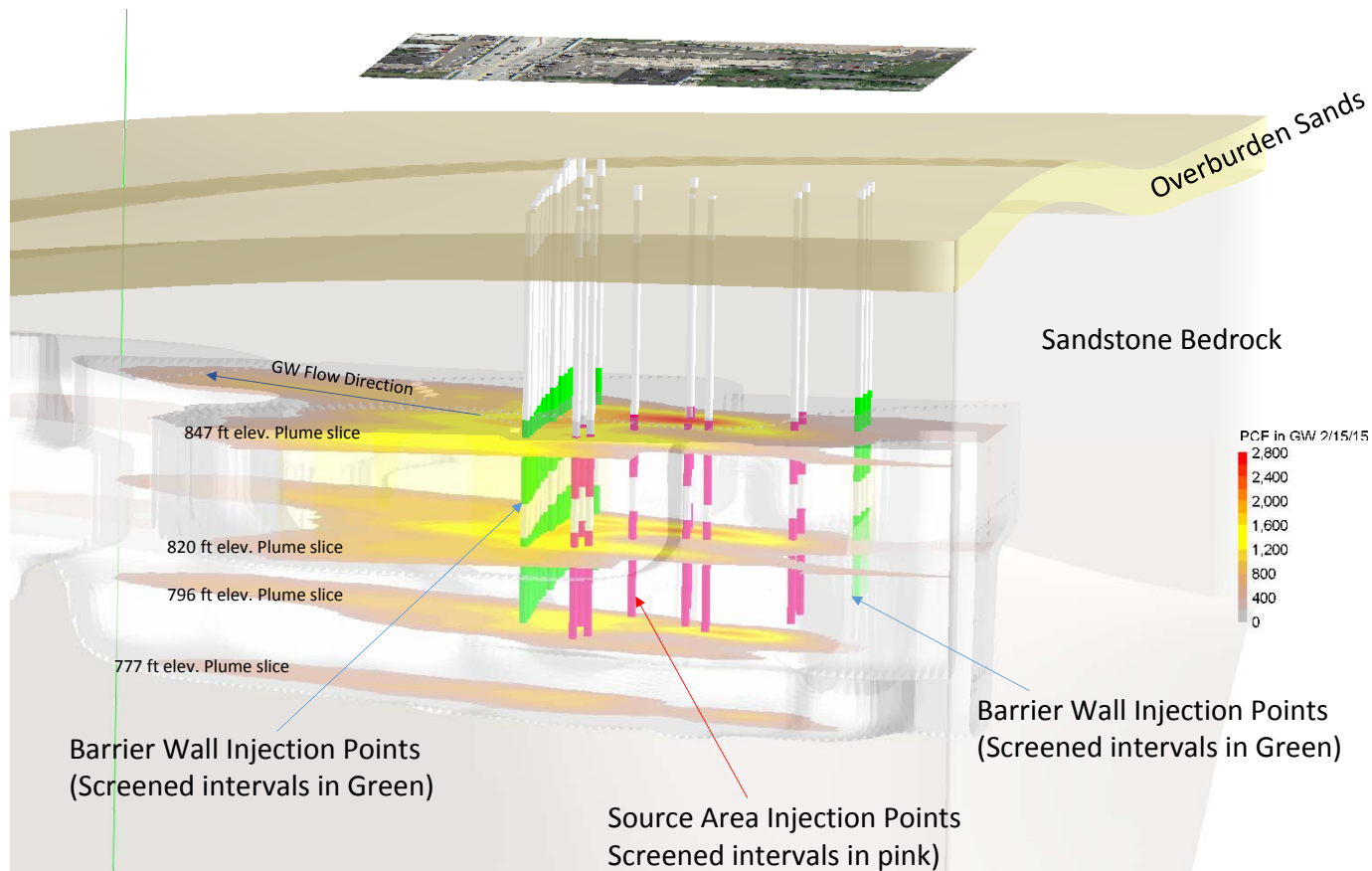


Near-source GW Plume with Aerial Overlay



Near-source GW Plume without Aerial Overlay

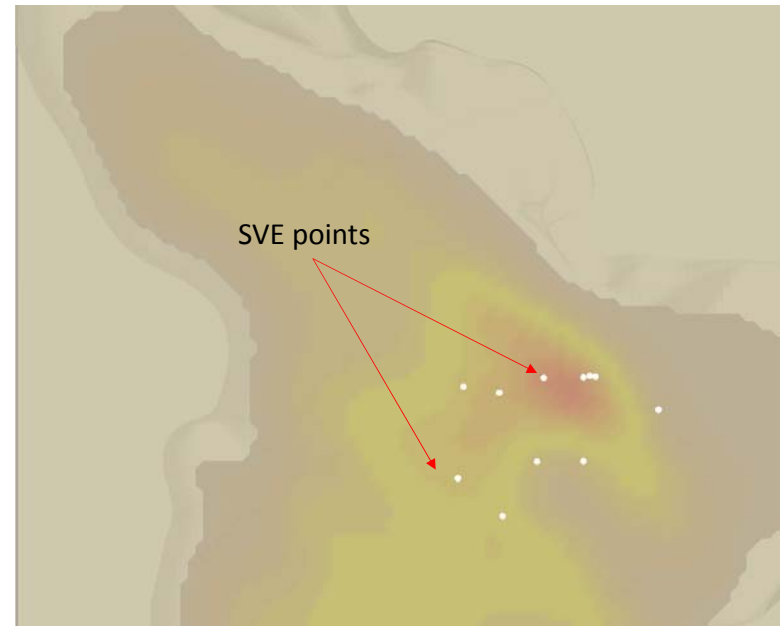
Sideview (looking North) of the Injections Points Within the Near-Source Groundwater Plume



SVE Wells Within the Near-Source Groundwater Plume

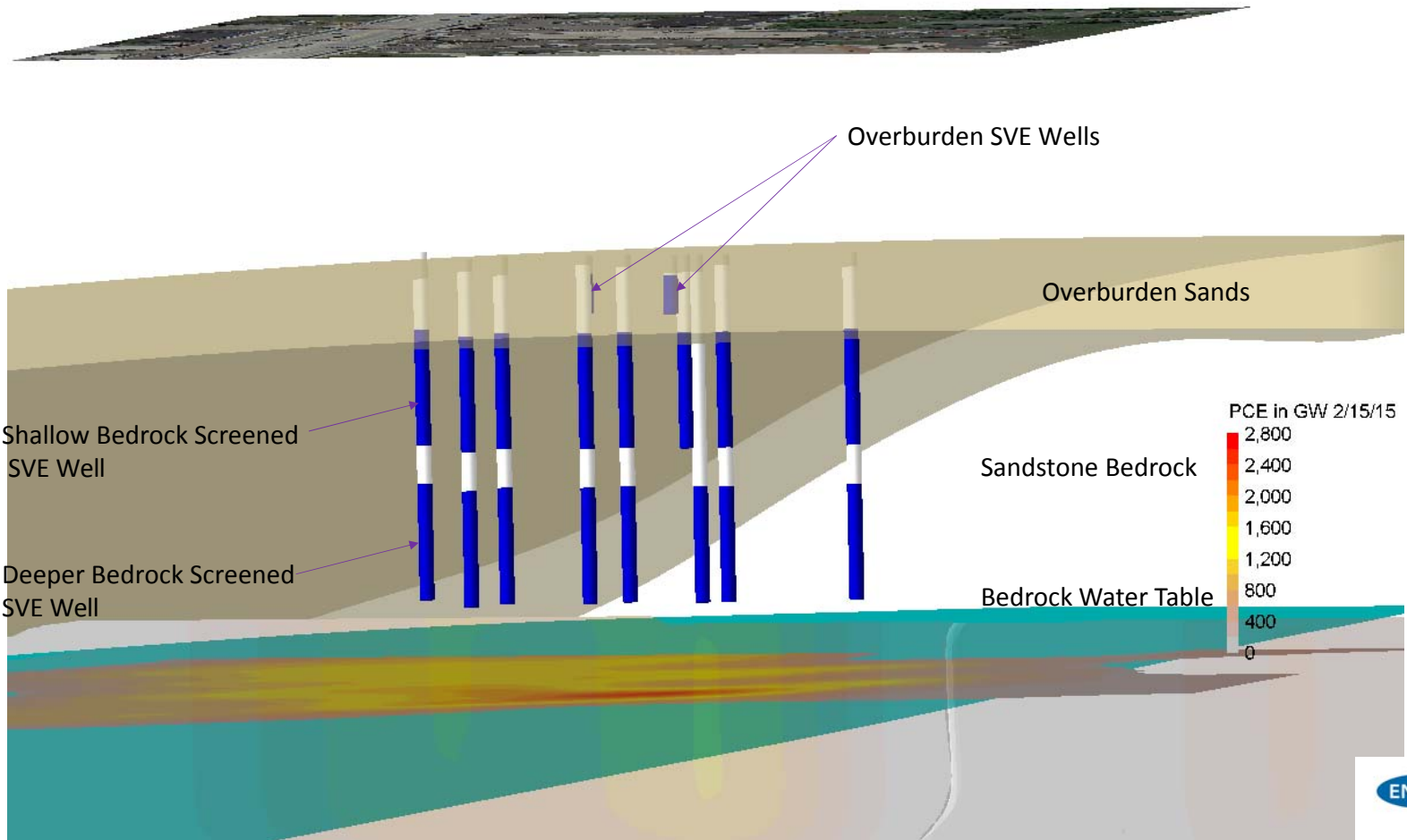


Near-source GW Plume with Aerial Overlay

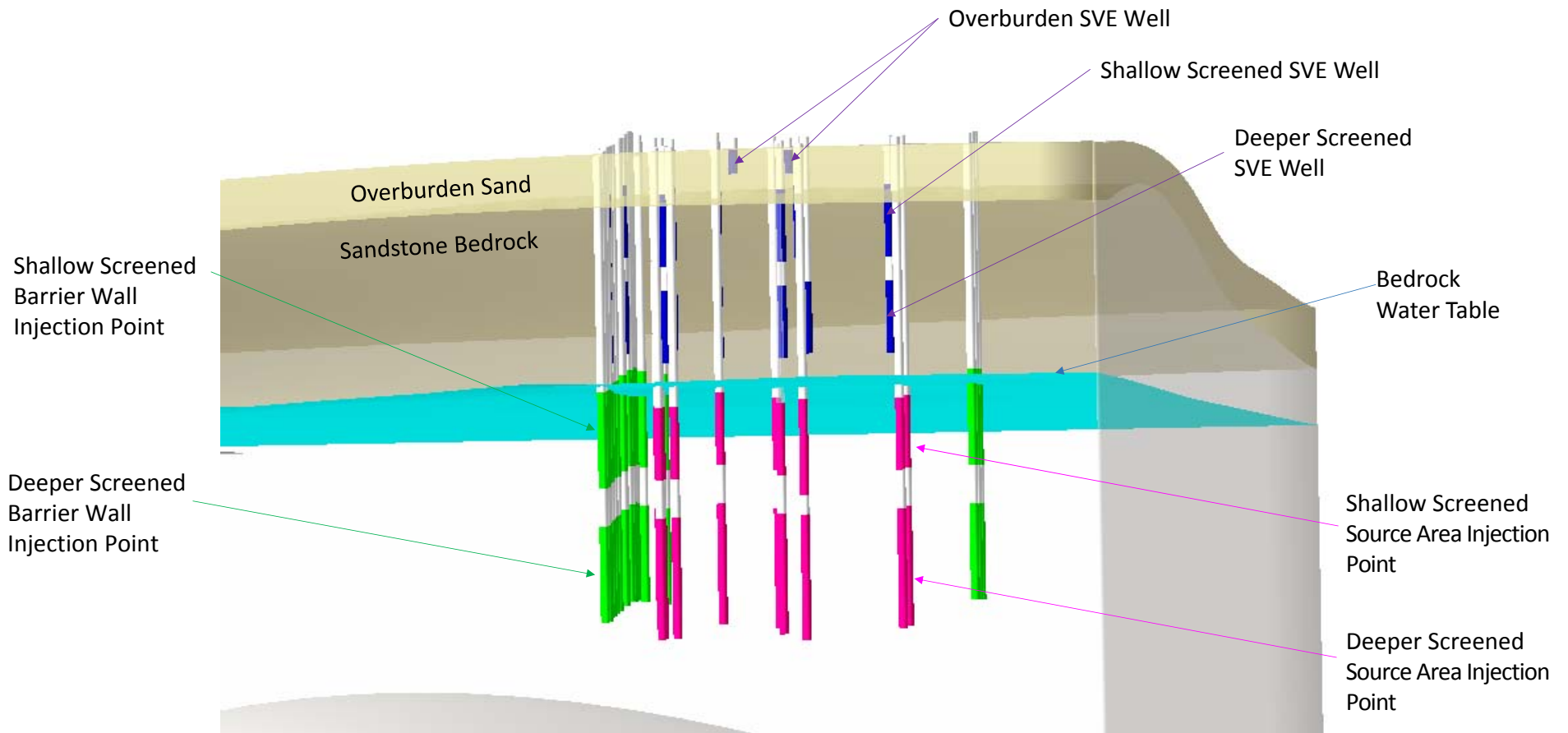


Near-source GW Plume without Aerial Overlay

Sideview (looking Northwest) of the SVE Wells Above the Near-Source Groundwater Plume



Sideview (looking North) of all SVE Wells and Groundwater Injection Points





Appendix I

PlumeStop Phase 1 Application Summary Report

March 31, 2016

Brian Kappan
EnviroForensics
N16 W23390 Stone Ridge Drive, Suite G
Waukesha, WI 53188

RE: Application Summary Report for Phase I at the Klinke Cleaners Site in Madison, Wisconsin

RegenesiS Proposal No. DoD53372

Dear Brian:

RegenesiS Remediation Services (RRS) recently completed an *in-situ* injection application at the Klinke Cleaners Site located at 4518 Monona Drive in Madison, Wisconsin. The turn-key application services included the application of PlumeStop™ Liquid Activated Carbon (PlumeStop) at a single permeable reactive barrier (PRB) placed adjacent to and along the eastern side of Monona Drive to halt further migration of chlorinated solvents beyond the PRB. The target treatment zone was broken into an upper and lower unit utilizing injection wells installed by EnviroForensics. The injection application activities took place from March 21st through March 24th, 2016.

For this phase of the work (Phase I), the injection application consisted of applying PlumeStop at seven (7) nested injection well locations spanning over an approximately 150 foot (ft) length PRB. The injection treatment thickness (20 ft) was based on the screened interval of each injection wells. Please note that during installation of the injection wells, the injection screen interval was modified by EnviroForensics from what was originally proposed based on field observations. See below for further information regarding these modifications. Designed mix ratios (product to water) and standard mixing procedures were utilized in preparing the solutions prior to injection. An injection summary log showing volumes applied per injection well and other noteworthy items is provided in Table 1. A map showing the approximate injection well location is attached as Figure 1. Please reference RegenesiS Proposal No. DoD53372, dated February 25, 2016, for more details on the remediation design scope of work.

On-site Work Summary

General Site Activities

On Monday, March 21st, 2016, RegenesiS performed and completed the following various general site activities in preparation for the injection application:

- Mobilization to the site.
- Review of the Site Specific Health and Safety Plan.
- Review of the scope of work.
- Open discussion of the intent of the remedial application activities.
- Review and walking out the injection well locations.
- Review of subsurface and overhead utilities.
- Staging and setting up the injection trailers.
- Connecting to the on-site water source.

PRB Treatment

The application of PlumeStop began on the morning of Tuesday, March 22nd, 2016 and was completed three (3) days later on Thursday, March 24th, 2016. The approximately 150 linear ft PRB consisted of utilizing seven (7) nested injection well locations each set with two (2) individual wells for a total of 14 individual wells. The nested injection wells were set in pairs with one designated with an upper screened unit and the other designated with a lower screened unit each having a 20 ft injection screen thickness. Of the 14 individual wells, four (4) of them, BW-18 Lower Unit, BW-19 Lower Unit, BW-20 Lower Unit, and BW-19 Upper Unit, did not receive any PlumeStop solution due to the inability to inject the remediation chemistry into the surrounding subsurface area. This is likely due to the tighter consolidated geology identified within these units. During attempts to inject at these locations, pressures exceeded 150 pounds per square inch (psi) with little to no flowrates. Based on this, it was decided to abandoned these locations and redistribute the proposed volumes in the remaining 10 injection well locations. In all, a total of 20,000 pounds (lbs) of PlumeStop or 23,975 gallons of PlumeStop solution (mixed with water), was applied throughout the approximately 150 ft PRB at 10 individual injection well locations. RRS utilized two (2) injection trailers to apply the PlumeStop solution to accommodate local logistics regarding the adjacent high school property and scheduling of spring break. The below table outlines total volumes applied per each individual well location and their respective injection screen intervals.

