From: Mallory Burlingame < msb@hallingcayo.com > Sent: Wednesday, February 14, 2024 2:07 PM

To: Lester, Lawrence J - DNR < Lawrence.Lester@wisconsin.gov >

Cc: Ted Warpinski < taw@hallingcayo.com >; Andy Skwierawski < mas@hallingcayo.com >; Nicholas Hill

<nhill@enviroforensics.com>; Wayne Fassbender <wfassbender@enviroforensics.com>

Subject: Request for Variance From Consultant / BRTTS#02-11-512824

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Good Afternoon,

Attached please find correspondence from Attorney Andy Skwierawski dated February 14, 2024, regarding the above-referenced matter.

Thank you, Mallory



Mallory S. Burlingame Legal Assistant **HALLING & CAYO, S.C.** 320 E. Buffalo Street, Suite 700 Milwaukee, WI 53202

(414) 271-3400 (414) 271-3841 Facsimile

www.hallingcayo.com

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January 4, 2022

David Bieno
Portage Cleaners
104 East Wisconsin Street
Portage, Wisconsin 53901

Subject: SVE System Design Report

Portage Cleaners 104 East Wisconsin Street Portage, Wisconsin 53901

BRRTS # 02-11-512824

EnviroForensics Project No: 6493

Dear Mr. Bieno:

EnviroForensics, LLC (EnviroForensics) is pleased to submit this Work Scope and Cost Estimate for the installation, startup, and one (1) year of operation, maintenance, and monitoring (OMM) for a Soil Vapor Extraction (SVE) remediation system at the Portage Cleaners property located at 101 East Wisconsin Street, Portage, Wisconsin (Site). As detailed in EnviroForensics' *Source Area Remediation Work Scope and Cost Estimate*, dated September 9, 2019, SVE implementation is deemed an appropriate, cost-effective remedial option at the Site and is likely to be highly effective in the closed conditions of the building with raised foundations, deep footers, and slab cover.

1.0 SVE INSTALLATION AND START UP

SVE technology will be used to remediate vadose zone soil impacts beneath and around the Site building. The primary objective of SVE is to remove contaminant mass from vadose zone soil to concentrations that no longer pose a risk of vapor intrusion to the Site building.

The following sections describe the SVE system design, OMM activities, and performance monitoring program.



1.1 Permitting

Construction and operation permits apply to remediation systems that emit contaminants under Wisconsin Administrative Code (WAC) Chapters NR 406 and 407, respectively. The following permitting thresholds apply to remediation systems, regardless of whether or not emissions control devices are used:

- Total volatile organic compound emissions greater than 5.7 pounds per hour (lb/hr) [NR 406.04(1)(m)2]; and
- Assuming a stack height less than 25 feet, tetrachloroethene (PCE) emissions greater than 9.11 lb/hr or 301 pounds per year (lb/yr) [NR 407.03(1)(sm)].

EnviroForensics anticipates that the SVE system will be exempt from permitting requirements, however, the SVE system is designed so that carbon treatment can be easily added if necessary to reduce the concentrations of chlorinated volatile organic compounds (CVOCs) to below the permit thresholds.

Ambient air quality criteria defined in WAC Chapter NR 445.07 also apply to remediation systems. For example, the concentration of PCE must be less than 4,069 μ g/m³ in ambient air while the SVE system is operating. The monitoring program designed to ensure compliance with all emissions and air quality standards is described in Section 1.3.

1.2 Infrastructure Installation

The extraction wells and piping locations are depicted on **Figure 1**. Two (2) extraction wells will be installed as shown on **Figure 1**. Each extraction well is anticipated to produce an effective radius of influence of at least 15 feet with negative pressure equal to, or exceeding, 0.1 inches of water (inH₂O). The system is equipped with individual conveyance line valves that can be adjusted to distribute vacuum in variable subsurface conditions as needed.

The new extraction wells will be constructed of 4-inch diameter schedule 40 polyvinyl chloride (PVC) with 0.020-slotted screen installed from 1.5 to 4.5 feet bgs. The extraction wells will be connected to the SVE blower equipment with 4-inch diameter PVC piping anchored to the inside wall of the Site building. The PVC piping will be extended to the SVE equipment enclosure located just outside the Site building along the south wall. **Figure 2** presents an SVE well construction diagram.



1.3 SVE Mechanical System

Below is a summary of system equipment. A process and instrumentation diagram is included as **Figure 3**.

