



January 16, 2014

Mr. Richard Klinke  
Klinke Cleaners  
4518 Monona Drive  
Madison, Wisconsin 53716



**Re: Site Investigation Report and Closure Request Work Scope and Cost Estimate  
Klinke Cleaners  
2875 University Ave, Madison, Wisconsin  
BRRTS#: 02-13-551964**

Dear Mr. Klinke:

Environmental Forensic Investigations, Inc. (EnviroForensics) is pleased to provide this work scope and cost estimate for additional activities related to the site investigation at the Klinke Cleaners facility located at 2875 University Avenue in Madison, Wisconsin (the Site). The site investigation is being performed in accordance with the requirements of Wisconsin Administrative Code (WAC) Chapter NR 716 and associated rules.

Based on recent email and verbal communications with the Wisconsin Department of Natural Resources (WDNR), it was determined that the Site investigation requirements have been satisfied. Submittal of a final Site Investigation Report, prepared in accordance with NR 716.15, is required prior to case closure consideration.

### **PHASE 3 WORK SCOPE**

To accommodate our cost and work scope tracking and invoicing procedures, the overall scope of work for this Further Site Investigation (FSI) is designated as Phase 3, with the individual work elements designated as sub-phases. This tracking system allows us to effectively manage all work tasks to meet schedule and budget, and also allows us to fashion detailed invoices, which are required by the Dry Cleaner Environmental Response Fund (DERF). The details of this Work Scope have been discussed with WDNR Project Manager, Mr. Jim Walden.

#### **Phase 3a: Work Scope Development**

EnviroForensics prepared this Work Scope and Cost Estimate to serve as the procedures document and budgetary guide for the activities described below.

*Document: 6272-0083*

Environmental Forensic Investigations, Inc.  
N16 W23390 Stone Ridge Drive, Suite G, Waukesha, WI 53188  
Phone: 414-982-3988 • Fax 317-972-7875



### **Phase 3b: Site Investigation Report**

EnviroForensics will prepare a comprehensive Site Investigation Report following the rules set forth in WAC Chapter NR 716.15. As required, the Site Investigation Report will describe the investigation methods, present all data collected to characterize the Site and define the nature and extent of contamination, provide scientifically-sound data interpretations, and recommend that the site investigation be considered complete. The report will include all site investigation data collected to date. Appropriate tables, maps, figures, geologic cross-sections, and attachments will be provided, as required, to effectively present and interpret the findings of the investigation.

### **Phase 3c: Case Closure Request**

EnviroForensics will prepare a Cost Closure Request (WDNR Form 4400-202) and all required attachments including data tables, maps and figures, and source legal documents. Based on the low concentrations of VOCs detected in Site soil, EnviroForensics anticipates that a soil performance standard (i.e., a surface cap or pavement cover) will not be required for closure. If WDNR does require a soil performance standard, a maintenance plan will be prepared at an additional cost. The budget for this phase of the Work Scope includes case closure fees imposed by WDNR. The fees total \$1350, including \$1050 for review of the closure request and \$300 for inclusion on the GIS Registry for residual soil contamination. These fees are not reimbursable through DERF.

### **Phase 3d: Project Management**

Project management tasks will include budget management and tracking; management of personnel and scheduling; as well as meetings and conference calls with regulators, clients, and other project stakeholders.

## **SCHEDULE**

The activities described above will be initiated immediately upon approval of this Work Scope. The Site Investigation Report will be submitted to WDNR within six (6) weeks of Work Scope approval. The Case Closure Request will be submitted to WDNR within four (4) weeks of receiving written concurrence with the Site Investigation report. The closure review process will take between 2 and 4 months to complete. EnviroForensics anticipates that Phase 3 of the project will be completed in 5 to 7 months depending on the duration of the closure review.

## **PROJECT TEAM**

Mr. Brian Kappen, P.G. will manage this project and will serve as the project Hydrogeologist as defined in Wisconsin Administrative Code Chapter NR 712.03(1). Mr. Kappen will also provide



oversight of all project activities as required by NR 712.05. Mr. Wayne Fassbender, P.G., P.M.P. will serve as senior project manager. As required by NR 712, the staff will meet the appropriate professional requirements necessary for each Phase of the project.

## **COST ESTIMATE**

All services provided in support of this proposal will be billed on a time-and-materials basis. The cost estimate to complete this scope of work is **\$13,845**. Costs are itemized by Phase in **Attachment 1**. The costs have been allocated across the required categories and presented as Change Order #3 on the DERF Reimbursement Cost Detail Linking Spreadsheet, Form 4400-214D, also included in **Attachment 1**. No work will be conducted in excess of the estimated costs per Phase without prior written approval.

We appreciate the opportunity to work with you on this project. If you have any questions regarding the results of this investigation, please do not hesitate to call me at (414) 326-4412.

Sincerely,

**Environmental Forensic Investigations, Inc.**

A handwritten signature in blue ink that reads "Brian Kappen".

Brian Kappen, PG  
*Project Manager*

A handwritten signature in blue ink that reads "Wayne P. Fassbender".