Injection Well ID	Total Gallons Applied	Actual Screened Interval
BW-14 A	2,397	50-70'
BW-14 B	2,397	77-97'
BW-15 A	2,397	50-70'
BW-15 B	2,397	77-97'
BW-16 A	2,397	49-69'
BW-16 B	2,397	77-97'
BW-17 A	2,397	50-70'
BW-17 B	2,397	77-97'
BW-18 A	2,336	48.5-68.5'
BW-18 B	61	77-97'
BW-19 A	0	49-69'
BW-19 B	0	77-97'
BW-20 A	2,397	50-70'
BW-20 B	0	77-97'
TOTAL:	23,975	

The PlumeStop was prepared in 300 gallons batches consisting of 30 gallons of PlumeStop mixed with 270 gallons of water. The batches were continuously made throughout each day until the full volume was achieved for each individual injection well. As indicated above, four (4) of the injection well volumes were redistributed, which resulted in a larger applied volume than originally proposed (2,397 gallons versus 1,712 gallons) for the remaining injection well locations. For further details regarding the application volumes, quantities, and other noteworthy information for this section of the PRB, please refer to Table 1.

Conclusion

Overall, the full volume of PlumeStop was successfully applied within the PRB at 10 individual injection wells. A total of 20,000 lbs of PlumeStop and 23,975 gallons of PlumeStop solution was applied over the

three (3) application. Low injection pressures and application flowrates were maintained at each of the injection well locations that received the PlumeStop solution. Injection line pressures averaged below 10 psi, while flowrates were maintained at an average below 3.0 gallons per minute (gpm).

RRS appreciates the opportunity to work at this Site with EnviroForensics. If you need additional information regarding the application event or have any questions, please feel free to contact Steve Barnes at 574.349.0650.

REGENESIS



Steven R. Barnes
Project Manager for RRS

Attachment: Figure 1 – Injection Well Locations Map
Table 1 – Injection Log





Enviroforensics - Klinke Cleaners
 PlumeStop Injection Summary Log
 Phase I - Injection Scope



Table 1

Injection Point	Date	Time	Injection Depth (feet)	Avg. Injection Pressure (psi)	Avg. Flow Rate (gpm)	Volume of PlumeStop Injected			Total gallons Per Location	Pounds of PlumeStop Injected Per Location	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Time Period			
BW-14A	3/22/2016	10:57	50-70	0.00	1.58	0	38	38	2397	2000.00	
		12:04		3.00	2.98	38	214	176			
		1:03		3.00	3.08	214	318	104			
		2:27		3.00	3.10	318	554	236			
		3:22		3.00	2.92	554	695	141			
	3/23/2016	8:57		3.00	3.64	695	1041	346			
		9:54		3.00	2.57	1041	1219	178			
		11:23		3.00	2.78	1219	1417	198			
		12:23		2.00	2.84	1417	1613	196			
		1:08		2.00	2.81	1613	1712	99			
	3/24/2016	1:42		3.00	3.22	0	58	58			
		2:53		4.00	4.84	58	285	227			
		11:15		3.00	3.01	0	45	45			
		12:15		3.00	2.89	45	245	200			
		1:30		3.00	2.76	245	400	155			
											Flushed with 15 gallons fresh water.
BW-14B	3/22/2016	11:57	77-97	4.00	2.42	0	45	45	2397	2000.00	
		12:04		3.00	1.92	45	165	120			
		1:03		3.00	2.80	165	364	199			
		2:27		2.00	1.88	364	541	177			
		3:22		4.00	3.32	541	802	261			
	3/23/2016	8:57		3.00	2.98	802	1130	328			
		9:54		3.00	2.93	1130	1308	178			
		11:23		3.00	3.11	1308	1541	233			
		12:15		3.00	3.03	1541	1712	171			
		1:42		4.00	3.35	0	55	55			
	3/24/2016	2:56		3.00	2.74	55	285	230			
		11:15		3.00	2.74	0	35	35			
		12:15		4.00	2.98	35	228	193			
		1:30		4.00	2.96	228	400	172			
											Flushed with 15 gallons fresh water.
											Redistributed volume from BW-18 and 20 Deep Wells
BW-15A	3/22/2016	11:00	50-70	3.00	2.43	0	54	54	2397	2000.00	
		11:57		3.00	2.00	54	175	121			
		1:03		3.00	2.80	175	350	175			
		2:27		3.00	1.87	350	526	176			
		3:22		3.00	2.02	526	622	96			
	3/23/2016	8:57		3.00	2.27	622	936	314			
		9:54		3.00	2.87	936	1121	185			
		11:59		3.00	2.87	1121	1306	185			
		1:03		3.00	2.78	1306	1486	180			
		1:59		3.00	3.03	1486	1712	226			
	3/24/2016	3:08		3.00	2.51	0	77	77			
		4:53		4.00	3.62	77	285	208			
		9:43		2.00	1.42	0	16	16			
		10:33		3.00	2.54	16	163	147			
		11:12		3.00	2.12	163	263	100			
		12:18		3.00	2.25	263	400	137			



Enviroforensics - Klinke Cleaners
 PlumeStop Injection Summary Log
 Phase I - Injection Scope



Table 1

Injection Point	Date	Time	Injection Depth (feet)	Avg. Injection Pressure (psi)	Avg. Flow Rate (gpm)	Volume of PlumeStop Injected			Total gallons Per Location	Pounds of PlumeStop Injected Per Location	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Time Period			
BW-15B	3/22/2016	10:59	77-97	4.00	2.26	0	46	46	2397	2000.00	
		12:04		5.00	3.12	46	198	152			
		1:03		3.00	2.25	198	331	133			
		2:27		3.00	1.86	331	514	183			
		3:22		3.00	2.19	514	609	95			
	3/23/2016	8:57		4.00	2.53	609	946	337			
		9:54		4.00	2.45	946	1099	153			
		11:23		4.00	2.47	1099	1329	230			
		1:43		4.00	3.70	1329	1712	383			
		2:00		4.00	3.73	0	144	144			
	3/24/2016	2:54		4.00	3.21	144	285	141			
		9:43		5.00	6.76	0	56	56			
		10:30		2.00	1.36	56	154	98			
		11:12		4.00	2.29	154	300	146			
		11:43		4.00	2.31	300	400	100			
BW-16A	3/22/2016	9:32	49-69	4.00	2.59	0	113	113	2397	2000.00	
		10:00		3.00	2.14	113	173	60			
		11:00		4.00	2.70	173	320	147			
		12:04		4.00	2.60	320	513	193			
		1:03		4.00	2.98	513	654	141			
	3/23/2016	3:27		4.00	3.06	654	1039	385			
		8:57		4.00	3.02	1039	1408	369			
		9:54		3.00	2.14	1408	1545	137			
		10:59		3.00	2.19	1545	1712	167			
		3/24/2016		9:43	3.00	2.92	0	90			
	10:30			3.00	2.90	90	240	150			
	11:12			2.00	2.37	240	349	109			
	12:19			2.00	2.45	349	469	120			
	1:30			2.00	2.55	469	598	129			
	2:15	2.00		2.55	598	685	87				
BW-16B	3/22/2016	9:32	77-97	3.00	2.55	0	112	112	2397	2000.00	
		10:00		3.00	2.60	112	176	64			
		11:00		3.00	2.64	176	338	162			
		12:04		3.00	2.59	338	498	160			
		1:03		3.00	2.90	498	670	172			
	3/23/2016	2:27		3.00	1.14	670	911	241			
		3:27		3.00	3.00	911	1044	133			
		8:57		3.00	2.53	1044	1400	356			
		9:54		3.00	2.64	1400	1712	312			
		3/24/2016		9:43	3.00	2.45	0	66			
	10:30			3.00	2.36	66	260	194			
	11:12			3.00	3.06	260	364	104			
	12:24			3.00	2.98	364	469	105			
	1:25			3.00	2.97	469	570	101			
	2:30	3.00		2.97	570	685	115				
BW-17A	3/22/2016	9:32	50-70	8.00	1.98	0	96	96	2397	2000.00	
		10:00		10.00	2.30	96	150	54			
		11:00		10.00	2.82	150	296	146			
		12:04		13.00	2.99	296	518	222			
		1:03		26.00	2.55	518	698	180			
	3/23/2016	3:27		18.00	2.76	698	969	271			
		8:57		19.00	1.99	969	1302	333			
		9:54		10.00	2.03	1302	1712	410			
		1:43		8.00	2.49	0	80	80			
		2:56		8.00	2.63	80	254	174			
	3/24/2016	3:19		8.00	2.58	254	285	31			
		9:46		10.00	2.29	0	119	119			
		10:30		8.00	2.53	119	234	115			
		11:12		10.00	2.90	234	331	97			
		11:48		10.00	2.90	331	400	69			



Enviroforensics - Klinke Cleaners
 PlumeStop Injection Summary Log
 Phase I - Injection Scope



Table 1

Injection Point	Date	Time	Injection Depth (feet)	Avg. Injection Pressure (psi)	Avg. Flow Rate (gpm)	Volume of PlumeStop Injected			Total gallons Per Location	Pounds of PlumeStop Injected Per Location	Comments						
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Time Period									
BW-17B	3/22/2016	9:32	77-97	5.00	2.60	0	114	114	2397	2000.00							
		10:00		3.00	2.60	114	184	70									
		11:00		9.00	2.27	184	336	152									
		12:04		10.00	2.31	336	463	127									
		1:03		5.00	2.56	463	674	211									
		2:02		5.00	2.61	674	891	217									
		3:27		4.00	2.25	891	1019	128									
	3/23/2016	8:57		6.00	2.97	1019	1322	303									
		9:54		8.00	2.41	1322	1521	199									
		10:58		8.00	2.45	1521	1712	191									
		1:43		8.00	2.94	0	80	80									
		2:56		8.00	2.91	80	285	205									
	3/24/2016	9:46		5.00	2.68	0	134	134									
		10:30		8.00	2.62	134	279	145									
		11:58		8.00	2.62	279	400	121									
BW-18A	3/23/2016	11:24	48.5-68.5	5.00	2.90	0	122	122	2336	1949.12							
		12:23		5.00	3.03	122	284	162									
		1:43		4.00	2.66	284	490	206									
		2:57		5.00	2.98	490	843	353									
		9:46		4.00	2.64	843	939	96									
	3/24/2016	10:30		5.00	2.91	939	1046	107									
		11:12		5.00	3.01	1046	1181	135									
		12:15		5.00	2.98	1181	1385	204									
		1:18		5.00	2.96	1385	1614	229									
		2:18		5.00	2.98	1614	1829	215									
		3:19		5.00	2.93	1829	2067	238									
		4:10		5.00	3.15	2067	2291	224									
		4:25		5.00	3.10	2291	2336	45									
		BW-18B		3/23/2016	11:23	77-97	145.00	1.26				0	40	40	61	50.89	High pressure, low flow. Redistributed into other wells taking it.
					12:23	145.00	1.18	40				61	21				
BW-19A	3/24/2016	9:56	49-69	155.00	0.00	0	0	0	0	0.00	Tried to initiate flow, but pressures to great. Minor surfacing near well almost immediately. High pressure, no registered flowrate. Redistributed into other wells taking it.						
BW-19B	3/24/2016	10:06	77-97	155.00	0.00	0	0	0	0	0.00	Tried to initiate flow, but pressures to great. High pressure, no registered flowrate. Redistributed into other wells taking it.						
BW-20A	3/23/2016	12:23	50-70	4.00	2.42	0	183	183	2397	2000.00							
		1:43		4.00	2.41	183	373	190									
		2:57		4.00	2.65	373	598	225									
		4:00		4.00	2.76	598	795	197									
		9:46		2.00	2.27	795	935	140									
	3/24/2016	10:30		3.00	3.12	935	1047	112									
		11:12		4.00	3.08	1047	1176	129									
		12:15		4.00	2.99	1176	1385	209									
		1:18		4.00	3.15	1385	1603	218									
		2:18		4.00	3.18	1603	1839	236									
		3:19		4.00	3.11	1839	2070	231									
		4:10		4.00	3.14	2070	2299	229									
		4:45		4.00	3.14	2299	2397	98									
BW-20B	3/23/2016	10:15	77-97	155.00	0.00	0	0	0	0.00	Tried to initiate flow, but pressures to great. High pressure, no registered flowrate. Redistributed into other wells taking it.							

Totals: 23,975 20,000



APPENDIX J

PlumeStop Phase 2 Application Summary Report



July 21, 2016

Brian Kappan
EnviroForensics
N16 W23390 Stone Ridge Drive, Suite G
Waukesha, WI 53188

RE: Application Summary Report for Phase II at the Klinke Cleaners Site in Madison, Wisconsin

RegenesiS Proposal No. DoD53372

Dear Brian:

RegenesiS Remediation Services (RRS) recently completed an *in-situ* injection application at the Klinke Cleaners Site located at 4518 Monona Drive in Madison, Wisconsin. The turn-key application services included the application of PlumeStop™ Liquid Activated Carbon (PlumeStop) at a permeable reactive barrier (PRB) placed adjacent to and along the eastern side of Monona Drive and to the east of the Klinke Cleaners building to halt further migration of chlorinated solvents. The target treatment zone was broken into an upper and lower unit utilizing injection wells installed by EnviroForensics. The injection application activities took place from July 6th through July 19th, 2016.

For this phase of the work (Phase II), the injection application consisted of applying PlumeStop at 11 nested injection well locations spanning over an approximately 260 foot (ft) length PRB along Monona Drive. In addition, 3 nested well locations were utilized on the eastern side of the Klinke Cleaners building. The injection treatment thickness (20 ft) was based on the screened interval of each injection well installed by EnviroForensics. Designed mix ratios (product to water) and standard mixing procedures were utilized in preparing the solutions prior to injection. An injection summary log showing volumes applied per injection well and other noteworthy items is provided in Table 1. A map showing the approximate injection well location is attached as Figure 1. Please reference RegenesiS Proposal No. DoD53372, dated February 25, 2016, for more details on the remediation design scope of work.

On-site Work Summary

General Site Activities

On Wednesday, July 6th, 2016, RegenesiS mobilized to the site, reviewed the site specific health and safety plan, and staged and setup the injection trailer. Once completing these tasks, the application began.

PRB Treatment

The application of PlumeStop began on the morning of Wednesday, July 6th, 2016 and was completed in ten (10) days. The approximately 260 linear ft PRB (11 nested wells) along Monona Drive and the 3 nested wells on the east side of the building made up a total of 14 nested injection well locations each set with two (2) individual wells for a total of 28 individual wells. The nested injection wells were set in pairs with one designated with an upper screened unit and the other designated with a lower screened unit each having a 20 ft injection screen thickness. Of the 28 individual wells, one (1) of them, EW-3B, did not receive any PlumeStop solution due to the inability to inject the remediation chemistry into the

surrounding subsurface area. This is likely due to the tighter consolidated geology identified within these units. During attempts to inject at this location, pressures exceeded 150 pounds per square inch (psi) with little to no flowrates. Based on this, it was decided to abandoned this location and redistribute the proposed volumes in the nearby well locations. In all, a total of 38,000 pounds (lbs) of PlumeStop or 45,552 gallons of PlumeStop solution (mixed with water) was applied.

The PlumeStop was prepared in 300 gallons batches consisting of 30 gallons of PlumeStop mixed with 270 gallons of water. The batches were continuously made throughout each day until the full volume was achieved for each individual injection well. For further details regarding the application volumes, quantities, and other noteworthy information for this section of the PRB, please refer to Table 1.

Conclusion

Overall, the full volume of PlumeStop was successfully applied at 27 individual injection wells. A total of 38,000 lbs of PlumeStop and 45,552 gallons of PlumeStop solution was applied over the ten (10) day application. In general, low injection pressures and application flowrates were maintained at each of the injection well locations that received the PlumeStop solution. Injection line pressures averaged below 10 pounds per square inch (psi), while flowrates were maintained at an average of 3.0 gallons per minute (gpm).

RRS appreciates the opportunity to work at this Site with EnviroForensics. If you need additional information regarding the application event or have any questions, please feel free to contact Will Mohan at 630-740-8815 or Steve Barnes at 574-349-0650.