- Regenerative vacuum blower capable of providing up to 150 actual cubic feet per minute of air and applying vacuum up to approximately 4 inches of mercury.
 - o The blower will be powered by a 5Hp 3-phase, electric motor.
- <u>A pressure relief valve</u> assembly shall be installed to protect the blower by automatically reducing the applied vacuum at the blower.
- <u>Vacuum dilution valve</u> assembly with an intake air filter installed between the moisture separator and vacuum pump to reduce the vacuum applied to the extraction well network.
- A particulate air filter installed in the process plumbing between the moisture separator and vacuum extraction pump to protect the vacuum extraction pump from suspended particles in the inlet air flow.
- <u>A moisture separator</u> (30-gallon) to remove and contain moisture from the air stream prior to the vacuum extraction pump.
 - A float tree assembly will be installed on the moisture separator to automatically shut down the blower after sufficient moisture accumulation.
 - Moisture will likely contain contaminants, so liquid collected will be analyzed by a Wisconsin Certified Analytical Laboratory and managed according to State regulations.
- The remediation system controls shall include the following.
 - Low vacuum switch
- The remediation system instrumentation shall include the following.
 - A differential pressure gauge for calculating airflow (inH₂O)
 - Vacuum gauges at each extraction leg on the manifold (inH₂O)
 - Vacuum gauge at the blower (inH₂O)
 - Temperate gauge on the SVE exhaust (°F)



• <u>System Telemetry</u> will be utilized to monitor system operating conditions and receive alerts.

Electrical Service

- Power will be supplied to the system through a stand-alone power supply from the local power company.
 - The anticipated power supply is 3 phase, 4-wire, 208-volt service.
- A licensed electrician will perform the work necessary to prepare the Site to receive a power drop from the local power company.
- Upon installation, the electrical service will be inspected by the City of Portage and the local power provider, as required.
- The system equipment will be mounted within an enclosed insulated skid to be located outside along the southern wall of the building as shown on **Figure 1**.
- SVE Plumbing Connections
 - The conveyance piping will be plumbed to a manifold outside the remediation unit and the manifold will be connected to the vacuum pump.
 - Each branch from the SVE manifold will be equipped with a vacuum gauge and valve to control airflow from each extraction well.

1.4 Commissioning and Initial Startup

Once the remediation unit has been delivered, all plumbing connections have been made, and electrical service has been established, the system will be started. The objectives of the startup and optimization phase will be to:

- confirm the system has been constructed as designed;
- confirm the equipment operates as specified; and
- collect and evaluate initial operating data.

2.0 SVE SYSTEM OPERATION AND MAINTENANCE

For costing purposes, the SVE system is anticipated to operate for a period of one (1) year. The SVE system will be operated continuously for the first two (2) months of operation to satisfy air emissions monitoring requirements and to determine sustained mass removal rates. After the first two (2) months, the system may be operated intermittently allowing vapors to accumulate



within the subsurface during the period of inactivity. The intermittent operation may be two (2) weeks on, followed by two (2) weeks off. Operating in this fashion will conserve power costs.

Routine and periodic OMM of the SVE system will be required. OMM activities will include the following:

- Address system shutdowns or operational issues;
- Record operational parameters and vapor concentrations to evaluate efficiency:
 - o Effluent CVOC vapor concentration by sample collection in vacuum canisters;
 - Total system run time;
 - System vacuum;
 - Vacuum at each wellhead;
 - Vacuum at monitoring points;
 - Flow rate; and
 - Exhaust temperature.
- Inspect, maintain, and/or repair the following components as needed and recommended by the manufacturers:
 - Blower belts and pulleys;
 - Blower inlet filter;
 - Blower motor bearings and oil level;
 - System enclosure exhaust fan;
 - Moisture separator tank and float switches;
 - Vacuum bypass valve;
 - Moisture separator dilution valve;
 - o Exhaust muffler; and
 - Electrical power phase converter.

EnviroForensics will prepare and submit an OMM Plan to Wisconsin Department of Natural Resources (WDNR) in accordance with WAC Chapter NR 724.13 after the system has been installed.

2.1 SVE Performance Monitoring

The effectiveness of the SVE system will be evaluated periodically by monitoring the subsurface vacuum influence and air emissions of total CVOCs. These activities are summarized below.