Wayne Fassbender, PG, PMP  
*Senior Project Manager*

cc: Jim Walden, Wisconsin Department of Natural Resources

Attachments



**ATTACHMENT 1**

**Itemized Cost Breakdown Sheets**

**DERF Reimbursement Cost Detail Linking Spreadsheet, Form 4400-214D**





	Direct Costs - Chargeable Equipme	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	\$ 20.00		\$ 130.00			
	Mileage at Federal IRS Reimbursement Ra	\$ 0.51					
	Air Velocity Meter (per use)			\$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			\$ 165.00			
	Dissolved Oxygen Meter			\$ 40.00			
	FID Foxboro/Sensidyne (TIP)			\$ 155.00			
	Flow Cell			\$ 105.00			
	PID or 580 OVM			\$ 120.00			
	Turbidity Meter			\$ 30.00			
	ORP Meter			\$ 30.00			
	Air Pump - Low Flow (Barcad)			\$ 25.00			
	Development Pump			\$ 130.00			
Pumps	Electric Submersible Pump with Control Box (Units)			\$ 130.00			
	Micro Purge Bladder	\$ 12.00					
	Peristaltic Pump			\$ 105.00			
	Pumping Test Accessory Equipment (Flow	\$ 100.00					
	Portable SVE Unit - 1.5 HP			\$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			\$ 235.00			
	Bailers (Disposable)	\$ 10.00					
Other	Bailers (Non-Disposable)			\$ 15.00			
	Core Boxes	\$ 10.00					
	Core Sampler			\$ 55.00			
	Data Logger with Transducer			\$ 155.00			
	Well Caps	\$ 30.00					
	Elec. Well Sounder (Probe)			\$ 30.00			
	5035 Sample Kit	\$ 16.00					
	Field Book	\$ 11.00					
	Filter - Large	\$ 18.00					
	Filter - Small	\$ 9.00					
	Generator			\$ 105.00			
	Hand Auger			\$ 30.00			
	Helium QA/QC Kit			\$ 235.00			
	Helium QA/QC Accessories	\$ 20.00					
	Oil/Water Interface Probe			\$ 105.00			
	Padlocks	\$ 15.00					
	Steam Cleaner			\$ 130.00			
	Transducer (ea)			\$ 40.00			
	Hand Drill			\$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD	\$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID	\$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	\$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	\$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	\$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	\$ 8.30					
	55-Gallon Drum	\$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	\$ 75.00					
	Well Cover 8X12"	\$ 105.00					
	Measuring Wheel			\$ 15.00			
	Camera			\$ 25.00			
	1L Tedlar Bag	\$ 20.00					
	HAZMAT Exemption Shipper	\$ 40.00					
	Manometers	\$105.00					
	Westlaw	\$105.00					
	Cones, Baracades & Traffic Signs			\$ 10.00			
	Safety	Gloves (Chemical Resistant)	\$ 10.00				
		Level "B": Level "C1" plus SCBA			\$ 210.00		
		Level "C1": Level "C2" plus Polycoat Suit			\$ 85.00		
		Level "C2": Level "D" plus Respirator			\$ 40.00		
		Standby SCBA			\$ 130.00		
All routine Level D safety equip. and routine field equip.			\$ 130.00				
Production	1 Inch Binder	\$ 9.00					
	2 Inch Binder	\$ 12.00					
	3 Inch Binder	\$ 15.00					
	4 Inch Binder	\$ 22.00					
	Binder Tabs (Set of 8)	\$ 5.00					
	Color Copies	\$ 0.40	5			\$2.00	
	B/W Copies	\$ 0.25	20			\$5.00	
	Document - Format/Sending	\$ 15.00	1			\$15.00	
Report CD Copy	\$ 5.00						
						\$22.00	
<b>PHASE TOTAL</b>						<b>\$732.00</b>	