REGENESIS



Will Mohan
Project Supervisor, Geologist for RRS

Attachment: Figure 1 – Injection Well Locations Map
Table 1 – Injection Log



BW-13

BW-12

BW-11

BW-10

BW-9

BW-8

BW-7

BW-6

BW-5

BW-4

BW-3

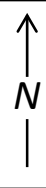
EW-1

EW-2

EW-3

Not to Scale

LEGEND



● Nested Injection Well



Klinke Cleaners- Injection Summary Log

PlumeStop Barrier - Phase II



Table 1

Injection Point	Date	Time	Avg. Injection Pressure (psi)	Avg. Flow Rate (gpm)	Volume of PlumeStop Injected			Total gallons Per Location	Pounds of PlumeStop Injected Per Location	Comments
					Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval			
BW- 3A	7/11/2016	9:55	0.0	3.1	0	53	53	1752	1461.54	
	7/11/2016	11:30	0.0	3.0	53	300	247			
	7/11/2016	13:45	0.0	2.9	300	710	410			
	7/12/2016	8:05	0.0	3.0	710	1290	580			
	7/12/2016	11:05	0.0	3.0	1290	1752	462			
BW-3B	7/11/2016	9:55	0.0	2.8	0	53	53	1752	1461.54	
	7/11/2016	11:30	0.0	3.1	53	310	257			
	7/11/2016	13:45	0.0	3.1	310	715	405			
	7/12/2016	8:05	0.0	3.0	715	1310	595			
	7/12/2016	11:05	0.0	3.0	1310	1752	442			
BW-4A	7/11/2016	11:30	0.0	3.2	0	455	455	1752	1461.54	
	7/11/2016	13:45	0.0	2.9	455	710	255			
	7/12/2016	8:05	0.0	2.9	710	1290	580			
	7/12/2016	11:05	0.0	2.9	1290	1752	462			
BW-4B	7/11/2016	9:55	0.0	2.8	0	53	53	1752	1461.54	
	7/11/2016	11:30	0.0	3.0	53	480	427			
	7/11/2016	13:45	0.0	3.2	480	710	230			
	7/12/2016	8:05	0.0	3.0	710	1290	580			
	7/12/2016	11:05	0.0	3.0	1290	1752	462			
BW-5A	7/7/2016	12:01	0.0	2.8	0	53	53	1752	1461.54	
	7/7/2016	14:00	0.0	3.1	53	300	247			
	7/8/2016	8:35	0.0	3.0	300	710	410			
	7/8/2016	12:00	0.0	3.0	710	1290	580			
	7/11/2016	9:55	0.0	3.0	1290	1752	462			
BW-5B	7/7/2016	12:01	0.0	2.9	0	53	53	1752	1461.54	
	7/7/2016	14:00	0.0	3.1	53	300	247			
	7/8/2016	8:35	0.0	3.0	300	710	410			
	7/8/2016	12:00	0.0	3.1	710	1290	580			
	7/11/2016	9:55	0.0	3.0	1290	1752	462			
BW-6A	7/12/2016	15:05	70.0	2.1	0	500	500	1752	1461.54	
		8:10	55.0	4.6	500	730	230			
	7/13/2016	10:30	56.0	4.8	730	990	260			
		12:02	55.0	5.0	990	1290	300			
		13:25	55.0	5.0	1290	1752	462			
BW-6B	7/12/2016	15:05	30.0	3.9	0	455	455	1752	1461.54	
		8:10	40.0	4.1	455	750	295			
	7/13/2016	10:30	42.0	4.8	750	980	230			
		12:02	30.0	5.0	980	1290	310			
		13:25	30.0	5.0	1290	1752	462			
BW-7A	7/6/2016	10:45	0.0	3.2	0	400	400	1752	1461.54	
		12:30	0.0	3.1	400	744	344			
		14:22	0.0	3.0	744	1050	306			
	7/7/2016	8:05	0.0	3.1	1050	1340	290			
		10:08	0.0	3.0	1340	1752	412			

Table 1

Injection Point	Date	Time	Avg. Injection Pressure (psi)	Avg. Flow Rate (gpm)	Volume of PlumeStop Injected			Total gallons Per Location	Pounds of PlumeStop Injected Per Location	Comments
					Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval			
BW-7B	7/6/2016	10:45	0.0	3.3	0	350	350	1752	1461.54	
		12:30	0.0	3.0	350	750	400			
		14:22	0.0	3.1	750	1050	300			
	7/7/2016	8:05	0.0	2.9	1050	1350	300			
		10:08	0.0	3.0	1350	1752	402			
BW-8A	7/6/2016	11:50	0.0	2.9	0	358	358	1752	1461.54	
		12:35	0.0	2.7	358	679	321			
		13:50	0.0	3.0	679	1049	370			
		14:55	0.0	3.0	1049	1455	406			
	7/7/2016	8:05	0.0	3.0	1455	1752	297			
BW-8B	7/6/2016	11:50	0.0	3.3	0	344	344	1752	1461.54	
		12:35	0.0	3.3	344	700	356			
		13:50	0.0	3.2	700	1041	341			
		14:55	0.0	3.0	1041	1450	409			
	7/7/2016	8:05	0.0	3.0	1450	1752	302			
BW-9A	7/7/2016	12:00	0.0	2.9	0	344	344	1752	1461.54	
		14:00	0.0	3.0	344	700	356			
	7/8/2016	8:35	0.0	3.1	700	1100	400			
		11:35	0.0	3.0	1100	1525	425			
	7/11/2016	9:55	0.0	3.0	1525	1752	227			
BW-9B	7/7/2016	12:00	0.0	3.0	0	328	328	1752	1461.54	
		14:00	0.0	3.1	328	700	372			
	7/8/2016	8:35	0.0	2.9	700	1050	350			
		11:30	0.0	3.0	1050	1525	475			
	7/11/2016	9:55	0.0	2.9	1525	1752	227			
BW-10A	7/13/2016	13:58	0.0	5.1	0	455	455	1752	1461.54	
		15:00	0.0	4.9	455	900	445			
	7/14/2016	8:55	0.0	2.9	900	1100	200			
		11:30	0.0	3.0	1100	1484	384			
		13:48	0.0	2.9	1484	1752	268			
BW-10B	7/13/2016	13:58	0.0	5.0	0	441	441	1752	1461.54	
		15:00	0.0	5.0	441	900	459			
	7/14/2016	8:55	0.0	3.0	900	1120	220			
		11:30	0.0	2.8	1120	1394	274			
		13:48	0.0	2.7	1394	1752	358			
BW-11A	7/14/2016	8:55	8.0	5.0	0	311	311	1752	1461.54	
		10:20	0.0	4.5	311	540	229			
		11:40	0.0	4.6	540	899	359			
		13:10	0.0	4.0	899	1370	471			
		14:30	0.0	4.0	1370	1752	382			
BW-11B	7/14/2016	8:55	0.0	5.1	0	319	319	1752	1461.54	
		10:20	10.0	4.3	319	581	262			
		11:40	10.0	4.2	581	920	339			
		13:10	10.0	4.4	920	1400	480			
		14:30	10.0	4.4	1400	1752	352			

Table 1

Injection Point	Date	Time	Avg. Injection Pressure (psi)	Avg. Flow Rate (gpm)	Volume of PlumeStop Injected			Total gallons Per Location	Pounds of PlumeStop Injected Per Location	Comments
					Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval			
BW-12A	7/15/2016	8:05	0.0	3.6	0	411	411	1752	1461.54	
		11:40	0.0	3.4	411	722	311			
		13:30	0.0	3.3	722	1050	328			
	7/18/2016	9:40	0.0	3.6	1050	1366	316			
		11:00	0.0	3.4	1366	1752	386			
BW-12B	7/15/2016	8:05	0.0	3.5	0	428	428	1752	1461.54	
		11:40	0.0	3.2	428	740	312			
		13:30	0.0	3.3	740	1050	310			
	7/18/2016	9:40	0.0	3.2	1050	1350	300			
		11:30	0.0	3.3	1350	1752	402			
BW-13A	7/15/2016	8:05	12.0	3.3	0	400	400	1752	1461.54	
		11:40	12.0	3.4	400	708	308			
		13:30	10.0	3.3	708	1050	342			
	7/18/2016	9:40	22.0	3.0	1050	1340	290			
		11:30	10.0	3.0	1340	1752	412			
BW-13B	7/15/2016	8:05	10.0	3.4	0	405	405	1752	1461.54	
		11:40	8.0	3.6	405	744	339			
		13:30	8.0	3.4	744	1050	306			
	7/18/2016	9:40	6.0	3.2	1050	1310	260			
		11:30	6.0	3.3	1310	1752	442			
EW-1A	7/18/2016	13:20	0.0	4.2	0	255	255	1168	974.36	
		14:35	4.0	4.1	255	478	223			
		15:55	4.0	4.0	478	800	322			
	7/19/2016	7:45	2.0	4.0	800	1010	210			
			2.0	4.0	1010	1168	158			
EW-1B	7/18/2016	13:20	0.0	4.2	0	250	250	1168	974.36	
		14:35	0.0	4.2	250	492	242			
		15:55	0.0	4.0	492	800	308			
	7/19/2016	7:45	0.0	4.0	800	1005	205			
			0.0	4.0	1005	1168	163			
EW-2A	7/18/2016	13:20	0.0	3.1	0	198	198	1558	1299.71	Receive extra to make up for EW-3B
		14:35	0.0	2.9	198	400	202			
	7/19/2016	7:40	0.0	3.3	400	745	345			
		9:30	0.0	3.3	745	995	250			
		11:55	0.0	3.4	995	1450	455			
EW-2B	7/18/2016	13:20	0.0	3.0	0	205	205	1557	1298.87	Receive extra to make up for EW-3B
		14:35	0.0	3.0	205	400	195			
		7:40	0.0	2.8	400	750	350			
	7/19/2016	9:30	10.0	5.4	750	1233	483			
		11:55	6.0	6.1	1233	1722	489			
EW-3A	7/19/2016	9:30	55.0	4.6	0	322	322	1557	1298.87	Receive extra to make up for EW-3B
		10:55	75.0	3.7	322	675	353			
		11:50	8.0	5.6	675	974	299			large decrease in pressure
		12:57	20.0	5.5	974	1190	216			
		13:49	24.0	4.5	1190	1500	310			
EW-3B	7/19/2016	9:30	155.0	0.0	0	0	0	0.00	No Flow did not inject	

Totals: 45552 38000



APPENDIX K

Groundwater Monitoring Lab Reports

October 19, 2016

Brian Kappen
Enviroforensics
N16 W23390 Stone Ridge Drive
Suite G
Waukesha, WI 53188

RE: Project: 6404.4D KLINKE'S CLEANERS
Pace Project No.: 40139799

Dear Brian Kappen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Kyle Vander Heiden, EnviroForensics



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40139799001	6404-MW-4	Water	10/04/16 15:20	10/10/16 07:35
40139799002	6404-MW-5	Water	10/06/16 17:00	10/10/16 07:35
40139799003	6404-MW-8	Water	10/06/16 13:05	10/10/16 07:35
40139799004	6404-MW-9	Water	10/04/16 13:15	10/10/16 07:35
40139799005	6404-EB-2	Water	10/06/16 15:10	10/10/16 07:35
40139799006	6404-DUP-1	Water	10/04/16 00:00	10/10/16 07:35

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SAMPLE ANALYTE COUNT

Project: 6404.4D KLINKE'S CLEANERS
Pace Project No.: 40139799

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40139799001	6404-MW-4	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139799002	6404-MW-5	EPA 8260	LAP	64	PASI-G
40139799003	6404-MW-8	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139799004	6404-MW-9	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139799005	6404-EB-2	EPA 8260	LAP	64	PASI-G
40139799006	6404-DUP-1	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G