Samples of the SVE system emissions will be collected from the effluent piping and analyzed for CVOCs to calculate mass removal rates and cumulative mass removed and to determine operational changes to optimize system performance. Testing is also required to determine whether emissions treatment is required to stay below permitting thresholds. The emissions testing schedule required under WAC Chapter 419.07 is as follows:

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

The effluent samples will be collected in 1-liter vacuum canisters at a rate of 200 milliliters per minute and submitted to a laboratory for analysis for PCE and related compounds. The first two samples, collected on days 1 and 2 of operation, will be analyzed on a rush timeframe to avoid delays in meeting the emissions thresholds.

An annual outdoor air sample is required to evaluate ambient air quality and the need for emissions treatment to meet the ambient air standard. The sample will be collected from a location downwind of the exhaust stack at the time of sampling. The ambient air sample will be collected following the first day of continuous system operation. This is likely the worst-case scenario since subsurface vapor concentrations collected by the SVE system will be reduced over time. One (1) 24-hour sample will be collected using a 6-liter vacuum canister and shipped to a laboratory for analysis of total CVOCs.

Two additional permanent sub-slab vapor monitoring points will be installed within the Site building as indicated on **Figure 1** to measure the negative pressure field extension beneath the building slab.

2.2 Confirmation Sampling

Once performance monitoring data indicates a significantly diminished mass removal rate, or after one (1) year of operation, the SVE system will be shut down for at least 30 days to allow the subsurface to reach equilibrium and sub-slab vapor samples will be collected at the Site building to determine the concentrations of residual impacts and confirm the effectiveness of the SVE remedy. Two (2) sub-slab vapor samples will be collected from the Site building and analyzed via EPA Method TO-15 for the dry cleaner list of CVOCs.



EnviroForensics will then provide recommendations for system decommissioning or a proposed timeframe for continued operation, maintenance, and monitoring. If additional remediation is warranted, a change order will be issued to cover the anticipated duration of system operation.

3.0 ANNUAL GROUNDWATER MONITORING

Due to an already extensive data set, the Site is proposed for annual sampling only as remedial activities are completed.

3.1 2022 Groundwater Monitoring and Reporting

The current monitoring network consists of 11 water table wells (MW-1 through MW-11) and two (2) piezometers (MW-4P and MW-10P) to monitor the groundwater plume emanating from the Site. The well locations are depicted on **Figure 4**.

Prior to sampling, well caps will be removed at least 15 minutes prior to measurement to allow equilibration with atmospheric pressure. The depth to water in each well at the site will be measured to the nearest 0.01 foot. Monitoring well sampling will be completed using low flow (minimal drawdown) groundwater sampling procedures. The procedure involves low volume groundwater purging rates while maintaining minimal drawdown, typically less than 0.1 meters.

EnviroForensics will employ a submersible pump to evacuate water from the screened portion of the well to a water quality probe with flow-through cell apparatus. The water quality probe measures groundwater geochemical parameters: pH, oxidation-reduction potential (ORP), specific conductivity, temperature, turbidity, and dissolved oxygen. Water quality parameters will be monitored throughout purging to verify stabilization prior to groundwater sample collection. Equipment will be calibrated prior to use. Data collected during the sampling activities will be documented on sampling logs and presented in the semi-annual reports.

Groundwater samples will be collected directly into laboratory provided containers with hydrochloric acid preservative and immediately placed into a cooler containing ice. Groundwater samples will be submitted to a state-certified laboratory for analysis of volatile organic compounds (VOCs) according to U.S. Environmental Protection Agency (EPA) Method SW-846 8260B. Proper chain-of-custody documentation will be maintained throughout the process.



One (1) duplicate sample and one (1) equipment blank sample will be collected for every ten (10) or fewer investigative samples. One (1) trip blank sample will be analyzed per sample cooler for quality assurance and quality control (QA/QC) purposes.

3.2 Annual Reporting

EnviroForensics will evaluate groundwater monitoring data annually. The groundwater elevations and contaminant concentrations will be compared to historical monitoring data to identify unexpected or anomalous results. The submittal will be developed to document the results of the sampling events to keep the WDNR updated regarding site activities. Appropriate tables, maps, figures, and appendices will be updated and provided, as needed, to aid data presentations and interpretation and the findings of the investigation as outlined in the WDNR guidelines.

3.3 Investigation Derived Media Management

Groundwater and decontamination fluids generated during monitoring well purging will be placed in 55-gallon steel drums. As with previous monitoring events, all purge water will be transported to the City of Portage Wastewater Treatment Plant is discharged as a non-hazardous material.