	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal
Vehicles	Field Vehicle - Full Day	\$ 20.00		\$ 130.00		
	Mileage at Federal IRS Reimbursement Rate (over 100 mil)	\$ 0.51				
Meters	Air Velocity Meter (per use)			\$ 25.00		
	Multi-meter Conductivity/pH/Temp/TDS			\$ 165.00		
	Dissolved Oxygen Meter			\$ 40.00		
	FID Foxboro/Sensidyne (TIP)			\$ 155.00		
	Flow Cell			\$ 105.00		
	PID or 580 OVM			\$ 120.00		
	Turbidity Meter			\$ 30.00		
	ORP Meter			\$ 30.00		
Pumps	Air Pump - Low Flow (Barcad)			\$ 25.00		
	Development Pump			\$ 130.00		
	Electric Submersible Pump with Control Box (Units)			\$ 130.00		
	Micro Purge Bladder	\$ 12.00				
	Peristaltic Pump			\$ 105.00		
	Pumping Test Accessory Equipment (Flow Meters/Manifol)	\$ 100.00				
	Portable SVE Unit - 1.5 HP			\$ 155.00		
Other	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			\$ 235.00		
	Bailers (Disposable)	\$ 10.00				
	Bailers (Non-Disposable)			\$ 15.00		
	Core Boxes	\$ 10.00				
	Core Sampler			\$ 55.00		
	Data Logger with Transducer			\$ 155.00		
	Well Caps	\$ 30.00				
	Elec. Well Sounder (Probe)			\$ 30.00		
	5035 Sample Kit	\$ 16.00				
	Field Book	\$ 11.00				
	Filter - Large	\$ 18.00				
	Filter - Small	\$ 9.00				
	Generator			\$ 105.00		
	Hand Auger			\$ 30.00		
	Helium QA/QC Kit			\$ 235.00		
	Helium QA/QC Accessories	\$ 20.00				
	Oil/Water Interface Probe			\$ 105.00		
	Padlocks	\$ 15.00				
	Steam Cleaner			\$ 130.00		
	Transducer (ea)			\$ 40.00		
	Hand Drill			\$ 75.00		
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	\$ 1.40				
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	\$ 1.55				
	Tubing - Polypropylene: 1/4" (per foot)	\$ 0.52				
	Tubing - Polypropylene: 1/2" (per foot)	\$ 0.78				
	Tubing - Tygon: 3/8" STD (per foot)	\$ 4.15				
	Tubing - Silicone: 3/8" STD (per foot)	\$ 8.30				
	55-Gallon Drum	\$ 55.00				
	Vapor Pin Sub-Slab Sampling Port	\$ 75.00				
	Well Cover 8X12"	\$ 105.00				
	Measuring Wheel			\$ 15.00		
	Camera			\$ 25.00		
	1L Tedlar Bag	\$ 20.00				
HAZMAT Exemption Shipper	\$ 40.00					
Manometers	\$105.00					
Westlaw	\$105.00					
Cones, Baracades & Traffic Signs			\$ 10.00			
Safety	Gloves (Chemical Resistant)	\$ 10.00				
	Level "B": Level "C1" plus SCBA			\$ 210.00		
	Level "C1": Level "C2" plus Polycoat Suit			\$ 85.00		
	Level "C2": Level "D" plus Respirator			\$ 40.00		
	Standby SCBA			\$ 130.00		
All routine Level D safety equip. and routine field equip.			\$ 130.00			
Production	1 Inch Binder	\$ 9.00				
	2 Inch Binder	\$ 12.00				
	3 Inch Binder	\$ 15.00				
	4 Inch Binder	\$ 22.00				
	Binder Tabs (Set of 8)	\$ 5.00				
	Color Copies	\$ 0.40	70			\$28.00
	B/W Copies	\$ 0.25	200			\$50.00
	Document - Format/Sending	\$ 15.00	2			\$30.00
Report CD Copy	\$ 5.00					
						\$108.00
						\$108.00
<b>PHASE TOTAL</b>						<b>\$4,760.50</b>



Project Title:  
 Project Number/Name:  
 Date:

Klinke--Campus Change Order #3  
 BRRTS: 02-13-551964  
 1/15/2013



PHASE 3c: Case Closure Request						
Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Sr Project Manager	\$170.00	hr			\$0.00	
Project Manager	\$130.00	hr			\$0.00	
Field Professional-Field (prep)	\$95.00	hr			\$0.00	
Drafting	\$95.00	hr			\$0.00	
Admin	\$60.00	hr			\$0.00	
Counsel	\$130.00	hr			\$0.00	
		hr			\$0.00	
		hr			\$0.00	
		hr			\$0.00	
					\$0.00	\$0.00

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	\$185.00	hr			\$0.00	
Sr Project Manager	\$130.00	hr	2.0		\$260.00	
Project Manager	\$130.00	hr	16.0		\$2,080.00	
Staff Professional-Office	\$95.00	hr			\$0.00	
Field Professional-Office	\$95.00	hr	16.0		\$1,520.00	
Drafting	\$95.00	hr	6.0		\$570.00	
Admin	\$60.00	hr	1.0		\$60.00	
Counsel	\$130.00	hr			\$0.00	
		hr			\$0.00	
		hr			\$0.00	
		hr			\$0.00	
					\$4,490.00	\$4,490.00