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SUMMARY OF DETECTION

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40139799001	6404-MW-4					
EPA 8015B Modified	Methane	25.9	ug/L	2.8	10/12/16 08:27	
EPA 8260	cis-1,2-Dichloroethene	1070	ug/L	10.0	10/17/16 12:12	
EPA 8260	Tetrachloroethene	121	ug/L	10.0	10/17/16 12:12	
EPA 8260	Trichloroethene	296	ug/L	10.0	10/17/16 12:12	
EPA 8260	Vinyl chloride	2.9J	ug/L	10.0	10/17/16 12:12	
40139799002	6404-MW-5					
EPA 8260	Methylene Chloride	0.31J	ug/L	1.0	10/17/16 09:35	
EPA 8260	Tetrachloroethene	18.0	ug/L	1.0	10/17/16 09:35	
40139799003	6404-MW-8					
EPA 8260	Methylene Chloride	0.26J	ug/L	1.0	10/17/16 09:57	
EPA 8260	Tetrachloroethene	2.4	ug/L	1.0	10/17/16 09:57	
40139799004	6404-MW-9					
EPA 8260	Tetrachloroethene	468	ug/L	5.0	10/17/16 11:50	
EPA 8260	Trichloroethene	2.3J	ug/L	5.0	10/17/16 11:50	
40139799005	6404-EB-2					
EPA 8260	Bromodichloromethane	2.6	ug/L	1.0	10/17/16 08:05	
EPA 8260	Chloroform	8.6	ug/L	5.0	10/17/16 08:05	
40139799006	6404-DUP-1					
EPA 8015B Modified	Methane	29.8	ug/L	2.8	10/12/16 08:48	
EPA 8260	cis-1,2-Dichloroethene	1130	ug/L	10.0	10/17/16 12:35	
EPA 8260	Tetrachloroethene	120	ug/L	10.0	10/17/16 12:35	
EPA 8260	Trichloroethene	305	ug/L	10.0	10/17/16 12:35	
EPA 8260	Vinyl chloride	3.5J	ug/L	10.0	10/17/16 12:35	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: 6404-MW-4 Lab ID: 40139799001 Collected: 10/04/16 15:20 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		10/12/16 08:27	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		10/12/16 08:27	74-85-1	
Methane	25.9	ug/L	2.8	1.4	1		10/12/16 08:27	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		10/17/16 12:12	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		10/17/16 12:12	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		10/17/16 12:12	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		10/17/16 12:12	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		10/17/16 12:12	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		10/17/16 12:12	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		10/17/16 12:12	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		10/17/16 12:12	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		10/17/16 12:12	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		10/17/16 12:12	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		10/17/16 12:12	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		10/17/16 12:12	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		10/17/16 12:12	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		10/17/16 12:12	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		10/17/16 12:12	75-35-4	
cis-1,2-Dichloroethene	1070	ug/L	10.0	2.6	10		10/17/16 12:12	156-59-2	
trans-1,2-Dichloroethene	<2.6	ug/L	10.0	2.6	10		10/17/16 12:12	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		10/17/16 12:12	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		10/17/16 12:12	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		10/17/16 12:12	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		10/17/16 12:12	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		10/17/16 12:12	87-68-3	
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		10/17/16 12:12	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		10/17/16 12:12	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: 6404-MW-4 **Lab ID: 40139799001** Collected: 10/04/16 15:20 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		10/17/16 12:12	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		10/17/16 12:12	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		10/17/16 12:12	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		10/17/16 12:12	79-34-5	
Tetrachloroethene	121	ug/L	10.0	5.0	10		10/17/16 12:12	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		10/17/16 12:12	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		10/17/16 12:12	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		10/17/16 12:12	79-00-5	
Trichloroethene	296	ug/L	10.0	3.3	10		10/17/16 12:12	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		10/17/16 12:12	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	108-67-8	
Vinyl chloride	2.9J	ug/L	10.0	1.8	10		10/17/16 12:12	75-01-4	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		10/17/16 12:12	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		10		10/17/16 12:12	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		10		10/17/16 12:12	1868-53-7	
Toluene-d8 (S)	88	%	70-130		10		10/17/16 12:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: 6404-MW-5 **Lab ID: 40139799002** Collected: 10/06/16 17:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 09:35	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 09:35	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 09:35	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 09:35	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 09:35	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 09:35	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/17/16 09:35	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 09:35	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 09:35	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 09:35	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 09:35	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 09:35	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 09:35	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 09:35	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 09:35	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 09:35	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 09:35	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 09:35	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 09:35	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 09:35	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 09:35	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 09:35	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 09:35	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	99-87-6	
Methylene Chloride	0.31J	ug/L	1.0	0.23	1		10/17/16 09:35	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 09:35	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 09:35	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 09:35	630-20-6	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: 6404-MW-5 **Lab ID: 40139799002** Collected: 10/06/16 17:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 09:35	79-34-5	
Tetrachloroethene	18.0	ug/L	1.0	0.50	1		10/17/16 09:35	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 09:35	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 09:35	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 09:35	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/17/16 09:35	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 09:35	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/17/16 09:35	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 09:35	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		10/17/16 09:35	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/17/16 09:35	1868-53-7	
Toluene-d8 (S)	86	%	70-130		1		10/17/16 09:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: **6404-MW-8** Lab ID: **40139799003** Collected: 10/06/16 13:05 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		10/12/16 08:34	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		10/12/16 08:34	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		10/12/16 08:34	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 09:57	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 09:57	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 09:57	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 09:57	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 09:57	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 09:57	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/17/16 09:57	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 09:57	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 09:57	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 09:57	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 09:57	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 09:57	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 09:57	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 09:57	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 09:57	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 09:57	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 09:57	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 09:57	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 09:57	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 09:57	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 09:57	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 09:57	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 09:57	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	99-87-6	
Methylene Chloride	0.26J	ug/L	1.0	0.23	1		10/17/16 09:57	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: 6404-MW-8 **Lab ID: 40139799003** Collected: 10/06/16 13:05 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 09:57	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 09:57	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 09:57	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 09:57	79-34-5	
Tetrachloroethene	2.4	ug/L	1.0	0.50	1		10/17/16 09:57	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 09:57	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 09:57	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 09:57	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/17/16 09:57	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 09:57	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/17/16 09:57	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 09:57	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		10/17/16 09:57	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/17/16 09:57	1868-53-7	
Toluene-d8 (S)	81	%	70-130		1		10/17/16 09:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: 6404-MW-9 **Lab ID: 40139799004** Collected: 10/04/16 13:15 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		10/12/16 08:41	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		10/12/16 08:41	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		10/12/16 08:41	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		10/17/16 11:50	108-86-1	
Bromochloromethane	<1.7	ug/L	5.0	1.7	5		10/17/16 11:50	74-97-5	
Bromodichloromethane	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	75-27-4	
Bromoform	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	75-25-2	
Bromomethane	<12.2	ug/L	25.0	12.2	5		10/17/16 11:50	74-83-9	
n-Butylbenzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	104-51-8	
sec-Butylbenzene	<10.9	ug/L	25.0	10.9	5		10/17/16 11:50	135-98-8	
tert-Butylbenzene	<0.90	ug/L	5.0	0.90	5		10/17/16 11:50	98-06-6	
Carbon tetrachloride	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	56-23-5	
Chlorobenzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	108-90-7	
Chloroethane	<1.9	ug/L	5.0	1.9	5		10/17/16 11:50	75-00-3	
Chloroform	<12.5	ug/L	25.0	12.5	5		10/17/16 11:50	67-66-3	
Chloromethane	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	74-87-3	
2-Chlorotoluene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	95-49-8	
4-Chlorotoluene	<1.1	ug/L	5.0	1.1	5		10/17/16 11:50	106-43-4	
1,2-Dibromo-3-chloropropane	<10.8	ug/L	25.0	10.8	5		10/17/16 11:50	96-12-8	
Dibromochloromethane	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.89	ug/L	5.0	0.89	5		10/17/16 11:50	106-93-4	
Dibromomethane	<2.1	ug/L	5.0	2.1	5		10/17/16 11:50	74-95-3	
1,2-Dichlorobenzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	95-50-1	
1,3-Dichlorobenzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	541-73-1	
1,4-Dichlorobenzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	106-46-7	
Dichlorodifluoromethane	<1.1	ug/L	5.0	1.1	5		10/17/16 11:50	75-71-8	
1,1-Dichloroethane	<1.2	ug/L	5.0	1.2	5		10/17/16 11:50	75-34-3	
1,2-Dichloroethane	<0.84	ug/L	5.0	0.84	5		10/17/16 11:50	107-06-2	
1,1-Dichloroethene	<2.1	ug/L	5.0	2.1	5		10/17/16 11:50	75-35-4	
cis-1,2-Dichloroethene	<1.3	ug/L	5.0	1.3	5		10/17/16 11:50	156-59-2	
trans-1,2-Dichloroethene	<1.3	ug/L	5.0	1.3	5		10/17/16 11:50	156-60-5	
1,2-Dichloropropane	<1.2	ug/L	5.0	1.2	5		10/17/16 11:50	78-87-5	
1,3-Dichloropropane	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	142-28-9	
2,2-Dichloropropane	<2.4	ug/L	5.0	2.4	5		10/17/16 11:50	594-20-7	
1,1-Dichloropropene	<2.2	ug/L	5.0	2.2	5		10/17/16 11:50	563-58-6	
cis-1,3-Dichloropropene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/L	5.0	1.1	5		10/17/16 11:50	10061-02-6	
Diisopropyl ether	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	108-20-3	
Ethylbenzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	100-41-4	
Hexachloro-1,3-butadiene	<10.5	ug/L	25.0	10.5	5		10/17/16 11:50	87-68-3	
Isopropylbenzene (Cumene)	<0.72	ug/L	5.0	0.72	5		10/17/16 11:50	98-82-8	
p-Isopropyltoluene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	99-87-6	
Methylene Chloride	<1.2	ug/L	5.0	1.2	5		10/17/16 11:50	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: 6404-MW-9 **Lab ID: 40139799004** Collected: 10/04/16 13:15 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<0.87	ug/L	5.0	0.87	5		10/17/16 11:50	1634-04-4	
Naphthalene	<12.5	ug/L	25.0	12.5	5		10/17/16 11:50	91-20-3	
n-Propylbenzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	103-65-1	
Styrene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.90	ug/L	5.0	0.90	5		10/17/16 11:50	630-20-6	
1,1,2,2-Tetrachloroethane	<1.2	ug/L	5.0	1.2	5		10/17/16 11:50	79-34-5	
Tetrachloroethene	468	ug/L	5.0	2.5	5		10/17/16 11:50	127-18-4	
Toluene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	108-88-3	
1,2,3-Trichlorobenzene	<10.7	ug/L	25.0	10.7	5		10/17/16 11:50	87-61-6	
1,2,4-Trichlorobenzene	<11.0	ug/L	25.0	11.0	5		10/17/16 11:50	120-82-1	
1,1,1-Trichloroethane	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	71-55-6	
1,1,2-Trichloroethane	<0.99	ug/L	5.0	0.99	5		10/17/16 11:50	79-00-5	
Trichloroethene	2.3J	ug/L	5.0	1.7	5		10/17/16 11:50	79-01-6	
Trichlorofluoromethane	<0.92	ug/L	5.0	0.92	5		10/17/16 11:50	75-69-4	
1,2,3-Trichloropropane	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	96-18-4	
1,2,4-Trimethylbenzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	95-63-6	
1,3,5-Trimethylbenzene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	108-67-8	
Vinyl chloride	<0.88	ug/L	5.0	0.88	5		10/17/16 11:50	75-01-4	
m&p-Xylene	<5.0	ug/L	10.0	5.0	5		10/17/16 11:50	179601-23-1	
o-Xylene	<2.5	ug/L	5.0	2.5	5		10/17/16 11:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		5		10/17/16 11:50	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		5		10/17/16 11:50	1868-53-7	
Toluene-d8 (S)	84	%	70-130		5		10/17/16 11:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: 6404-EB-2 Lab ID: 40139799005 Collected: 10/06/16 15:10 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 08:05	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 08:05	74-97-5	
Bromodichloromethane	2.6	ug/L	1.0	0.50	1		10/17/16 08:05	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 08:05	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 08:05	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 08:05	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 08:05	75-00-3	
Chloroform	8.6	ug/L	5.0	2.5	1		10/17/16 08:05	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 08:05	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 08:05	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 08:05	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 08:05	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 08:05	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 08:05	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 08:05	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 08:05	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 08:05	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 08:05	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 08:05	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 08:05	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 08:05	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 08:05	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 08:05	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 08:05	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/17/16 08:05	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 08:05	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 08:05	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 08:05	630-20-6	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS
Pace Project No.: 40139799

Sample: 6404-EB-2 **Lab ID: 40139799005** Collected: 10/06/16 15:10 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 08:05	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 08:05	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 08:05	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 08:05	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/17/16 08:05	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 08:05	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/17/16 08:05	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 08:05	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		10/17/16 08:05	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		10/17/16 08:05	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		10/17/16 08:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Sample: 6404-DUP-1 Lab ID: 40139799006 Collected: 10/04/16 00:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		10/12/16 08:48	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		10/12/16 08:48	74-85-1	
Methane	29.8	ug/L	2.8	1.4	1		10/12/16 08:48	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		10/17/16 12:35	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		10/17/16 12:35	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		10/17/16 12:35	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		10/17/16 12:35	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		10/17/16 12:35	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		10/17/16 12:35	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		10/17/16 12:35	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		10/17/16 12:35	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		10/17/16 12:35	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		10/17/16 12:35	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		10/17/16 12:35	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		10/17/16 12:35	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		10/17/16 12:35	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		10/17/16 12:35	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		10/17/16 12:35	75-35-4	
cis-1,2-Dichloroethene	1130	ug/L	10.0	2.6	10		10/17/16 12:35	156-59-2	
trans-1,2-Dichloroethene	<2.6	ug/L	10.0	2.6	10		10/17/16 12:35	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		10/17/16 12:35	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		10/17/16 12:35	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		10/17/16 12:35	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		10/17/16 12:35	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		10/17/16 12:35	87-68-3	
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		10/17/16 12:35	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		10/17/16 12:35	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.4D KLINKE'S CLEANERS
Pace Project No.: 40139799

Sample: 6404-DUP-1 **Lab ID: 40139799006** Collected: 10/04/16 00:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		10/17/16 12:35	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		10/17/16 12:35	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		10/17/16 12:35	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		10/17/16 12:35	79-34-5	
Tetrachloroethene	120	ug/L	10.0	5.0	10		10/17/16 12:35	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		10/17/16 12:35	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		10/17/16 12:35	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		10/17/16 12:35	79-00-5	
Trichloroethene	305	ug/L	10.0	3.3	10		10/17/16 12:35	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		10/17/16 12:35	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	108-67-8	
Vinyl chloride	3.5J	ug/L	10.0	1.8	10		10/17/16 12:35	75-01-4	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		10/17/16 12:35	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		10		10/17/16 12:35	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		10		10/17/16 12:35	1868-53-7	
Toluene-d8 (S)	87	%	70-130		10		10/17/16 12:35	2037-26-5	

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QUALITY CONTROL DATA

Project: 6404.4D KLINKE'S CLEANERS
Pace Project No.: 40139799

QC Batch: 237694 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40139799001, 40139799003, 40139799004, 40139799006

METHOD BLANK: 1408551 Matrix: Water
Associated Lab Samples: 40139799001, 40139799003, 40139799004, 40139799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.58	5.6	10/12/16 07:05	
Ethene	ug/L	<0.52	5.0	10/12/16 07:05	
Methane	ug/L	<1.4	2.8	10/12/16 07:05	

LABORATORY CONTROL SAMPLE & LCSD: 1408552

Parameter	Units	1408552		1408553		% Rec	LCSD	% Rec	Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCSD Result							
Ethane	ug/L	53.6	52.5	52.5	98	98	76-120	0	20			
Ethene	ug/L	50	48.6	48.2	97	96	75-120	1	20			
Methane	ug/L	28.6	27.1	27.2	95	95	73-122	0	20			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409195

Parameter	Units	1409195		1409197		MS	MSD	MS	MSD	% Rec	MSD	% Rec	Limits	RPD	Max RPD	Qual
		40139798005	MS Spike Conc.	MSD Spike Conc.	MS Result											
Ethane	ug/L	<0.58	53.6	53.6	51.8	49.7	97	93	73-120	4	20					
Ethene	ug/L	<0.52	50	50	48.0	46.1	96	92	72-120	4	20					
Methane	ug/L	<1.4	28.6	28.6	26.4	25.2	92	88	15-187	5	20					

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 6404.4D KLINKE'S CLEANERS
Pace Project No.: 40139799

QC Batch: 237950 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40139799001, 40139799002, 40139799003, 40139799004, 40139799005, 40139799006

METHOD BLANK: 1409717 Matrix: Water
Associated Lab Samples: 40139799001, 40139799002, 40139799003, 40139799004, 40139799005, 40139799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	10/14/16 06:59	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/14/16 06:59	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	10/14/16 06:59	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/14/16 06:59	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/14/16 06:59	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/14/16 06:59	
1,1-Dichloropropene	ug/L	<0.44	1.0	10/14/16 06:59	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	10/14/16 06:59	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	10/14/16 06:59	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	10/14/16 06:59	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/14/16 06:59	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/14/16 06:59	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/14/16 06:59	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/14/16 06:59	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/14/16 06:59	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/14/16 06:59	
1,3-Dichloropropane	ug/L	<0.50	1.0	10/14/16 06:59	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/14/16 06:59	
2,2-Dichloropropane	ug/L	<0.48	1.0	10/14/16 06:59	
2-Chlorotoluene	ug/L	<0.50	1.0	10/14/16 06:59	
4-Chlorotoluene	ug/L	<0.21	1.0	10/14/16 06:59	
Benzene	ug/L	<0.50	1.0	10/14/16 06:59	
Bromobenzene	ug/L	<0.23	1.0	10/14/16 06:59	
Bromochloromethane	ug/L	<0.34	1.0	10/14/16 06:59	
Bromodichloromethane	ug/L	<0.50	1.0	10/14/16 06:59	
Bromoform	ug/L	<0.50	1.0	10/14/16 06:59	
Bromomethane	ug/L	<2.4	5.0	10/14/16 06:59	
Carbon tetrachloride	ug/L	<0.50	1.0	10/14/16 06:59	
Chlorobenzene	ug/L	<0.50	1.0	10/14/16 06:59	
Chloroethane	ug/L	<0.37	1.0	10/14/16 06:59	
Chloroform	ug/L	<2.5	5.0	10/14/16 06:59	
Chloromethane	ug/L	<0.50	1.0	10/14/16 06:59	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/14/16 06:59	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/14/16 06:59	
Dibromochloromethane	ug/L	<0.50	1.0	10/14/16 06:59	
Dibromomethane	ug/L	<0.43	1.0	10/14/16 06:59	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/14/16 06:59	
Diisopropyl ether	ug/L	<0.50	1.0	10/14/16 06:59	
Ethylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

METHOD BLANK: 1409717

Matrix: Water

Associated Lab Samples: 40139799001, 40139799002, 40139799003, 40139799004, 40139799005, 40139799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	10/14/16 06:59	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	10/14/16 06:59	
m&p-Xylene	ug/L	<1.0	2.0	10/14/16 06:59	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/14/16 06:59	
Methylene Chloride	ug/L	<0.23	1.0	10/14/16 06:59	
n-Butylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	
n-Propylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	
Naphthalene	ug/L	<2.5	5.0	10/14/16 06:59	
o-Xylene	ug/L	<0.50	1.0	10/14/16 06:59	
p-Isopropyltoluene	ug/L	<0.50	1.0	10/14/16 06:59	
sec-Butylbenzene	ug/L	<2.2	5.0	10/14/16 06:59	
Styrene	ug/L	<0.50	1.0	10/14/16 06:59	
tert-Butylbenzene	ug/L	<0.18	1.0	10/14/16 06:59	
Tetrachloroethene	ug/L	<0.50	1.0	10/14/16 06:59	
Toluene	ug/L	<0.50	1.0	10/14/16 06:59	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/14/16 06:59	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/14/16 06:59	
Trichloroethene	ug/L	<0.33	1.0	10/14/16 06:59	
Trichlorofluoromethane	ug/L	<0.18	1.0	10/14/16 06:59	
Vinyl chloride	ug/L	<0.18	1.0	10/14/16 06:59	
4-Bromofluorobenzene (S)	%	86	70-130	10/14/16 06:59	
Dibromofluoromethane (S)	%	95	70-130	10/14/16 06:59	
Toluene-d8 (S)	%	90	70-130	10/14/16 06:59	

LABORATORY CONTROL SAMPLE: 1409718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.2	96	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	67-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	49.2	98	70-133	
1,1-Dichloroethene	ug/L	50	46.8	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.8	88	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	52.0	104	70-130	
1,2-Dichloropropane	ug/L	50	52.8	106	70-130	
1,3-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	
Benzene	ug/L	50	50.5	101	60-135	
Bromodichloromethane	ug/L	50	51.4	103	70-130	
Bromoform	ug/L	50	52.9	106	70-130	
Bromomethane	ug/L	50	48.3	97	33-130	