4.0 PROPOSED IMPLEMENTATION SCHEDULE

The SVE system will need to be disconnected and transported from a location in Wisconsin, and that process is anticipated to take 3 weeks upon WDNR approval of this design report. Installation of the extraction wells and conveyance piping can be completed within a few days of upon delivery of the SVE system to the Site. The timing of system startup will depend on the availability of electrical service; however, it is anticipated that startup will occur within 90 days of WDNR approval of this design report. Construction documentation will be submitted within 60 days after the remedial system construction is completed. Operation and monitoring reports will be submitted on a semi-annual basis, as required.

5.0 COST ESTIMATES

Costs are based on an initial estimated SVE system operating life of one (1) year. WDNR Form 4400-214D has been completed to allow budget tracking of this work and is included in **Appendix A**. Subcontracted services including SVE use fees, installation costs, laboratory



expenses, and utility service charges are actual charges with no markup. The costs are subdivided into these main work categories:

- Costs to install SVE system infrastructure such as SVE extraction wells, conveyance piping, electrical connections, telemetry and make connections to the SVE mechanical system;
- Anticipated costs for electrical usage for one (1) year and fees for use of the SVE;
- Initial startup and preparation of OMM Plan, exhaust sampling and SVE system OMM for one (1) year;
- Data analysis and bi-annual performance reporting (2 remedial progress reports);
- Annual groundwater monitoring;
- One (1) year post operation sub-slab vapor confirmation sampling; and
- Project coordination and management during design engineering, system installation, and carrying through one (1) year of system operation, maintenance, and reporting.

The SVE system costs including design, installation, OMM, monitoring, and reporting through one (1) year of operation are summarized below. Detailed cost breakdown sheets showing special DERF rates are provided in **Appendix B**. The following table outlines the tasks and cost summary:

TASK	LABOR COSTS	SUB-CONTRACTOR COSTS	DIRECT COSTS	TOTAL COST
Phase C101a				
SVE System and Infrastructure Installation	\$10,220.00	\$9,786.12	\$3,658.20	\$23,664.32
Phase #101	b			
SVE System O&M for 12 Months	\$4,360.00	\$10,210.00	\$11,730.80	\$26,300.80
Phase #101	c			
Data Analysis and Bi-annual Performance Reporting	\$8,780.00	\$0.00	\$37.30	\$8,817.30
Phase C101d				
Annual Groundwater Monitoring and Reporting	\$6,917.00	\$1,546.86	\$2,019.40	\$10,483.26
Phase #101	e			
Confirmation Sampling and Results Reporting	\$2,525.00	\$270.00	\$379.00	\$3,174.00
Phase C101f				
Project Management (through install and one year O&M)	\$6,200.00	\$0.00	\$16.80	\$6,216.80
TOTAL	\$39,002	\$21,813	\$17,842	\$78,656



Certain limitations and circumstances encountered during the implementation of this Work Scope may result in the need for additional work activities and/or additional costs incurred. In these situations, EnviroForensics will contact you via telephone to discuss the issue or to leave a voicemail with a summary. A written Change Order summarizing the additional required work activities and/or estimated costs will then be issued, if warranted, and submitted via email.

We appreciate the opportunity to provide you this with this Work Scope and Cost Estimate. Please contact us at 262-290-4001 should you have any questions.