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.15	\$0.00	
Driller		LS	1.0	1.15	\$0.00	
Surveyor		LS	1.0	1.15	\$0.00	
Waste Disposal		LS	1.0	1.15	\$0.00	
Historical Database Report		LS	1.0	1.15	\$0.00	
Remediation		LS	1.0	1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
					\$0.00	\$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	Task Total
Soil VOC 8260 dry wt	\$83.50	ea		1.15	\$0.00	
Soil VOC 8260 dry wt QA/QC	\$83.50	ea		1.15	\$0.00	
GW VOC 8260	\$70.00	ea		1.15	\$0.00	
GW VOC 8260 QA/QC	\$70.00	ea		1.15	\$0.00	
Air TO-15 -- Soil Gas	\$200.00	ea		1.15	\$0.00	
Air TO-15 -- Sub-Slab	\$200.00	ea		1.15	\$0.00	
Air TO-15 -- Indoor Air	\$200.00	ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
Trip Blank VOCs 8260	\$70.00	ea		1.15	\$0.00	
Level IV QA/QC (15%)					\$0.00	
					\$0.00	\$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	Task Total
Hotel		day		1.15	\$0.00	
Meals		LS	1.0	1.15	\$0.00	
Misc Materials		LS	1.0	1.15	\$0.00	
Equipment Rental		LS	1.0	1.15	\$0.00	
Closure and GIS Registry Fee	\$1,350.00	LS	1.0	1.00	\$1,350.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$1,350.00	\$1,350.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal
Vehicles	Field Vehicle - Full Day	\$ 20.00		\$ 130.00		
	Mileage at Federal IRS Reimbursement Rate (over 100 mil)	\$ 0.51				
Meters	Air Velocity Meter (per use)			\$ 25.00		
	Multi-meter Conductivity/pH/ Temp/TDS			\$ 165.00		
	Dissolved Oxygen Meter			\$ 40.00		
	FID Foxboro/Sensidyne (TIP)			\$ 155.00		
	Flow Cell			\$ 105.00		
	PID or 580 OVM			\$ 120.00		
	Turbidity Meter			\$ 30.00		
	ORP Meter			\$ 30.00		
Pumps	Air Pump - Low Flow (Barcad)			\$ 25.00		
	Development Pump			\$ 130.00		
	Electric Submersible Pump with Control Box (Units)			\$ 130.00		
	Micro Purge Bladder	\$ 12.00				
	Peristaltic Pump			\$ 105.00		
	Pumping Test Accessory Equipment (Flow Meters/Manifol)	\$ 100.00				
	Portable SVE Unit - 1.5 HP			\$ 155.00		
Other	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			\$ 235.00		
	Bailers (Disposable)	\$ 10.00				
	Bailers (Non-Disposable)			\$ 15.00		
	Core Boxes	\$ 10.00				
	Core Sampler			\$ 55.00		
	Data Logger with Transducer			\$ 155.00		
	Well Caps	\$ 30.00				
	Elec. Well Sounder (Probe)			\$ 30.00		
	5035 Sample Kit	\$ 16.00				
	Field Book	\$ 11.00				
	Filter - Large	\$ 18.00				
	Filter - Small	\$ 9.00				
	Generator			\$ 105.00		
	Hand Auger			\$ 30.00		
	Helium QA/QC Kit			\$ 235.00		
	Helium QA/QC Accessories	\$ 20.00				
	Oil/Water Interface Probe			\$ 105.00		
	Padlocks	\$ 15.00				
	Steam Cleaner			\$ 130.00		
	Transducer (ea)			\$ 40.00		
	Hand Drill			\$ 75.00		
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	\$ 1.40				
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	\$ 1.55				
	Tubing - Polypropylene: 1/4" (per foot)	\$ 0.52				
	Tubing - Polypropylene: 1/2" (per foot)	\$ 0.78				
	Tubing - Tygon: 3/8" STD (per foot)	\$ 4.15				
	Tubing - Silicone: 3/8" STD (per foot)	\$ 8.30				
	55-Gallon Drum	\$ 55.00				
	Vapor Pin Sub-Slab Sampling Port	\$ 75.00				
	Well Cover 8X12"	\$ 105.00				
	Measuring Wheel			\$ 15.00		
	Camera			\$ 25.00		
	1L Tedlar Bag	\$ 20.00				
	HAZMAT Exemption Shipper	\$ 40.00				
Manometers	\$105.00					
Westlaw	\$105.00					
Cones, Baracades & Traffic Signs			\$ 10.00			
Safety	Gloves (Chemical Resistant)	\$ 10.00				
	Level "B": Level "C1" plus SCBA			\$ 210.00		
	Level "C1": Level "C2" plus Polycat Suit			\$ 85.00		
	Level "C2": Level "D" plus Respirator			\$ 40.00		
	Standby SCBA			\$ 130.00		
All routine Level D safety equip. and routine field equip.			\$ 130.00			
Production	1 Inch Binder	\$ 9.00				
	2 Inch Binder	\$ 12.00				
	3 Inch Binder	\$ 15.00				
	4 Inch Binder	\$ 22.00				
	Binder Tabs (Set of 8)	\$ 5.00				
	Color Copies	\$ 0.40	25			\$10.00
	B/W Copies	\$ 0.25	50			\$12.50
	Document - Format/Sending	\$ 15.00	2			\$30.00
Report CD Copy	\$ 5.00					
						\$52.50
						\$52.50
<b>PHASE TOTAL</b>						<b>\$5,892.50</b>



Project Title:  
 Project Number/Name:  
 Date:

Klinke--Campus Change Order #3  
 BRRS: 02-13-551964  
 1/15/2013



PHASE 3d: Project Management						
Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Sr Project Manager	\$170.00	hr			\$0.00	
Project Manager	\$130.00	hr			\$0.00	
Field Professional-Field (prep)	\$95.00	hr			\$0.00	
Drafting	\$95.00	hr			\$0.00	
Admin	\$60.00	hr			\$0.00	
Counsel	\$130.00	hr			\$0.00	
		hr			\$0.00	
		hr			\$0.00	
		hr			\$0.00	
					\$0.00	\$0.00

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	\$185.00	hr			\$0.00	
Sr Project Manager	\$130.00	hr	6.0		\$780.00	
Project Manager	\$130.00	hr	12.0		\$1,560.00	
Staff Professional-Office	\$95.00	hr			\$0.00	
Field Professional-Office	\$95.00	hr			\$0.00	
Drafting	\$95.00	hr			\$0.00	
Admin	\$60.00	hr	2.0		\$120.00	
Counsel	\$130.00	hr			\$0.00	
		hr			\$0.00	
		hr			\$0.00	
		hr			\$0.00	
					\$0.00	
					\$2,460.00	\$2,460.00