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QUALITY CONTROL DATA

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

LABORATORY CONTROL SAMPLE: 1409718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	50.2	100	70-138	
Chlorobenzene	ug/L	50	50.4	101	70-130	
Chloroethane	ug/L	50	53.3	107	51-130	
Chloroform	ug/L	50	50.3	101	70-130	
Chloromethane	ug/L	50	40.2	80	25-132	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	69-130	
cis-1,3-Dichloropropene	ug/L	50	48.8	98	70-130	
Dibromochloromethane	ug/L	50	49.5	99	70-130	
Dichlorodifluoromethane	ug/L	50	32.3	65	23-130	
Ethylbenzene	ug/L	50	49.2	98	70-136	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	70-140	
m&p-Xylene	ug/L	100	98.3	98	70-138	
Methyl-tert-butyl ether	ug/L	50	50.6	101	66-138	
Methylene Chloride	ug/L	50	50.7	101	70-130	
o-Xylene	ug/L	50	48.4	97	70-134	
Styrene	ug/L	50	50.1	100	70-133	
Tetrachloroethene	ug/L	50	50.2	100	70-138	
Toluene	ug/L	50	50.5	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.3	95	70-131	
trans-1,3-Dichloropropene	ug/L	50	45.3	91	69-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	51.0	102	50-150	
Vinyl chloride	ug/L	50	51.2	102	49-130	
4-Bromofluorobenzene (S)	%			88	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1410644 1410645

Parameter	Units	40139779001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1-Trichloroethane	ug/L	<0.50	50	50	45.9	47.7	92	95	70-134	4	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	55.2	53.5	110	107	67-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.3	51.5	107	103	70-130	3	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	50.2	50.9	100	102	70-134	1	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	43.4	43.8	87	88	68-136	1	20		
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	44.7	45.9	89	92	62-139	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	51.9	46.3	104	93	50-150	11	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.7	50.7	105	101	70-130	4	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	47.9	48.2	96	96	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	52.4	52.1	105	104	70-130	1	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	51.9	52.9	104	106	70-130	2	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	46.4	46.9	93	94	70-131	1	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	46.6	47.4	93	95	70-130	2	20		

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QUALITY CONTROL DATA

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Parameter	Units	40139779001		1410644		1410645		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Benzene	ug/L	<0.50	50	50	50.0	49.7	100	99	57-138	1	20		
Bromodichloromethane	ug/L	<0.50	50	50	49.8	49.0	100	98	70-130	1	20		
Bromoform	ug/L	<0.50	50	50	53.7	49.2	107	98	70-130	9	20		
Bromomethane	ug/L	<2.4	50	50	47.1	48.3	94	97	33-130	3	27		
Carbon tetrachloride	ug/L	<0.50	50	50	49.0	48.7	98	97	70-138	1	20		
Chlorobenzene	ug/L	<0.50	50	50	49.1	50.3	98	101	70-130	2	20		
Chloroethane	ug/L	<0.37	50	50	49.8	48.6	100	97	51-130	2	20		
Chloroform	ug/L	<2.5	50	50	49.2	49.8	98	100	70-130	1	20		
Chloromethane	ug/L	<0.50	50	50	41.9	39.6	84	79	25-132	6	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.6	47.3	93	95	61-140	2	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.2	42.4	94	85	70-130	11	20		
Dibromochloromethane	ug/L	<0.50	50	50	48.5	46.3	97	93	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	30.3	31.6	61	63	23-130	4	20		
Ethylbenzene	ug/L	<0.50	50	50	44.7	43.8	89	88	70-138	2	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	45.2	45.9	90	92	70-152	1	20		
m&p-Xylene	ug/L	<1.0	100	100	80.0	73.6	80	74	70-140	8	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	52.2	50.8	104	102	66-139	3	20		
Methylene Chloride	ug/L	<0.23	50	50	50.4	50.2	101	100	70-130	0	20		
o-Xylene	ug/L	<0.50	50	50	41.0	37.4	82	75	70-134	9	20		
Styrene	ug/L	<0.50	50	50	26.2	19.7	52	39	70-138	28	20	M1,R1	
Tetrachloroethene	ug/L	<0.50	50	50	48.8	50.9	98	102	70-148	4	20		
Toluene	ug/L	<0.50	50	50	47.9	46.9	96	94	70-130	2	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	46.8	46.3	94	93	70-133	1	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	45.4	40.8	91	82	69-130	11	20		
Trichloroethene	ug/L	<0.33	50	50	50.8	50.1	102	100	70-131	1	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	49.5	51.3	99	103	50-150	4	20		
Vinyl chloride	ug/L	<0.18	50	50	47.9	49.0	96	98	49-133	2	20		
4-Bromofluorobenzene (S)	%						89	89	70-130				
Dibromofluoromethane (S)	%						95	96	70-130				
Toluene-d8 (S)	%						91	89	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6404.4D KLINKE'S CLEANERS

Pace Project No.: 40139799

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40139799001	6404-MW-4	EPA 8015B Modified	237694		
40139799003	6404-MW-8	EPA 8015B Modified	237694		
40139799004	6404-MW-9	EPA 8015B Modified	237694		
40139799006	6404-DUP-1	EPA 8015B Modified	237694		
40139799001	6404-MW-4	EPA 8260	237950		
40139799002	6404-MW-5	EPA 8260	237950		
40139799003	6404-MW-8	EPA 8260	237950		
40139799004	6404-MW-9	EPA 8260	237950		
40139799005	6404-EB-2	EPA 8260	237950		
40139799006	6404-DUP-1	EPA 8260	237950		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Enviro Forensics
Courier: Fed Ex UPS Client Pace Other: C3 Logistics
Tracking #: _____

Project #: **WO# : 40139799**



Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
Custody Seal on Samples Present: yes no Seals intact: yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used: NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: _____ /Corr: ROI Biological Tissue is Frozen: yes no
Temp Blank Present: yes no

Person examining contents:
Date: 10/10/16
Initials: TL

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>004 collect time 1350</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>10/10/16</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>VOA</u> , <u>golf</u> form, TOC, TOX, TOH, O&G, <u>WIDROW</u> , Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lab Std #/ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: Client put labels on caps of all samples 10-10-16

Project Manager Review: AMH for DM Date: 10/10/16

October 19, 2016

Brian Kappen
Enviroforensics
N16 W23390 Stone Ridge Drive
Suite G
Waukesha, WI 53188

RE: Project: 6404.5E KLINKE CLEANERS
Pace Project No.: 40139798

Dear Brian Kappen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Kyle Vander Heiden, EnviroForensics



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40139798001	6404-MW-1	Water	10/05/16 15:05	10/10/16 07:35
40139798002	6404-MW-2	Water	10/04/16 11:30	10/10/16 07:35
40139798003	6404-MW-3	Water	10/05/16 16:55	10/10/16 07:35
40139798004	6404-MW-7	Water	10/05/16 11:18	10/10/16 07:35
40139798005	6404-CMT-3-2	Water	10/04/16 17:00	10/10/16 07:35
40139798006	6404-CMT-3-3	Water	10/04/16 18:42	10/10/16 07:35
40139798007	6404-CMT-11-2	Water	10/05/16 12:40	10/10/16 07:35
40139798008	6404-CMT-11-3	Water	10/05/16 13:23	10/10/16 07:35
40139798009	6404-CMT-12-3	Water	10/06/16 16:05	10/10/16 07:35
40139798010	6404-DUP-2	Water	10/06/16 00:00	10/10/16 07:35
40139798011	6404-EB-1	Water	10/04/16 12:42	10/10/16 07:35
40139798012	6404-TB	Water	10/04/16 00:00	10/10/16 07:35

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SAMPLE ANALYTE COUNT

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40139798001	6404-MW-1	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139798002	6404-MW-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139798003	6404-MW-3	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139798004	6404-MW-7	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139798005	6404-CMT-3-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139798006	6404-CMT-3-3	EPA 8260	LAP	64	PASI-G
40139798007	6404-CMT-11-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139798008	6404-CMT-11-3	EPA 8260	LAP	64	PASI-G
40139798009	6404-CMT-12-3	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139798010	6404-DUP-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
40139798011	6404-EB-1	EPA 8260	LAP	64	PASI-G
40139798012	6404-TB	EPA 8260	LAP	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40139798001	6404-MW-1					
EPA 8015B Modified	Ethane	1.8J	ug/L	5.6	10/11/16 10:51	
EPA 8015B Modified	Ethene	1.6J	ug/L	5.0	10/11/16 10:51	
EPA 8260	cis-1,2-Dichloroethene	4.6J	ug/L	10.0	10/14/16 09:38	
EPA 8260	Tetrachloroethene	169	ug/L	10.0	10/14/16 09:38	
EPA 8260	Trichloroethene	7.9J	ug/L	10.0	10/14/16 09:38	
40139798002	6404-MW-2					
EPA 8260	cis-1,2-Dichloroethene	3.5J	ug/L	10.0	10/17/16 12:57	
EPA 8260	Tetrachloroethene	1000	ug/L	10.0	10/17/16 12:57	
EPA 8260	Trichloroethene	8.5J	ug/L	10.0	10/17/16 12:57	
40139798003	6404-MW-3					
EPA 8015B Modified	Methane	256	ug/L	2.8	10/11/16 11:05	
EPA 8260	1,1-Dichloroethene	0.42J	ug/L	1.0	10/14/16 11:07	
EPA 8260	cis-1,2-Dichloroethene	196	ug/L	1.0	10/14/16 11:07	
EPA 8260	trans-1,2-Dichloroethene	2.4	ug/L	1.0	10/14/16 11:07	
EPA 8260	Methylene Chloride	0.66J	ug/L	1.0	10/14/16 11:07	
EPA 8260	Tetrachloroethene	83.9	ug/L	1.0	10/14/16 11:07	
EPA 8260	Trichloroethene	9.3	ug/L	1.0	10/14/16 11:07	
EPA 8260	Vinyl chloride	1.1	ug/L	1.0	10/14/16 11:07	
40139798004	6404-MW-7					
EPA 8015B Modified	Ethane	1.2J	ug/L	5.6	10/12/16 07:53	
EPA 8015B Modified	Ethene	1.1J	ug/L	5.0	10/12/16 07:53	
EPA 8260	cis-1,2-Dichloroethene	3.3J	ug/L	10.0	10/14/16 10:00	
EPA 8260	Tetrachloroethene	191	ug/L	10.0	10/14/16 10:00	
40139798005	6404-CMT-3-2					
EPA 8260	Tetrachloroethene	43.5	ug/L	1.0	10/17/16 09:12	
40139798006	6404-CMT-3-3					
EPA 8260	cis-1,2-Dichloroethene	18.4	ug/L	1.0	10/17/16 13:20	
EPA 8260	Methylene Chloride	0.41J	ug/L	1.0	10/17/16 13:20	
EPA 8260	Tetrachloroethene	78.8	ug/L	1.0	10/17/16 13:20	
EPA 8260	Trichloroethene	29.8	ug/L	1.0	10/17/16 13:20	
EPA 8260	Vinyl chloride	0.18J	ug/L	1.0	10/17/16 13:20	
40139798007	6404-CMT-11-2					
EPA 8260	cis-1,2-Dichloroethene	1.4	ug/L	1.0	10/17/16 11:05	
EPA 8260	Tetrachloroethene	286	ug/L	1.0	10/17/16 11:05	
EPA 8260	Trichloroethene	0.44J	ug/L	1.0	10/17/16 11:05	
40139798008	6404-CMT-11-3					
EPA 8260	Tetrachloroethene	56.8	ug/L	1.0	10/17/16 10:20	
40139798009	6404-CMT-12-3					
EPA 8260	cis-1,2-Dichloroethene	1.3	ug/L	1.0	10/17/16 10:42	
EPA 8260	Tetrachloroethene	32.6	ug/L	1.0	10/17/16 10:42	
EPA 8260	Trichloroethene	15.7	ug/L	1.0	10/17/16 10:42	