Sincerely,

EnviroForensics, LLC

R. Scott Powell, P.E., LPG

R. Scott Powell

Senior Engineer

Rob Hoverman, PG

Senior Project Manager

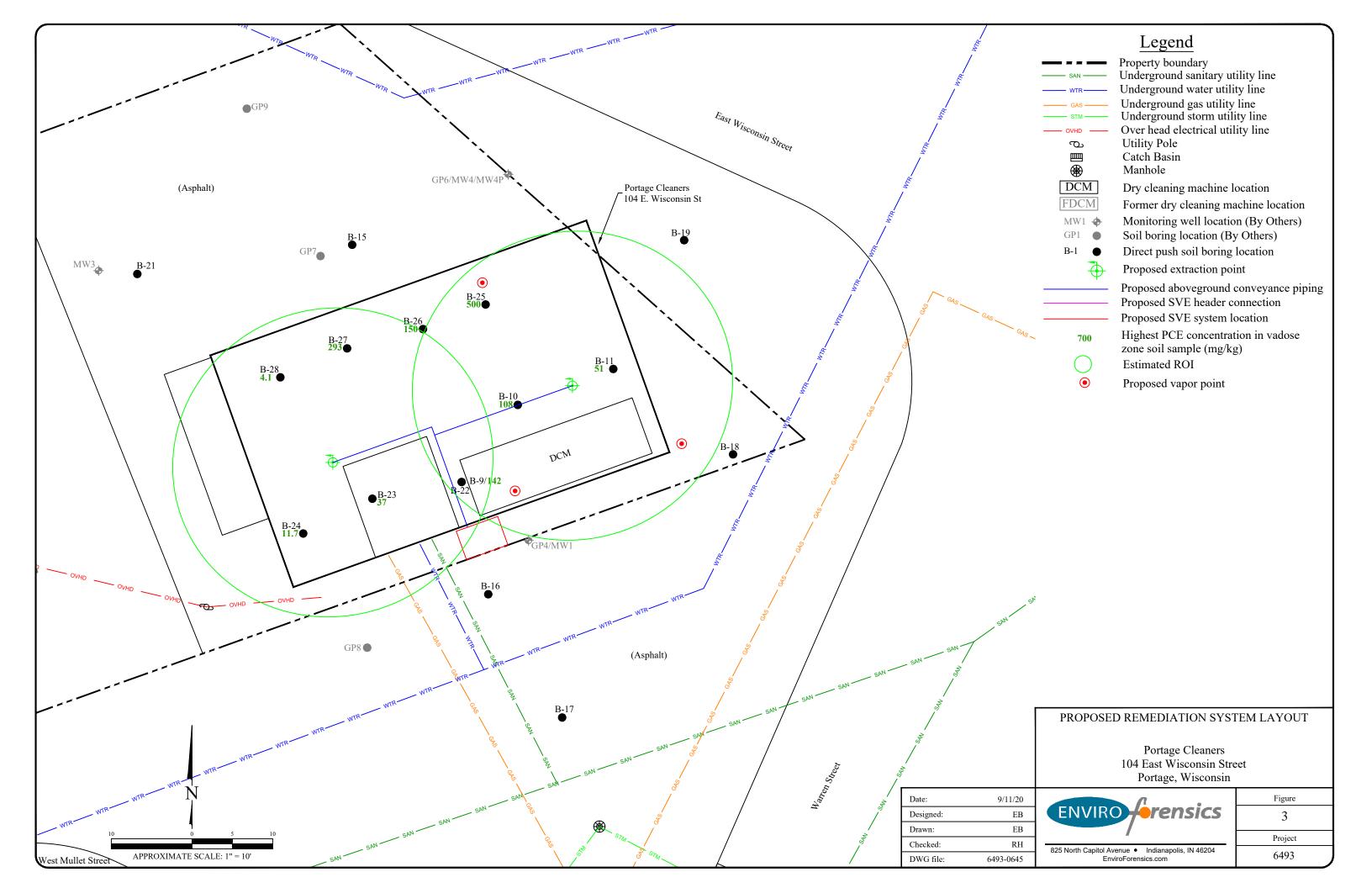
FIGURES

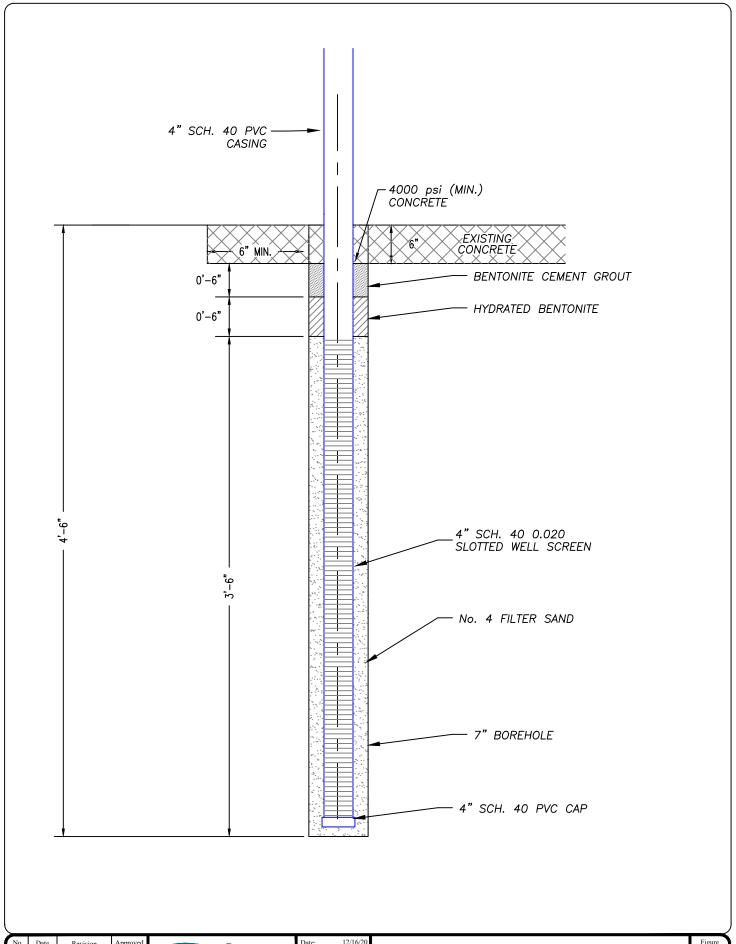
- 1 Proposed Remediation System Layout
- 2 SVE Wellhead Construction Diagram
- 3 Process and Instrumentation Diagram
- 4 Monitoring Well Location Map