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.15	\$0.00	
Driller		LS	1.0	1.15	\$0.00	
Surveyor		LS	1.0	1.15	\$0.00	
Waste Disposal		LS	1.0	1.15	\$0.00	
Historical Database Report		LS	1.0	1.15	\$0.00	
Remediation		LS	1.0	1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
					\$0.00	\$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	Task Total
Soil VOC 8260 dry wt	\$83.50	ea		1.15	\$0.00	
Soil VOC 8260 dry wt QA/QC	\$83.50	ea		1.15	\$0.00	
GW VOC 8260	\$70.00	ea		1.15	\$0.00	
GW VOC 8260 QA/QC	\$70.00	ea		1.15	\$0.00	
Air TO-15 -- Soil Gas	\$200.00	ea		1.15	\$0.00	
Air TO-15 -- Sub-Slab	\$200.00	ea		1.15	\$0.00	
Air TO-15 -- Indoor Air	\$200.00	ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
Trip Blank VOCs 8260	\$70.00	ea		1.15	\$0.00	
Level IV QA/QC (15%)					\$0.00	
					\$0.00	\$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	Task Total
Hotel		day		1.15	\$0.00	
Meals		LS	1.0	1.15	\$0.00	
Misc Materials		LS	1.0	1.15	\$0.00	
Equipment Rental		LS	1.0	1.15	\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	\$0.00



Direct Costs - Chargeable Equipment Expense		Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	\$ 20.00		\$ 130.00			
	Mileage at Federal IRS Reimbursement Rate (over 100 mil)	\$ 0.51					
Meters	Air Velocity Meter (per use)			\$ 25.00			
	Multi-meter Conductivity/pH/Temp/TDS			\$ 165.00			
	Dissolved Oxygen Meter			\$ 40.00			
	FID Foxboro/Sensidyne (TIP)			\$ 155.00			
	Flow Cell			\$ 105.00			
	PID or 580 OVM			\$ 120.00			
	Turbidity Meter			\$ 30.00			
	ORP Meter			\$ 30.00			
Pumps	Air Pump - Low Flow (Barcad)			\$ 25.00			
	Development Pump			\$ 130.00			
	Electric Submersible Pump with Control Box (Units)			\$ 130.00			
	Micro Purge Bladder	\$ 12.00					
	Peristaltic Pump			\$ 105.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifol)	\$ 100.00					
	Portable SVE Unit - 1.5 HP			\$ 155.00			
Other	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			\$ 235.00			
	Bailers (Disposable)	\$ 10.00					
	Bailers (Non-Disposable)			\$ 15.00			
	Core Boxes	\$ 10.00					
	Core Sampler			\$ 55.00			
	Data Logger with Transducer			\$ 155.00			
	Well Caps	\$ 30.00					
	Elec. Well Sounder (Probe)			\$ 30.00			
	5035 Sample Kit	\$ 16.00					
	Field Book	\$ 11.00					
	Filter - Large	\$ 18.00					
	Filter - Small	\$ 9.00					
	Generator			\$ 105.00			
	Hand Auger			\$ 30.00			
	Helium QA/QC Kit			\$ 235.00			
	Helium QA/QC Accessories	\$ 20.00					
	Oil/Water Interface Probe			\$ 105.00			
	Padlocks	\$ 15.00					
	Steam Cleaner			\$ 130.00			
	Transducer (ea)			\$ 40.00			
	Hand Drill			\$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	\$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	\$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	\$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	\$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	\$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	\$ 8.30					
	55-Gallon Drum	\$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	\$ 75.00					
	Well Cover 8X12"	\$ 105.00					
	Measuring Wheel			\$ 15.00			
	Camera			\$ 25.00			
1L Tedlar Bag	\$ 20.00						
HAZMAT Exemption Shipper	\$ 40.00						
Manometers	\$105.00						
Westlaw	\$105.00						
Cones, Baracades & Traffic Signs			\$ 10.00				
Safety	Gloves (Chemical Resistant)	\$ 10.00					
	Level "B": Level "C1" plus SCBA			\$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			\$ 85.00			
	Level "C2": Level "D" plus Respirator			\$ 40.00			
	Standby SCBA			\$ 130.00			
All routine Level D safety equip. and routine field equip.			\$ 130.00				
Production	1 Inch Binder	\$ 9.00					
	2 Inch Binder	\$ 12.00					
	3 Inch Binder	\$ 15.00					
	4 Inch Binder	\$ 22.00					
	Binder Tabs (Set of 8)	\$ 5.00					
	Color Copies	\$ 0.40					
	B/W Copies	\$ 0.25					
	Document - Format/Sending	\$ 15.00					
Report CD Copy	\$ 5.00						
						\$0.00	\$0.00
<b>PHASE TOTAL</b>							<b>\$2,460.00</b>

Site Name: Klinke Cleaners University Avenue, Madison  
 BRRTS #: 02-13-551964  
 Type of Action: Site Investigations