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SUMMARY OF DETECTION

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40139798010	6404-DUP-2					
EPA 8015B Modified	Ethane	1.1J	ug/L	5.6	10/12/16 08:20	
EPA 8015B Modified	Ethene	1.1J	ug/L	5.0	10/12/16 08:20	
EPA 8260	cis-1,2-Dichloroethene	4.3J	ug/L	10.0	10/14/16 10:23	
EPA 8260	Tetrachloroethene	207	ug/L	10.0	10/14/16 10:23	
EPA 8260	Trichloroethene	9.1J	ug/L	10.0	10/14/16 10:23	
40139798011	6404-EB-1					
EPA 8260	o-Xylene	0.60J	ug/L	1.0	10/17/16 08:27	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-MW-1 **Lab ID: 40139798001** Collected: 10/05/16 15:05 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	1.8J	ug/L	5.6	0.58	1		10/11/16 10:51	74-84-0	
Ethene	1.6J	ug/L	5.0	0.52	1		10/11/16 10:51	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		10/11/16 10:51	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		10/14/16 09:38	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		10/14/16 09:38	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		10/14/16 09:38	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		10/14/16 09:38	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		10/14/16 09:38	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		10/14/16 09:38	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		10/14/16 09:38	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		10/14/16 09:38	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		10/14/16 09:38	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		10/14/16 09:38	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		10/14/16 09:38	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		10/14/16 09:38	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		10/14/16 09:38	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		10/14/16 09:38	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		10/14/16 09:38	75-35-4	
cis-1,2-Dichloroethene	4.6J	ug/L	10.0	2.6	10		10/14/16 09:38	156-59-2	
trans-1,2-Dichloroethene	<2.6	ug/L	10.0	2.6	10		10/14/16 09:38	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		10/14/16 09:38	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		10/14/16 09:38	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		10/14/16 09:38	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		10/14/16 09:38	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		10/14/16 09:38	87-68-3	
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		10/14/16 09:38	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		10/14/16 09:38	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-MW-1 **Lab ID: 40139798001** Collected: 10/05/16 15:05 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		10/14/16 09:38	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		10/14/16 09:38	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		10/14/16 09:38	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		10/14/16 09:38	79-34-5	
Tetrachloroethene	169	ug/L	10.0	5.0	10		10/14/16 09:38	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		10/14/16 09:38	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		10/14/16 09:38	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		10/14/16 09:38	79-00-5	
Trichloroethene	7.9J	ug/L	10.0	3.3	10		10/14/16 09:38	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		10/14/16 09:38	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	108-67-8	
Vinyl chloride	<1.8	ug/L	10.0	1.8	10		10/14/16 09:38	75-01-4	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		10/14/16 09:38	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		10/14/16 09:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		10		10/14/16 09:38	460-00-4	D3
Dibromofluoromethane (S)	96	%	70-130		10		10/14/16 09:38	1868-53-7	
Toluene-d8 (S)	88	%	70-130		10		10/14/16 09:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-MW-2 **Lab ID: 40139798002** Collected: 10/04/16 11:30 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		10/11/16 10:58	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		10/11/16 10:58	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		10/11/16 10:58	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		10/17/16 12:57	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		10/17/16 12:57	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		10/17/16 12:57	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		10/17/16 12:57	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		10/17/16 12:57	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		10/17/16 12:57	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		10/17/16 12:57	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		10/17/16 12:57	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		10/17/16 12:57	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		10/17/16 12:57	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		10/17/16 12:57	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		10/17/16 12:57	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		10/17/16 12:57	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		10/17/16 12:57	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		10/17/16 12:57	75-35-4	
cis-1,2-Dichloroethene	3.5J	ug/L	10.0	2.6	10		10/17/16 12:57	156-59-2	
trans-1,2-Dichloroethene	<2.6	ug/L	10.0	2.6	10		10/17/16 12:57	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		10/17/16 12:57	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		10/17/16 12:57	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		10/17/16 12:57	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		10/17/16 12:57	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		10/17/16 12:57	87-68-3	
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		10/17/16 12:57	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		10/17/16 12:57	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-MW-2 **Lab ID: 40139798002** Collected: 10/04/16 11:30 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		10/17/16 12:57	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		10/17/16 12:57	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		10/17/16 12:57	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		10/17/16 12:57	79-34-5	
Tetrachloroethene	1000	ug/L	10.0	5.0	10		10/17/16 12:57	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		10/17/16 12:57	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		10/17/16 12:57	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		10/17/16 12:57	79-00-5	
Trichloroethene	8.5J	ug/L	10.0	3.3	10		10/17/16 12:57	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		10/17/16 12:57	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	108-67-8	
Vinyl chloride	<1.8	ug/L	10.0	1.8	10		10/17/16 12:57	75-01-4	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		10/17/16 12:57	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		10/17/16 12:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		10		10/17/16 12:57	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		10		10/17/16 12:57	1868-53-7	
Toluene-d8 (S)	87	%	70-130		10		10/17/16 12:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-MW-3 **Lab ID: 40139798003** Collected: 10/05/16 16:55 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		10/11/16 11:05	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		10/11/16 11:05	74-85-1	
Methane	256	ug/L	2.8	1.4	1		10/11/16 11:05	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/14/16 11:07	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/14/16 11:07	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/14/16 11:07	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/14/16 11:07	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/14/16 11:07	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/14/16 11:07	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/14/16 11:07	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/14/16 11:07	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/14/16 11:07	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/14/16 11:07	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/14/16 11:07	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/14/16 11:07	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/14/16 11:07	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/14/16 11:07	107-06-2	
1,1-Dichloroethene	0.42J	ug/L	1.0	0.41	1		10/14/16 11:07	75-35-4	
cis-1,2-Dichloroethene	196	ug/L	1.0	0.26	1		10/14/16 11:07	156-59-2	
trans-1,2-Dichloroethene	2.4	ug/L	1.0	0.26	1		10/14/16 11:07	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/14/16 11:07	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/14/16 11:07	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/14/16 11:07	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/14/16 11:07	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/14/16 11:07	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/14/16 11:07	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	99-87-6	
Methylene Chloride	0.66J	ug/L	1.0	0.23	1		10/14/16 11:07	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-MW-3 **Lab ID: 40139798003** Collected: 10/05/16 16:55 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/14/16 11:07	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/14/16 11:07	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/14/16 11:07	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/14/16 11:07	79-34-5	
Tetrachloroethene	83.9	ug/L	1.0	0.50	1		10/14/16 11:07	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/14/16 11:07	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/14/16 11:07	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/14/16 11:07	79-00-5	
Trichloroethene	9.3	ug/L	1.0	0.33	1		10/14/16 11:07	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/14/16 11:07	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	108-67-8	
Vinyl chloride	1.1	ug/L	1.0	0.18	1		10/14/16 11:07	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/14/16 11:07	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/14/16 11:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/14/16 11:07	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/14/16 11:07	1868-53-7	
Toluene-d8 (S)	87	%	70-130		1		10/14/16 11:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-MW-7 Lab ID: 40139798004 Collected: 10/05/16 11:18 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	1.2J	ug/L	5.6	0.58	1		10/12/16 07:53	74-84-0	
Ethene	1.1J	ug/L	5.0	0.52	1		10/12/16 07:53	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		10/12/16 07:53	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		10/14/16 10:00	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		10/14/16 10:00	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		10/14/16 10:00	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		10/14/16 10:00	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		10/14/16 10:00	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		10/14/16 10:00	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		10/14/16 10:00	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		10/14/16 10:00	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		10/14/16 10:00	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		10/14/16 10:00	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		10/14/16 10:00	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		10/14/16 10:00	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		10/14/16 10:00	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		10/14/16 10:00	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		10/14/16 10:00	75-35-4	
cis-1,2-Dichloroethene	3.3J	ug/L	10.0	2.6	10		10/14/16 10:00	156-59-2	
trans-1,2-Dichloroethene	<2.6	ug/L	10.0	2.6	10		10/14/16 10:00	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		10/14/16 10:00	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		10/14/16 10:00	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		10/14/16 10:00	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		10/14/16 10:00	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		10/14/16 10:00	87-68-3	
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		10/14/16 10:00	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		10/14/16 10:00	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-MW-7 **Lab ID: 40139798004** Collected: 10/05/16 11:18 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		10/14/16 10:00	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		10/14/16 10:00	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		10/14/16 10:00	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		10/14/16 10:00	79-34-5	
Tetrachloroethene	191	ug/L	10.0	5.0	10		10/14/16 10:00	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		10/14/16 10:00	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		10/14/16 10:00	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		10/14/16 10:00	79-00-5	
Trichloroethene	<3.3	ug/L	10.0	3.3	10		10/14/16 10:00	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		10/14/16 10:00	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	108-67-8	
Vinyl chloride	<1.8	ug/L	10.0	1.8	10		10/14/16 10:00	75-01-4	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		10/14/16 10:00	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		10		10/14/16 10:00	460-00-4	D3
Dibromofluoromethane (S)	99	%	70-130		10		10/14/16 10:00	1868-53-7	
Toluene-d8 (S)	86	%	70-130		10		10/14/16 10:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-3-2 **Lab ID: 40139798005** Collected: 10/04/16 17:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		10/12/16 08:00	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		10/12/16 08:00	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		10/12/16 08:00	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 09:12	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 09:12	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 09:12	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 09:12	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 09:12	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 09:12	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/17/16 09:12	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 09:12	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 09:12	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 09:12	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 09:12	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 09:12	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 09:12	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 09:12	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 09:12	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 09:12	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 09:12	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 09:12	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 09:12	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 09:12	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 09:12	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 09:12	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 09:12	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/17/16 09:12	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-3-2 **Lab ID: 40139798005** Collected: 10/04/16 17:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 09:12	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 09:12	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 09:12	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 09:12	79-34-5	
Tetrachloroethene	43.5	ug/L	1.0	0.50	1		10/17/16 09:12	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 09:12	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 09:12	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 09:12	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/17/16 09:12	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 09:12	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/17/16 09:12	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 09:12	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/17/16 09:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	79	%	70-130		1		10/17/16 09:12	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		10/17/16 09:12	1868-53-7	
Toluene-d8 (S)	86	%	70-130		1		10/17/16 09:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-3-3 **Lab ID: 40139798006** Collected: 10/04/16 18:42 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 13:20	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 13:20	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 13:20	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 13:20	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 13:20	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 13:20	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/17/16 13:20	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 13:20	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 13:20	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 13:20	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 13:20	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 13:20	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 13:20	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 13:20	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 13:20	75-35-4	
cis-1,2-Dichloroethene	18.4	ug/L	1.0	0.26	1		10/17/16 13:20	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 13:20	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 13:20	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 13:20	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 13:20	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 13:20	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 13:20	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 13:20	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	99-87-6	
Methylene Chloride	0.41J	ug/L	1.0	0.23	1		10/17/16 13:20	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 13:20	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 13:20	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 13:20	630-20-6	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-3-3 **Lab ID: 40139798006** Collected: 10/04/16 18:42 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 13:20	79-34-5	
Tetrachloroethene	78.8	ug/L	1.0	0.50	1		10/17/16 13:20	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 13:20	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 13:20	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 13:20	79-00-5	
Trichloroethene	29.8	ug/L	1.0	0.33	1		10/17/16 13:20	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 13:20	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	108-67-8	
Vinyl chloride	0.18J	ug/L	1.0	0.18	1		10/17/16 13:20	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 13:20	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/17/16 13:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		10/17/16 13:20	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/17/16 13:20	1868-53-7	
Toluene-d8 (S)	79	%	70-130		1		10/17/16 13:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-11-2 **Lab ID: 40139798007** Collected: 10/05/16 12:40 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		10/12/16 08:06	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		10/12/16 08:06	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		10/12/16 08:06	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 11:05	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 11:05	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 11:05	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 11:05	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 11:05	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 11:05	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/17/16 11:05	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 11:05	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 11:05	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 11:05	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 11:05	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 11:05	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 11:05	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 11:05	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 11:05	75-35-4	
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.26	1		10/17/16 11:05	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 11:05	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 11:05	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 11:05	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 11:05	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 11:05	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 11:05	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 11:05	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/17/16 11:05	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-11-2 **Lab ID: 40139798007** Collected: 10/05/16 12:40 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 11:05	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 11:05	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 11:05	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 11:05	79-34-5	
Tetrachloroethene	286	ug/L	1.0	0.50	1		10/17/16 11:05	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 11:05	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 11:05	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 11:05	79-00-5	
Trichloroethene	0.44J	ug/L	1.0	0.33	1		10/17/16 11:05	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 11:05	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/17/16 11:05	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 11:05	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/17/16 11:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		10/17/16 11:05	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		10/17/16 11:05	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		10/17/16 11:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-11-3 **Lab ID: 40139798008** Collected: 10/05/16 13:23 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 10:20	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 10:20	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 10:20	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 10:20	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 10:20	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 10:20	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/17/16 10:20	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 10:20	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 10:20	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 10:20	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 10:20	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 10:20	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 10:20	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 10:20	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 10:20	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 10:20	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 10:20	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 10:20	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 10:20	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 10:20	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 10:20	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 10:20	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 10:20	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/17/16 10:20	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 10:20	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 10:20	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 10:20	630-20-6	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-11-3 **Lab ID: 40139798008** Collected: 10/05/16 13:23 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 10:20	79-34-5	
Tetrachloroethene	56.8	ug/L	1.0	0.50	1		10/17/16 10:20	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 10:20	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 10:20	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 10:20	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/17/16 10:20	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 10:20	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/17/16 10:20	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 10:20	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		10/17/16 10:20	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/17/16 10:20	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		10/17/16 10:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-12-3 **Lab ID: 40139798009** Collected: 10/06/16 16:05 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		10/12/16 08:13	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		10/12/16 08:13	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		10/12/16 08:13	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 10:42	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 10:42	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 10:42	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 10:42	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 10:42	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 10:42	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/17/16 10:42	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 10:42	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 10:42	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 10:42	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 10:42	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 10:42	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 10:42	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 10:42	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 10:42	75-35-4	
cis-1,2-Dichloroethene	1.3	ug/L	1.0	0.26	1		10/17/16 10:42	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 10:42	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 10:42	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 10:42	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 10:42	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 10:42	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 10:42	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 10:42	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/17/16 10:42	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-CMT-12-3 **Lab ID: 40139798009** Collected: 10/06/16 16:05 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 10:42	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 10:42	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 10:42	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 10:42	79-34-5	
Tetrachloroethene	32.6	ug/L	1.0	0.50	1		10/17/16 10:42	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 10:42	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 10:42	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 10:42	79-00-5	
Trichloroethene	15.7	ug/L	1.0	0.33	1		10/17/16 10:42	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 10:42	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/17/16 10:42	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 10:42	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/17/16 10:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		10/17/16 10:42	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/17/16 10:42	1868-53-7	
Toluene-d8 (S)	83	%	70-130		1		10/17/16 10:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-DUP-2 **Lab ID: 40139798010** Collected: 10/06/16 00:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	1.1J	ug/L	5.6	0.58	1		10/12/16 08:20	74-84-0	
Ethene	1.1J	ug/L	5.0	0.52	1		10/12/16 08:20	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		10/12/16 08:20	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		10/14/16 10:23	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		10/14/16 10:23	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		10/14/16 10:23	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		10/14/16 10:23	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		10/14/16 10:23	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		10/14/16 10:23	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		10/14/16 10:23	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		10/14/16 10:23	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		10/14/16 10:23	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		10/14/16 10:23	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		10/14/16 10:23	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		10/14/16 10:23	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		10/14/16 10:23	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		10/14/16 10:23	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		10/14/16 10:23	75-35-4	
cis-1,2-Dichloroethene	4.3J	ug/L	10.0	2.6	10		10/14/16 10:23	156-59-2	
trans-1,2-Dichloroethene	<2.6	ug/L	10.0	2.6	10		10/14/16 10:23	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		10/14/16 10:23	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		10/14/16 10:23	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		10/14/16 10:23	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		10/14/16 10:23	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		10/14/16 10:23	87-68-3	
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		10/14/16 10:23	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		10/14/16 10:23	75-09-2	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-DUP-2 **Lab ID: 40139798010** Collected: 10/06/16 00:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		10/14/16 10:23	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		10/14/16 10:23	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		10/14/16 10:23	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		10/14/16 10:23	79-34-5	
Tetrachloroethene	207	ug/L	10.0	5.0	10		10/14/16 10:23	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		10/14/16 10:23	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		10/14/16 10:23	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		10/14/16 10:23	79-00-5	
Trichloroethene	9.1J	ug/L	10.0	3.3	10		10/14/16 10:23	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		10/14/16 10:23	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	108-67-8	
Vinyl chloride	<1.8	ug/L	10.0	1.8	10		10/14/16 10:23	75-01-4	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		10/14/16 10:23	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		10/14/16 10:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		10		10/14/16 10:23	460-00-4	D3
Dibromofluoromethane (S)	99	%	70-130		10		10/14/16 10:23	1868-53-7	
Toluene-d8 (S)	88	%	70-130		10		10/14/16 10:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-EB-1 **Lab ID: 40139798011** Collected: 10/04/16 12:42 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 08:27	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 08:27	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 08:27	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 08:27	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 08:27	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 08:27	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/17/16 08:27	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 08:27	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 08:27	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 08:27	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 08:27	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 08:27	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 08:27	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 08:27	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 08:27	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 08:27	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 08:27	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 08:27	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 08:27	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 08:27	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 08:27	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 08:27	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 08:27	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/17/16 08:27	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 08:27	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 08:27	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 08:27	630-20-6	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-EB-1 **Lab ID: 40139798011** Collected: 10/04/16 12:42 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 08:27	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 08:27	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 08:27	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 08:27	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/17/16 08:27	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 08:27	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:27	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/17/16 08:27	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 08:27	179601-23-1	
o-Xylene	0.60J	ug/L	1.0	0.50	1		10/17/16 08:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		10/17/16 08:27	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		10/17/16 08:27	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		10/17/16 08:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Sample: 6404-TB **Lab ID: 40139798012** Collected: 10/04/16 00:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/17/16 08:50	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/17/16 08:50	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/17/16 08:50	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 08:50	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/17/16 08:50	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/17/16 08:50	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/17/16 08:50	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/17/16 08:50	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/17/16 08:50	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/17/16 08:50	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/17/16 08:50	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/17/16 08:50	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/17/16 08:50	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/17/16 08:50	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/17/16 08:50	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 08:50	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/17/16 08:50	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/17/16 08:50	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/17/16 08:50	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/17/16 08:50	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/17/16 08:50	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/17/16 08:50	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/17/16 08:50	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/17/16 08:50	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/17/16 08:50	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/17/16 08:50	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/17/16 08:50	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6404.5E KLINKE CLEANERS
Pace Project No.: 40139798

Sample: 6404-TB **Lab ID: 40139798012** Collected: 10/04/16 00:00 Received: 10/10/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/17/16 08:50	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/17/16 08:50	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/17/16 08:50	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/17/16 08:50	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/17/16 08:50	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/17/16 08:50	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/17/16 08:50	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/17/16 08:50	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/17/16 08:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		10/17/16 08:50	460-00-4	
Dibromofluoromethane (S)	87	%	70-130		1		10/17/16 08:50	1868-53-7	
Toluene-d8 (S)	86	%	70-130		1		10/17/16 08:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

QC Batch: 237693 Analysis Method: EPA 8015B Modified
 QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
 Associated Lab Samples: 40139798001, 40139798002, 40139798003

METHOD BLANK: 1408548 Matrix: Water

Associated Lab Samples: 40139798001, 40139798002, 40139798003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.58	5.6	10/11/16 07:49	
Ethene	ug/L	<0.52	5.0	10/11/16 07:49	
Methane	ug/L	<1.4	2.8	10/11/16 07:49	

LABORATORY CONTROL SAMPLE & LCSD: 1408549 1408550

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	53.4	55.3	100	103	76-120	3	20	
Ethene	ug/L	50	49.0	50.9	98	102	75-120	4	20	
Methane	ug/L	28.6	27.8	28.8	97	101	73-122	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409025 1409026

Parameter	Units	40139749005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.58	53.6	53.6	51.3	52.0	96	97	73-120	1	20	
Ethene	ug/L	<0.52	50	50	48.1	48.3	96	97	72-120	0	20	
Methane	ug/L	<1.4	28.6	28.6	26.5	27.1	93	95	15-187	2	20	

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QUALITY CONTROL DATA

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

QC Batch: 237694 Analysis Method: EPA 8015B Modified
 QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
 Associated Lab Samples: 40139798004, 40139798005, 40139798007, 40139798009, 40139798010

METHOD BLANK: 1408551 Matrix: Water
 Associated Lab Samples: 40139798004, 40139798005, 40139798007, 40139798009, 40139798010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.58	5.6	10/12/16 07:05	
Ethene	ug/L	<0.52	5.0	10/12/16 07:05	
Methane	ug/L	<1.4	2.8	10/12/16 07:05	