TASKS	BUDGET					Total Approved Budget	Previous Claims (If applicable)	INVOICES				
	Bid / Budgeted Amount	Change Order #1, 2/15/13	Change Order #2, 12/6/13	Change Order #3, 1/16/14	INSERT			EnviroForensics, 12751, 8/31/12	EnviroForensics, 12831, 9/30/12	EnviroForensics, 12899, 10/31/12	EnviroForensics, 12960, 11/30/12	
Consultant Costs												
Task	\$ -					\$ -						
Workplan Development (01a)	\$ 3,569.60					\$ 3,569.60		\$ 3,900.70	\$ -	\$ -	\$ -	\$ -
Groundwater Pathway Assessment (01b)	\$ 1,024.00					\$ 1,024.00		\$ 316.25	\$ 1,000.00	\$ -	\$ -	\$ -
Vapor Intrusion Pathway Assessment (01c)	\$ 1,022.50					\$ 1,022.50		\$ -	\$ 1,239.50	\$ -	\$ -	\$ -
Sub-Slab Soil Sampling (01d)	\$ 931.50					\$ 931.50		\$ -	\$ 688.75	\$ 292.50	\$ -	\$ -
Investigation Derived Media (IDM) Management (01e)	\$ 292.50					\$ 292.50		\$ -	\$ 65.00	\$ 97.50	\$ -	\$ -
Data Evaluation & Reporting (01f)	\$ 4,657.90					\$ 4,657.90		\$ -	\$ 127.50	\$ 1,007.50	\$ 2,212.50	\$ -
<b>Further Site Investigation (Phase 02)</b>												
Work Plan & Cost Estimate Development (02a)		\$ 4,019.50				\$ 4,019.50						
Off-site Access Agreements (02b)		\$ 2,252.40				\$ 2,252.40						
Vapor Intrusion Pathway Assessment (02c)		\$ 3,340.00	\$ 1,738.75			\$ 5,078.75						
Sub-slab Depressurization System (02d)		\$ 2,866.80				\$ 2,866.80						
Monitoring Well Installation & Sampling (02e)		\$ 2,737.00				\$ 2,737.00						
IDM Management (02f)		\$ 642.50				\$ 642.50						
Data Analysis & Reporting (02g)		\$ 3,979.00	\$ 280.00			\$ 4,259.00						
Project Management (02h)		\$ 1,990.00	\$ 215.00			\$ 2,205.00						
<b>Further Site Investigation (Phase 03)</b>												
Work Scope Development (03a)				\$ 732.00								
Site Investigation Report (03b)				\$ 4,760.50								
Case Closure Request (03c)				\$ 5,892.50								
Project Management (03d)				\$ 2,460.00								
						\$ -						
<b>Consultant Cost Total</b>	<b>\$ 11,498.00</b>	<b>\$ 21,827.20</b>	<b>\$ 2,233.75</b>	<b>\$ 13,845.00</b>	<b>\$ -</b>	<b>\$ 35,558.95</b>	<b>\$ -</b>	<b>\$ 4,216.95</b>	<b>\$ 3,120.75</b>	<b>\$ 1,397.50</b>	<b>\$ 2,212.50</b>	<b>\$ -</b>
<b>Sub-Contractor Costs</b>												
Drilling	\$ 657.00	\$ 2,634.00				\$ 3,291.00			\$ 439.00			
Analytical	\$ 1,817.00	\$ 4,408.50	\$ 1,000.00			\$ 7,225.50			\$ 855.00			
SSDS Installer		\$ 4,300.00				\$ 4,300.00						
Surveyor		\$ 750.00				\$ 750.00						
Private Utility Locator		\$ -				\$ -						
Waste Disposal		\$ 698.49				\$ 698.49						
						\$ -						
<b>Sub-Contractor Cost Total</b>	<b>\$ 2,474.00</b>	<b>\$ 12,790.99</b>	<b>\$ 1,000.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 16,264.99</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,294.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>DERF ELIGIBLE SUB-TOTALS</b>	<b>\$ 13,972.00</b>	<b>\$ 34,618.19</b>	<b>\$ 3,233.75</b>	<b>\$ 13,845.00</b>	<b>\$ -</b>	<b>\$ 51,823.94</b>	<b>\$ -</b>	<b>\$ 4,216.95</b>	<b>\$ 4,414.75</b>	<b>\$ 1,397.50</b>	<b>\$ 2,212.50</b>	<b>\$ -</b>
<b>Non-DERF Eligible Expenses</b>												
<b>Non-DERF Cost Total</b>								<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>INVOICE GRAND TOTAL</b>								<b>\$ -</b>	<b>\$ 4,216.95</b>	<b>\$ 4,414.75</b>	<b>\$ 1,397.50</b>	<b>\$ 2,212.50</b>

**Check Numbers**



EnviroForensics, 13034, 12/31/12	EnviroForensics, 13244, 2/28/13	EnviroForensics, 13348, 3/31/13	EnviroForensics, 13442, 4/30/13	EnviroForensics, 13528, 5/31/2013	EnviroForensics, 13562, 6/30/2013	EnviroForensics, 13659, 7/31/2013	EnviroForensics, 13797, 8/31/2013	EnviroForensics, 13820, 9/30/2013	EnviroForensics, 13956, 10/31/2013	EnviroForensics, 14016, 11/30/2013	EnviroForensics, 14078, 12/31/2013	INSERT	Total Invoiced Costs
													\$ -
\$ -													\$ 3,900.70
\$ -													\$ 1,316.25
\$ -													\$ 1,239.50
\$ -													\$ 981.25
\$ -													\$ 162.50
\$ 422.50													\$ 3,770.00
	\$ 2,730.00	\$ 1,275.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 4,005.00
	\$ -	\$ 422.50	\$ 619.10	\$ 455.00	\$ 682.50	\$ 199.50	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 2,378.60
	\$ -	\$ -	\$ 97.50	\$ 2,741.50	\$ 97.50	\$ -	\$ 797.40	\$ -	\$ 325.00	\$ 900.10	\$ 32.50		\$ 4,991.50
	\$ -	\$ -	\$ 357.50	\$ 2,047.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 2,405.00
	\$ -	\$ -	\$ 227.50	\$ 1,573.75	\$ 217.50	\$ 302.50	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 2,321.25
	\$ -	\$ -	\$ -	\$ 95.00	\$ 292.50	\$ 370.80	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 758.30
	\$ -	\$ -	\$ -	\$ -	\$ 3,050.30	\$ 1,308.27	\$ -	\$ 65.00	\$ -	\$ 227.50	\$ 260.00		\$ 4,911.07
	\$ -	\$ 357.50	\$ 552.50	\$ 512.50	\$ 372.50	\$ 331.50	\$ 255.50	\$ 65.00	\$ -	\$ 260.00	\$ 167.30		\$ 2,874.30
\$ 422.50	\$ 2,730.00	\$ 2,055.00	\$ 1,854.10	\$ 7,425.25	\$ 4,712.80	\$ 2,512.57	\$ 1,052.90	\$ 130.00	\$ 325.00	\$ 1,387.60	\$ 459.80		\$ 36,015.22
				\$ 2,775.00									\$ 3,214.00
				\$ 2,480.00			\$ 390.00		\$ 250.00	\$ 730.00			\$ 4,705.00
				\$ 5,530.00									\$ 5,530.00
						\$ 685.00							\$ 685.00
				\$ 350.00									\$ 350.00
						\$ 698.49							\$ 698.49
\$ -	\$ -	\$ -	\$ -	\$ 11,135.00	\$ -	\$ 1,383.49	\$ 390.00	\$ -	\$ 250.00	\$ 730.00	\$ -		\$ 15,182.49
\$ 422.50	\$ 2,730.00	\$ 2,055.00	\$ 1,854.10	\$ 18,560.25	\$ 4,712.80	\$ 3,896.06	\$ 1,442.90	\$ 130.00	\$ 575.00	\$ 2,117.60	\$ 459.80	##	\$ 51,197.71





**Dry Cleaner Environmental Response Program  
Reimbursement Cost Detail Linking Spreadsheet Form 4400-214D (R 08/12)**

DERF COST BREAKOUT (this claim)								Budget Remaining Use (-) to indicate cost over-run	% Task Complete, Remarks
A Soil Investigation	B Soil Remediation	C Groundwater Investigation	D Groundwater Remediation	E Air/Vapor Investigation	F Air/Vapor Remediation	G Lab & Other Analysis	H Miscellaneous Costs		
								\$ -	Task % Complete
\$ 1,300.70		\$ 1,300.00		\$ 1,300.00				\$ (331.10)	100
\$ 1,316.25								\$ (292.25)	100
				\$ 1,239.50				\$ (217.00)	100
\$ 981.25								\$ (49.75)	100
\$ 162.50								\$ 130.00	100
\$ 2,500.00				\$ 1,270.00				\$ 887.90	100
		\$ 1,500.00		\$ 2,505.00				\$ 14.50	100
				\$ 2,378.60				\$ (126.20)	100
				\$ 4,991.50				\$ 87.25	100
				\$ 2,405.00				\$ 461.80	100
		\$ 2,321.25						\$ 415.75	100
\$ 158.30		\$ 600.00						\$ (115.80)	100
		\$ 500.00		\$ 4,411.07				\$ (652.07)	100
		\$ 500.00		\$ 2,374.30				\$ (669.30)	100
								\$ (456.27)	
\$ 439.00		\$ 2,775.00						\$ 77.00	
				\$ 5,530.00		\$ 4,705.00		\$ 2,520.50	
\$ 185.00		\$ 500.00						\$ (1,230.00)	
		\$ 350.00						\$ 65.00	
\$ 100.00		\$ 598.49						\$ (350.00)	
								\$ -	
								\$ 1,082.50	
<b>\$ 7,143.00</b>	<b>\$ -</b>	<b>\$ 10,944.74</b>	<b>\$ -</b>	<b>\$ 28,404.97</b>	<b>\$ -</b>	<b>\$ 4,705.00</b>	<b>\$ -</b>	<b>\$ 626.23</b>	

Total DERF Eligible Costs This Claim      \$ 51,197.71

## Walden, James E - DNR

---

**From:** Brian Kappen <BKappen@enviroforensics.com>  
**Sent:** Monday, December 16, 2013 2:44 PM  
**To:** Walden, James E - DNR  
**Cc:** Wayne Fassbender  
**Subject:** FW: 02-13-551964 Klinke - Campus Vapor Intrusion Results  
**Attachments:** 2013-291 Results+COC.pdf; 2013-358 Results+COC.pdf; 2013-391 Results+COC.pdf; Klinke - Campus Vapor Intrusion Sample Results Summary.pdf

Jim,

EnviroForensics recently completed confirmation air sampling at the Klinke Cleaners location at 2875 University Ave in Madison. The air samples were collected from the Klinke Cleaners space and an adjoining tenant space (2871 University Ave) currently occupied by Ancora Café. The sampling was conducted to confirm concentrations of trichloroethylene (TCE) in indoor air detected in previous samples. The samples were collected on November 20, 2013.