LABORATORY CONTROL SAMPLE & LCSD: 1408552

1408553

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	52.5	52.5	98	98	76-120	0	20	
Ethene	ug/L	50	48.6	48.2	97	96	75-120	1	20	
Methane	ug/L	28.6	27.1	27.2	95	95	73-122	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409195

1409197

Parameter	Units	40139798005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.58	53.6	53.6	51.8	49.7	97	93	73-120	4	20	
Ethene	ug/L	<0.52	50	50	48.0	46.1	96	92	72-120	4	20	
Methane	ug/L	<1.4	28.6	28.6	26.4	25.2	92	88	15-187	5	20	

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QUALITY CONTROL DATA

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

QC Batch: 237950 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40139798001, 40139798002, 40139798003, 40139798004, 40139798005, 40139798006, 40139798007, 40139798008, 40139798009, 40139798010, 40139798011, 40139798012

METHOD BLANK: 1409717 Matrix: Water
Associated Lab Samples: 40139798001, 40139798002, 40139798003, 40139798004, 40139798005, 40139798006, 40139798007, 40139798008, 40139798009, 40139798010, 40139798011, 40139798012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	10/14/16 06:59	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/14/16 06:59	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	10/14/16 06:59	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/14/16 06:59	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/14/16 06:59	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/14/16 06:59	
1,1-Dichloropropene	ug/L	<0.44	1.0	10/14/16 06:59	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	10/14/16 06:59	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	10/14/16 06:59	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	10/14/16 06:59	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/14/16 06:59	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/14/16 06:59	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/14/16 06:59	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/14/16 06:59	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/14/16 06:59	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/14/16 06:59	
1,3-Dichloropropane	ug/L	<0.50	1.0	10/14/16 06:59	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/14/16 06:59	
2,2-Dichloropropane	ug/L	<0.48	1.0	10/14/16 06:59	
2-Chlorotoluene	ug/L	<0.50	1.0	10/14/16 06:59	
4-Chlorotoluene	ug/L	<0.21	1.0	10/14/16 06:59	
Benzene	ug/L	<0.50	1.0	10/14/16 06:59	
Bromobenzene	ug/L	<0.23	1.0	10/14/16 06:59	
Bromochloromethane	ug/L	<0.34	1.0	10/14/16 06:59	
Bromodichloromethane	ug/L	<0.50	1.0	10/14/16 06:59	
Bromoform	ug/L	<0.50	1.0	10/14/16 06:59	
Bromomethane	ug/L	<2.4	5.0	10/14/16 06:59	
Carbon tetrachloride	ug/L	<0.50	1.0	10/14/16 06:59	
Chlorobenzene	ug/L	<0.50	1.0	10/14/16 06:59	
Chloroethane	ug/L	<0.37	1.0	10/14/16 06:59	
Chloroform	ug/L	<2.5	5.0	10/14/16 06:59	
Chloromethane	ug/L	<0.50	1.0	10/14/16 06:59	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/14/16 06:59	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/14/16 06:59	
Dibromochloromethane	ug/L	<0.50	1.0	10/14/16 06:59	
Dibromomethane	ug/L	<0.43	1.0	10/14/16 06:59	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/14/16 06:59	
Diisopropyl ether	ug/L	<0.50	1.0	10/14/16 06:59	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

METHOD BLANK: 1409717

Matrix: Water

Associated Lab Samples: 40139798001, 40139798002, 40139798003, 40139798004, 40139798005, 40139798006, 40139798007, 40139798008, 40139798009, 40139798010, 40139798011, 40139798012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	10/14/16 06:59	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	10/14/16 06:59	
m&p-Xylene	ug/L	<1.0	2.0	10/14/16 06:59	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/14/16 06:59	
Methylene Chloride	ug/L	<0.23	1.0	10/14/16 06:59	
n-Butylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	
n-Propylbenzene	ug/L	<0.50	1.0	10/14/16 06:59	
Naphthalene	ug/L	<2.5	5.0	10/14/16 06:59	
o-Xylene	ug/L	<0.50	1.0	10/14/16 06:59	
p-Isopropyltoluene	ug/L	<0.50	1.0	10/14/16 06:59	
sec-Butylbenzene	ug/L	<2.2	5.0	10/14/16 06:59	
Styrene	ug/L	<0.50	1.0	10/14/16 06:59	
tert-Butylbenzene	ug/L	<0.18	1.0	10/14/16 06:59	
Tetrachloroethene	ug/L	<0.50	1.0	10/14/16 06:59	
Toluene	ug/L	<0.50	1.0	10/14/16 06:59	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/14/16 06:59	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/14/16 06:59	
Trichloroethene	ug/L	<0.33	1.0	10/14/16 06:59	
Trichlorofluoromethane	ug/L	<0.18	1.0	10/14/16 06:59	
Vinyl chloride	ug/L	<0.18	1.0	10/14/16 06:59	
4-Bromofluorobenzene (S)	%	86	70-130	10/14/16 06:59	
Dibromofluoromethane (S)	%	95	70-130	10/14/16 06:59	
Toluene-d8 (S)	%	90	70-130	10/14/16 06:59	

LABORATORY CONTROL SAMPLE: 1409718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.2	96	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	67-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	49.2	98	70-133	
1,1-Dichloroethene	ug/L	50	46.8	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.8	88	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	52.0	104	70-130	
1,2-Dichloropropane	ug/L	50	52.8	106	70-130	
1,3-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	
Benzene	ug/L	50	50.5	101	60-135	
Bromodichloromethane	ug/L	50	51.4	103	70-130	

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QUALITY CONTROL DATA

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

LABORATORY CONTROL SAMPLE: 1409718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	52.9	106	70-130	
Bromomethane	ug/L	50	48.3	97	33-130	
Carbon tetrachloride	ug/L	50	50.2	100	70-138	
Chlorobenzene	ug/L	50	50.4	101	70-130	
Chloroethane	ug/L	50	53.3	107	51-130	
Chloroform	ug/L	50	50.3	101	70-130	
Chloromethane	ug/L	50	40.2	80	25-132	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	69-130	
cis-1,3-Dichloropropene	ug/L	50	48.8	98	70-130	
Dibromochloromethane	ug/L	50	49.5	99	70-130	
Dichlorodifluoromethane	ug/L	50	32.3	65	23-130	
Ethylbenzene	ug/L	50	49.2	98	70-136	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	70-140	
m&p-Xylene	ug/L	100	98.3	98	70-138	
Methyl-tert-butyl ether	ug/L	50	50.6	101	66-138	
Methylene Chloride	ug/L	50	50.7	101	70-130	
o-Xylene	ug/L	50	48.4	97	70-134	
Styrene	ug/L	50	50.1	100	70-133	
Tetrachloroethene	ug/L	50	50.2	100	70-138	
Toluene	ug/L	50	50.5	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.3	95	70-131	
trans-1,3-Dichloropropene	ug/L	50	45.3	91	69-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	51.0	102	50-150	
Vinyl chloride	ug/L	50	51.2	102	49-130	
4-Bromofluorobenzene (S)	%			88	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1410644 1410645

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40139779001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	45.9	47.7	92	95	70-134	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	55.2	53.5	110	107	67-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.3	51.5	107	103	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	50.2	50.9	100	102	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	43.4	43.8	87	88	68-136	1	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	44.7	45.9	89	92	62-139	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	51.9	46.3	104	93	50-150	11	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.7	50.7	105	101	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	47.9	48.2	96	96	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	52.4	52.1	105	104	70-130	1	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	51.9	52.9	104	106	70-130	2	20	

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QUALITY CONTROL DATA

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Parameter	Units	40139779001		1410644		1410645		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1,3-Dichlorobenzene	ug/L	<0.50	50	50	46.4	46.9	93	94	70-131	1	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	46.6	47.4	93	95	70-130	2	20		
Benzene	ug/L	<0.50	50	50	50.0	49.7	100	99	57-138	1	20		
Bromodichloromethane	ug/L	<0.50	50	50	49.8	49.0	100	98	70-130	1	20		
Bromoform	ug/L	<0.50	50	50	53.7	49.2	107	98	70-130	9	20		
Bromomethane	ug/L	<2.4	50	50	47.1	48.3	94	97	33-130	3	27		
Carbon tetrachloride	ug/L	<0.50	50	50	49.0	48.7	98	97	70-138	1	20		
Chlorobenzene	ug/L	<0.50	50	50	49.1	50.3	98	101	70-130	2	20		
Chloroethane	ug/L	<0.37	50	50	49.8	48.6	100	97	51-130	2	20		
Chloroform	ug/L	<2.5	50	50	49.2	49.8	98	100	70-130	1	20		
Chloromethane	ug/L	<0.50	50	50	41.9	39.6	84	79	25-132	6	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.6	47.3	93	95	61-140	2	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.2	42.4	94	85	70-130	11	20		
Dibromochloromethane	ug/L	<0.50	50	50	48.5	46.3	97	93	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	30.3	31.6	61	63	23-130	4	20		
Ethylbenzene	ug/L	<0.50	50	50	44.7	43.8	89	88	70-138	2	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	45.2	45.9	90	92	70-152	1	20		
m&p-Xylene	ug/L	<1.0	100	100	80.0	73.6	80	74	70-140	8	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	52.2	50.8	104	102	66-139	3	20		
Methylene Chloride	ug/L	<0.23	50	50	50.4	50.2	101	100	70-130	0	20		
o-Xylene	ug/L	<0.50	50	50	41.0	37.4	82	75	70-134	9	20		
Styrene	ug/L	<0.50	50	50	26.2	19.7	52	39	70-138	28	20	M1,R1	
Tetrachloroethene	ug/L	<0.50	50	50	48.8	50.9	98	102	70-148	4	20		
Toluene	ug/L	<0.50	50	50	47.9	46.9	96	94	70-130	2	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	46.8	46.3	94	93	70-133	1	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	45.4	40.8	91	82	69-130	11	20		
Trichloroethene	ug/L	<0.33	50	50	50.8	50.1	102	100	70-131	1	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	49.5	51.3	99	103	50-150	4	20		
Vinyl chloride	ug/L	<0.18	50	50	47.9	49.0	96	98	49-133	2	20		
4-Bromofluorobenzene (S)	%						89	89	70-130				
Dibromofluoromethane (S)	%						95	96	70-130				
Toluene-d8 (S)	%						91	89	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6404.5E KLINKE CLEANERS

Pace Project No.: 40139798

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40139798001	6404-MW-1	EPA 8015B Modified	237693		
40139798002	6404-MW-2	EPA 8015B Modified	237693		
40139798003	6404-MW-3	EPA 8015B Modified	237693		
40139798004	6404-MW-7	EPA 8015B Modified	237694		
40139798005	6404-CMT-3-2	EPA 8015B Modified	237694		
40139798007	6404-CMT-11-2	EPA 8015B Modified	237694		
40139798009	6404-CMT-12-3	EPA 8015B Modified	237694		
40139798010	6404-DUP-2	EPA 8015B Modified	237694		
40139798001	6404-MW-1	EPA 8260	237950		
40139798002	6404-MW-2	EPA 8260	237950		
40139798003	6404-MW-3	EPA 8260	237950		
40139798004	6404-MW-7	EPA 8260	237950		
40139798005	6404-CMT-3-2	EPA 8260	237950		
40139798006	6404-CMT-3-3	EPA 8260	237950		
40139798007	6404-CMT-11-2	EPA 8260	237950		
40139798008	6404-CMT-11-3	EPA 8260	237950		
40139798009	6404-CMT-12-3	EPA 8260	237950		
40139798010	6404-DUP-2	EPA 8260	237950		
40139798011	6404-EB-1	EPA 8260	237950		
40139798012	6404-TB	EPA 8260	237950		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: **WO# : 40139798**

Client Name: EnviroForensics

Courier: Fed Ex UPS Client Pace Other: C3 Logistics



Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: ROI Biological Tissue is Frozen: yes

Temp Blank Present: yes no no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 10/10/16
Initials: π

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>0071 vial no collect time; 012 no label</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>10/10/16</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed _____ Lab Std #ID of preservative _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>7647-01-0</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Client put labels on caps of all samples - 10-10-16

Project Manager Review: AMH for DM

Date: 10/10/16



10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

Client: Brian Kappen
EnviroForensics
N16 W23390 Stone Ridge Drive
Suite G
Waukesha, WI 53188

Phone: 414-326-4412

Fax:

Identifier: 011NJ

Date Rec: 10/06/2016

Report Date: 10/10/2016

Client Project #: 6404

Client Project Name: Klinke's Cleaners

Purchase Order #: 20169089

Analysis Requested: CENSUS

Reviewed By:

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Client: EnviroForensics
Project: Klinke's Cleaners

MI Project Number: 011NJ
Date Received: 10/06/2016

Sample Information

Client Sample ID:	6404-MW-1	6404-MW-3
Sample Date:	10/05/2016	10/05/2016
Units:	cells/mL	cells/mL
Analyst:	JS	JS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	DHC	9.06E+02	3.96E+04
tceA Reductase	TCE	6.34E+01	1.50E+03
BAV1 Vinyl Chloride Reductase	BVC	<7.10E+00	<2.30E+00
Vinyl Chloride Reductase	VCR	1.90E+01	1.64E+03

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

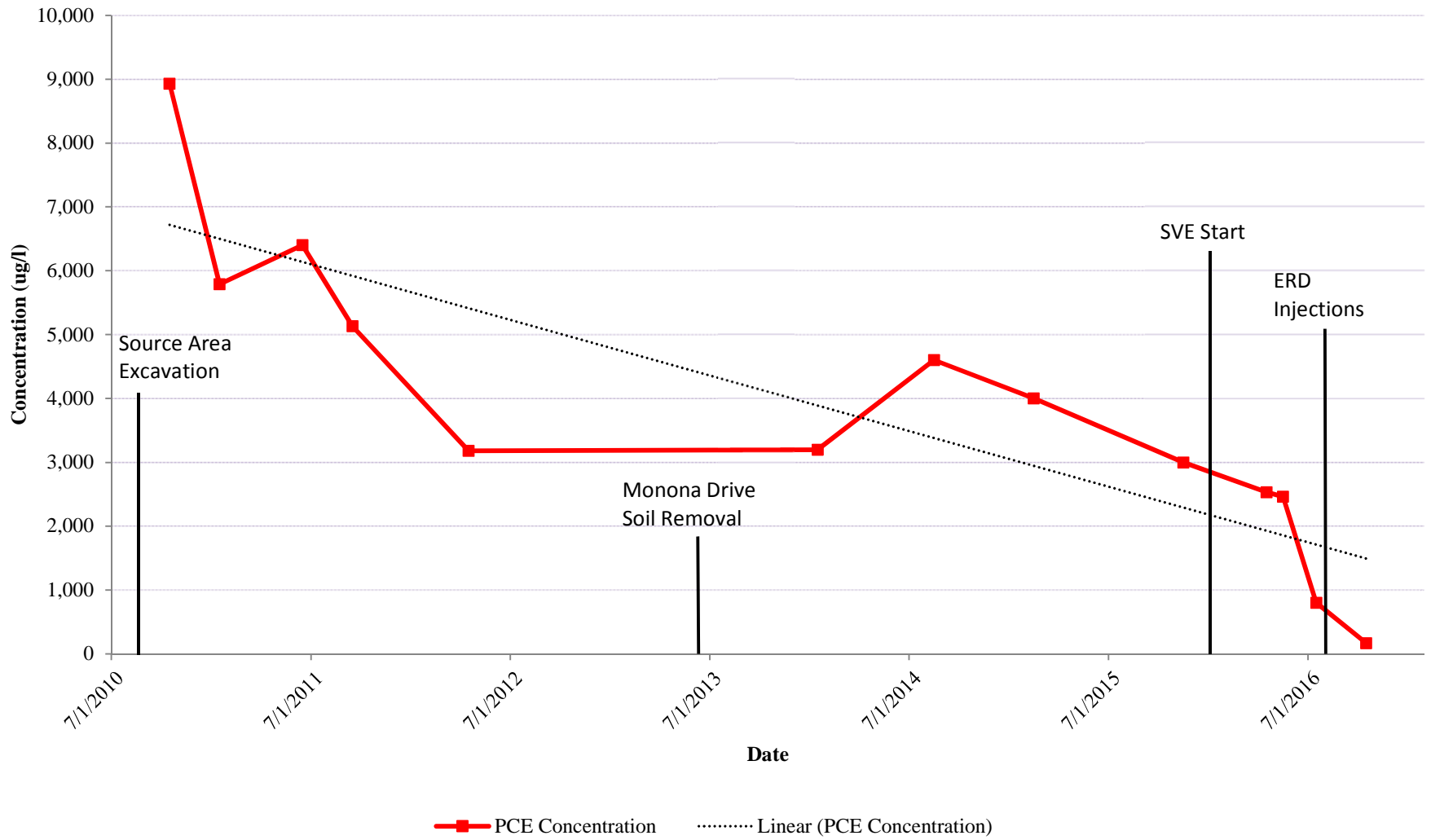
Samples Received 10/6/2016

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
BVC	10/06/2016	10/10/2016	1 °C	105%	non-detect	non-detect
TCE	10/06/2016	10/10/2016	1 °C	106%	non-detect	non-detect
VCR	10/06/2016	10/10/2016	1 °C	99%	non-detect	non-detect
DHC	10/06/2016	10/10/2016	1 °C	108%	non-detect	non-detect