A summary table of vapor intrusion sample results is attached, along with associated analytical reports. TCE was present in indoor air at the Klinke Cleaners space at a concentration similar to that detected in the initial sample. No compounds of concern were detected in the indoor air sample collected from Ancora Café.

The site owner reported that all TCE-containing chemicals had been removed from the building prior to the November 20, 2013 sampling event. The continuing source of TCE in indoor air is unknown. A sub-slab depressurization system has been operating at the building since May 3, 2013.

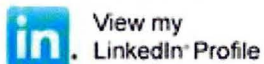
Based on the results of the site investigation to date, EnviroForensics recommends proceeding with preparation of an NR 716 Site Investigation Report and pursuing case closure for the site. EnviroForensics also recommends that indoor air monitoring be repeated during the winter months.

Regards,

**Brian Kappen, P.G.**  
Project Manager

EnviroForensics | N16 W23390 Stone Ridge Drive, Suite G | Waukesha, WI 53188  
P. 414.326.4412 | C. 262.745.5054 | F. 317.972.7875  
[www.enviroforensics.com](http://www.enviroforensics.com)

*Turning Environmental Liabilities Into Assets®*



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**From:** Brian Kappen  
**Sent:** Monday, December 16, 2013 9:29 AM  
**To:** Wayne Fassbender  
**Subject:** 02-13-551964 Klinke - Campus Vapor Intrusion Results

Wayne, please review this draft email to J. Walden:

Jim,

EnviroForensics recently completed confirmation air sampling at the Klinke Cleaners location at 2875 University Ave in Madison. The air samples were collected from the Klinke Cleaners space and an adjoining tenant space (2871 University Ave) currently occupied by Ancora Café. The sampling was conducted to confirm concentrations of trichloroethylene (TCE) in indoor air detected in previous samples. The samples were collected on November 20, 2013.

A summary table of vapor intrusion sample results is attached, along with associated analytical reports. TCE was present in indoor air at the Klinke Cleaners space at a concentration similar to that detected in the initial sample. No compounds of concern were detected in the indoor air sample collected from Ancora Café.

The results of the confirmation air sampling indicate that:

1. There is an indoor air source of TCE in the Klinke Cleaners space that has not been identified.
2. The sub-slab depressurization system as installed is mitigating vapor intrusion risk to both building spaces.

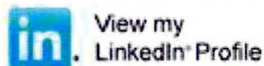
Based on the results of the site investigation to date, EnviroForensics recommends that an NR 716 Site Investigation Report be prepared and submitted to WDNR for review.

Regards,

**Brian Kappen, P.G.**  
Project Manager

EnviroForensics | N16 W23390 Stone Ridge Drive, Suite G | Waukesha, WI 53188  
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**Table 1**  
**Summary of Vapor Intrusion Sample Results**  
 Klinke Cleaners - Campus  
 Madison, Wisconsin

Sample Address	Sample Identification	Sample Location	Applicable Criteria	Sample Date	Tetrachloroethylene	Trichloroethylene	Dichlorodifluoromethane
<b>Sub-Slab Vapor Samples</b>							
<b>Vapor Risk Screening Level<sup>1</sup></b>					<b>270</b>	<b>16</b>	<b>880</b>
2875 University Ave	6272-SSV-1	Klinke Cleaners	Non-Residential	9/20/2012	<b>300</b>	<b>830</b>	<b>27</b>
2875 University Ave	6272-SSV-2	Klinke Cleaners	Non-Residential	9/20/2012	<b>64</b>	<b>2.6</b>	<b>5.1</b>
2875 University Ave	6272-SSDS STACK	Klinke Cleaners	Non-Residential	11/20/2013	<b>2.28</b>	<b>1.19</b>	NA
<b>Indoor/Outdoor Air Samples</b>							
<b>Vapor Action Level<sup>1</sup></b>					<b>27</b>	<b>1.6</b>	<b>88</b>
2875 University Ave	6272-2875 UNIV-OA	Outdoor	Non-Residential	8/21/2013	<0.46	<0.20	NA
2875 University Ave	6272-2875 UNIV-OA	Outdoor	Non-Residential	11/20/2013	<0.47	<0.20	NA
2875 University Ave	6272-2875 UNIV-IA	Klinke Cleaners	Non-Residential	8/21/2013	<0.46	<b>16.1</b>	NA
2875 University Ave	6272-2875 UNIV-IA	Klinke Cleaners	Non-Residential	11/20/2013	<b>0.88</b>	<b>15.6</b>	NA
2871 University Ave	6272-2871-IA	Ancora Café	Non-Residential	10/8/2013	<0.46	<b>2.2</b>	<9.8
2871 University Ave	6272-2871-IA	Ancora Café	Non-Residential	11/20/2013	<0.47	<0.2	<9.8

**Notes:**

<sup>1</sup> The Vapor Risk Screening Levels and Vapor Action Levels were calculated in accordance with WDNR Publication RR-800

All concentrations reported in units in parts per billion by volume (ppbv)

NA = Not Analyzed

**Bolded** values exceed laboratory detection limits

**Bolded** and shaded values exceed the Vapor Risk Screening Level or Vapor Action Level