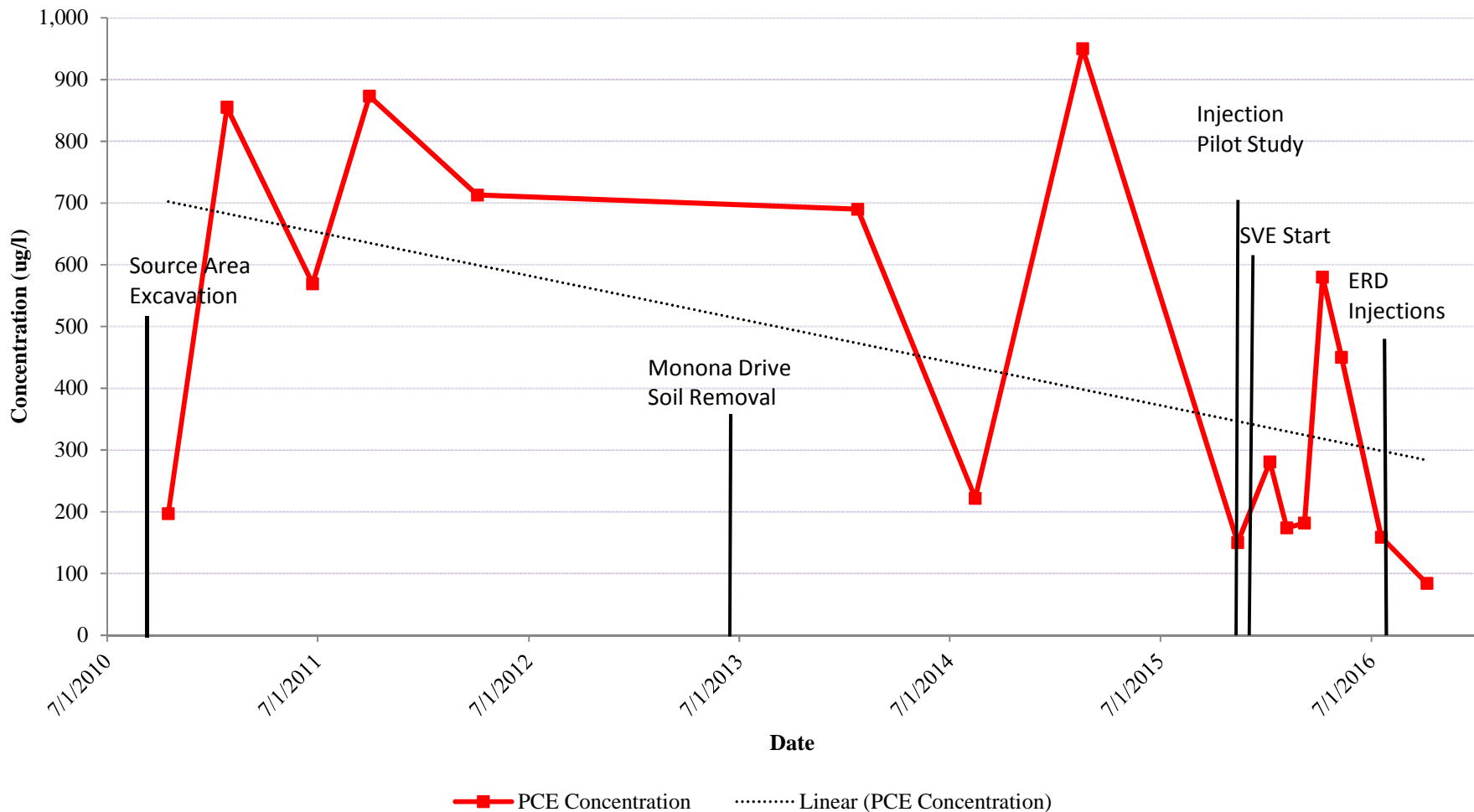
APPENDIX L

Groundwater Contaminant Concentration Trend Graphs

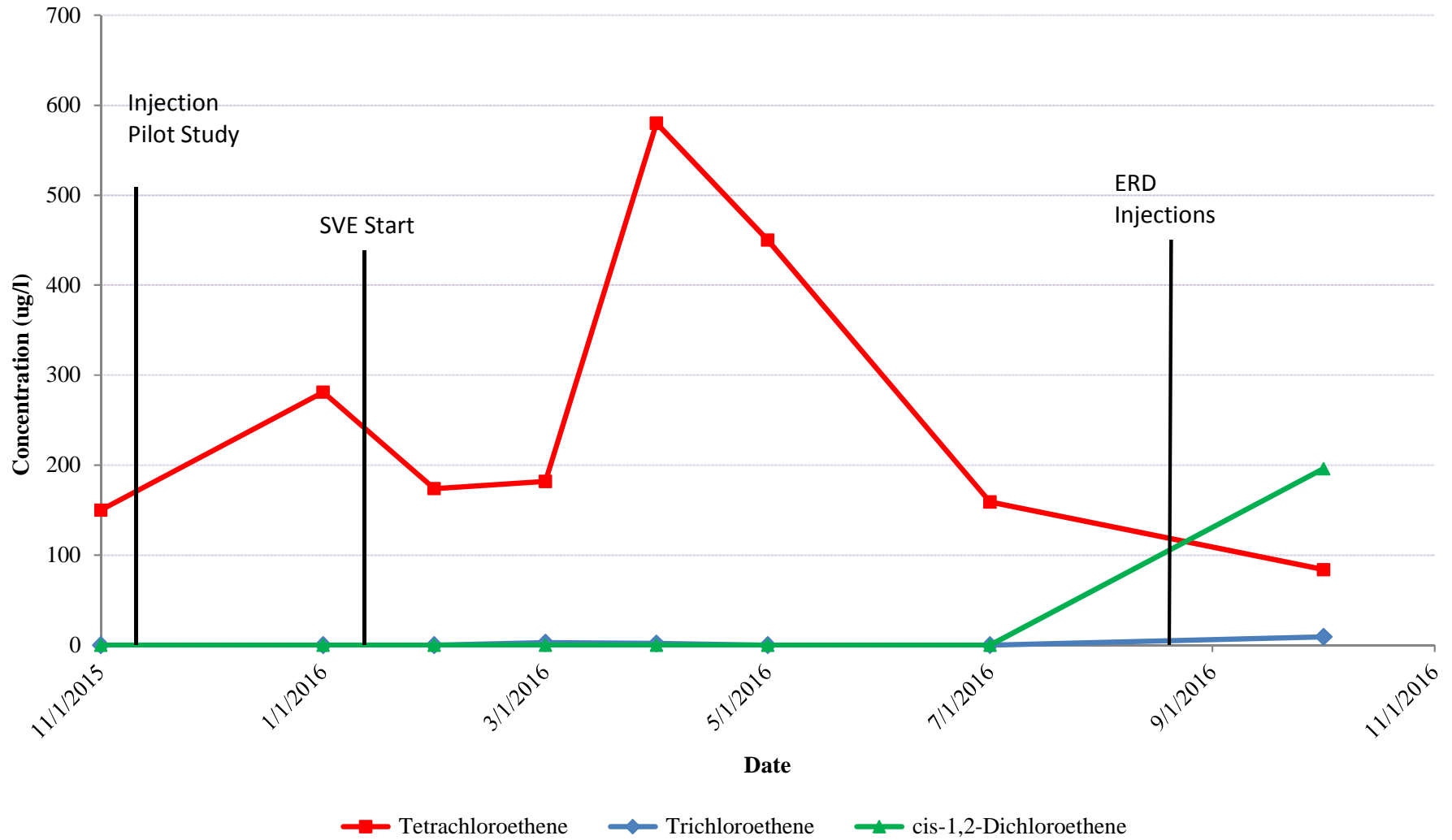
MW-1 PCE Concentration Trend



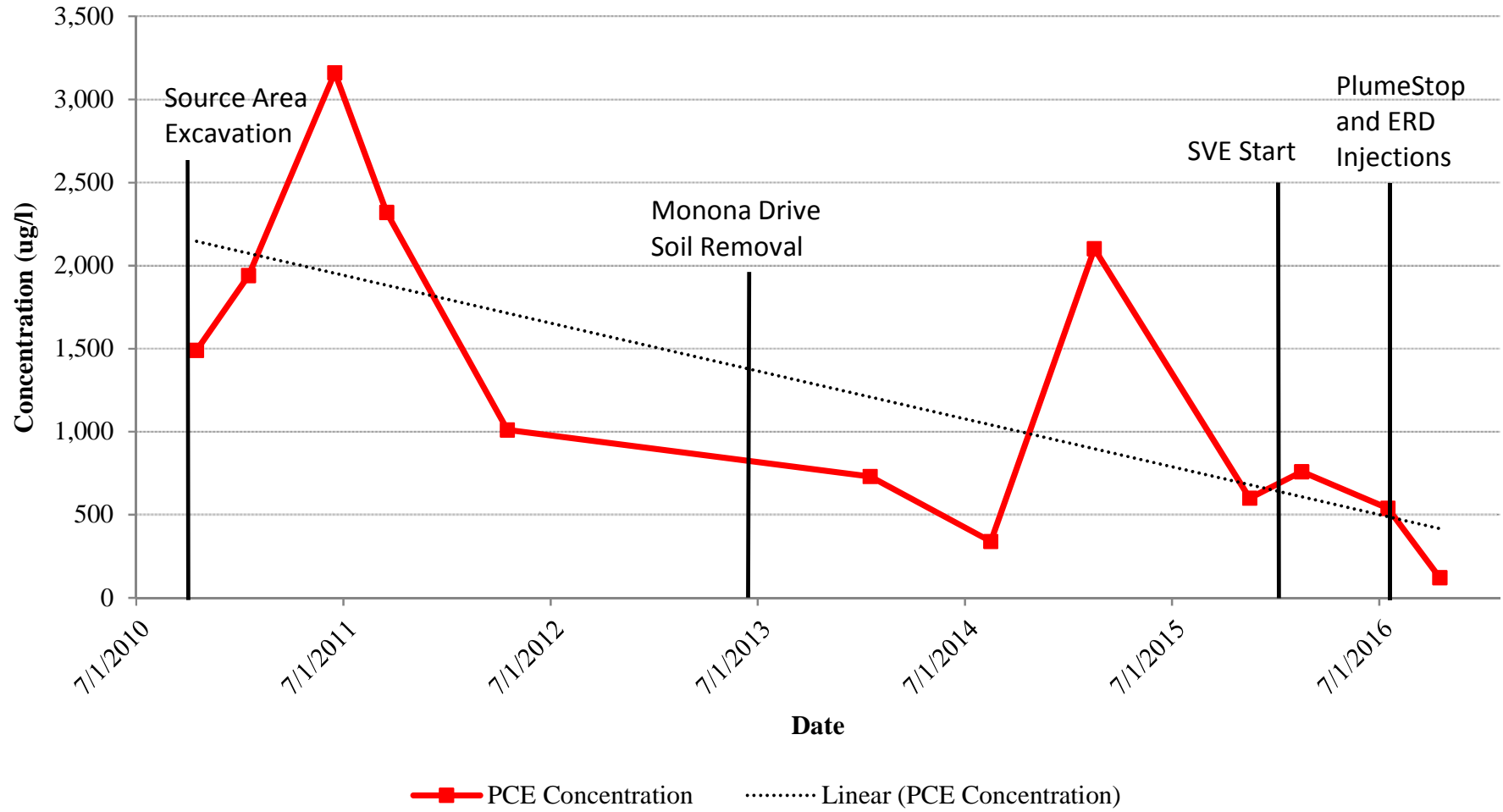
MW-3 PCE Concentration Trend



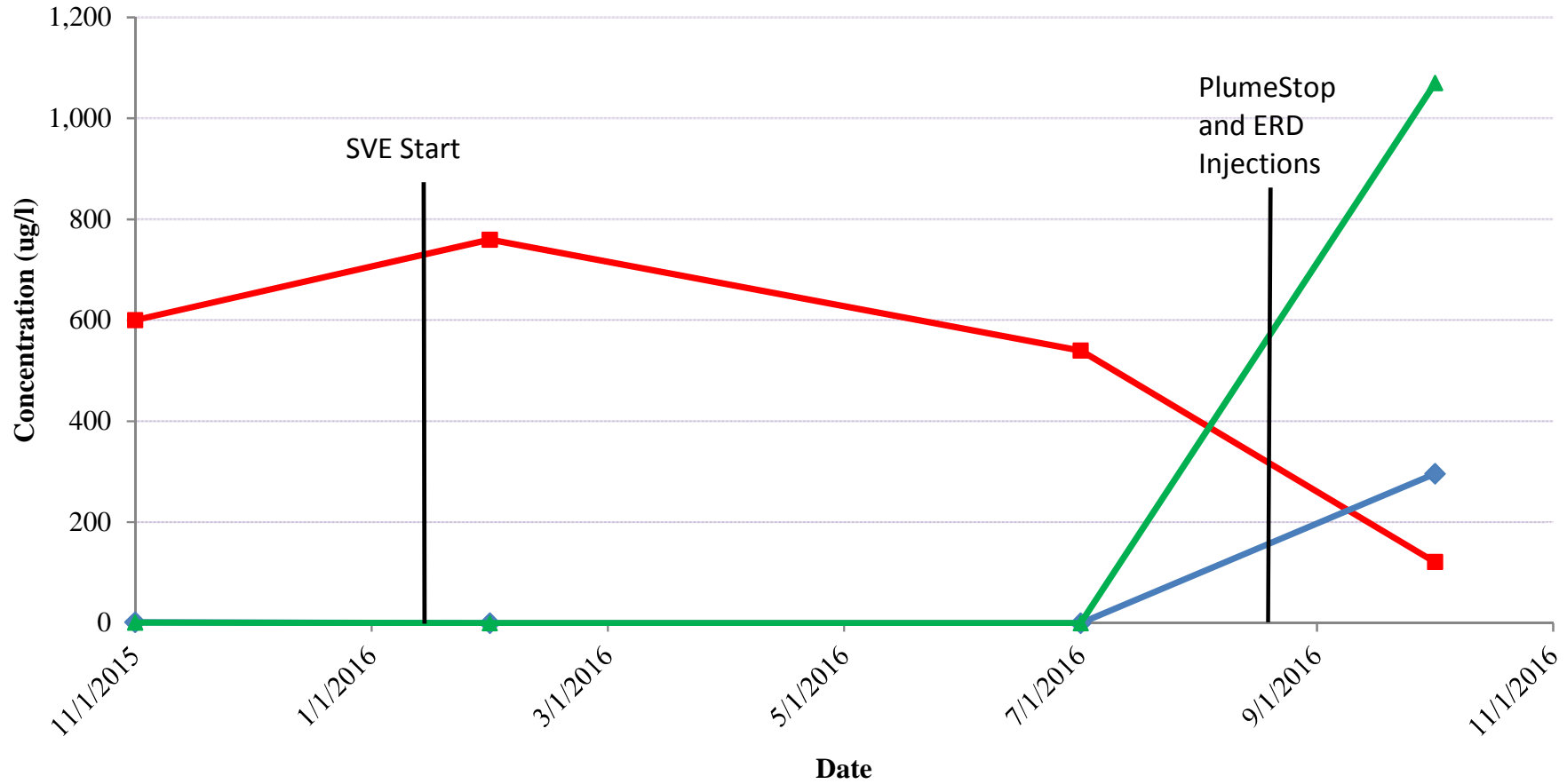
MW-3 VOC Concentration Trends



MW-4 PCE Concentration Trend



MW-4 VOC Concentration Trends



■ Tetrachloroethene ◆ Trichloroethene ▲ cis-1,2-Dichloroethene

MW-9 PCE Concentration Trend