APPENDICES

Appendix A WDNR Form 4400-214D

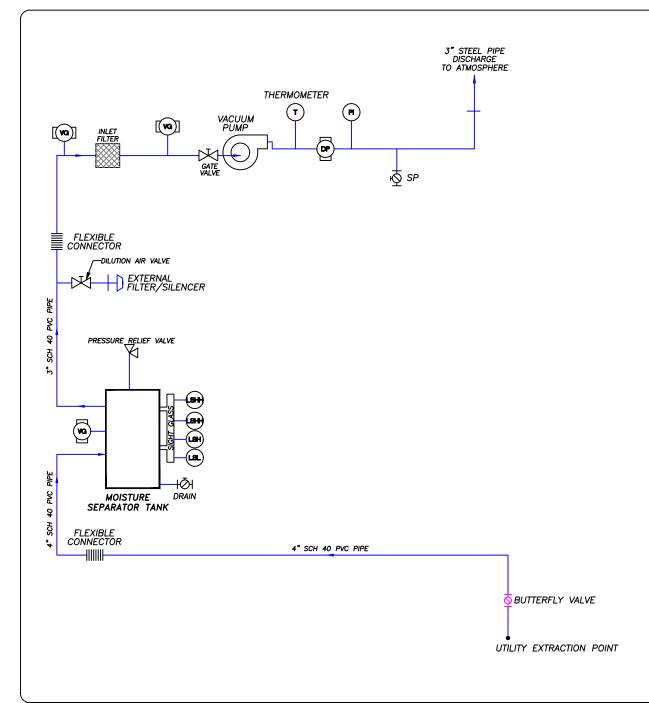
Appendix B Detailed Cost Breakdown Sheets





No.	Date	Revision	Approved	///
				ENVIRO Herensics
				825 North Capitol Avenue Indianapolis. IN 46204
				EnviroForensics.com

1	Date:	12/16/20
	Designed:	EB
	Drawn:	EB
	Checked:	BK
	DWG file:	6493-0736



ABBREVIATIONS

DP	DIFFERENTIAL PRESSURE	М	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	
1/1	CURRENT-TO-CURRENT	SG	SIGHT GLA	SS
I/P	CURRENT-TO-	SP	SAMPLING	PORT
	PNEUMATIC	UA	UNIVERSAL	ALARM
KC	PROGRAM CONTROLLER	FMT	FLOW MET	ER TOTALIZER
LC	LEVEL CONTROLLER	AFM	AIR FLOW	METER
LEL	LOWER EXPLOSIVE LIMIT			
LR	LOCAL-REMOTE			
LS	LEVEL SENSOR			
LSHH)	LIQUID SWITCH			
LSL }	HIGH / LOW			
LSH /	, 2011			
	VALVE AND DU	DINIC	CVMDA	C

VALVE AND PIPING SYMBOLS

₩ GATE VALVE

SOLENOID VALVE

Z CHECK VALVE

⊘ BALL VALVE

SAMPLING PORT

EXHAUST TO ATMOSPHERE (INSIDE)

EXHAUST TO ATMOSPHERE (OUTSIDE)

PRESSURE RELIEF VALVE

VACUUM GAUGE

EQUIPMENT SYMBOLS



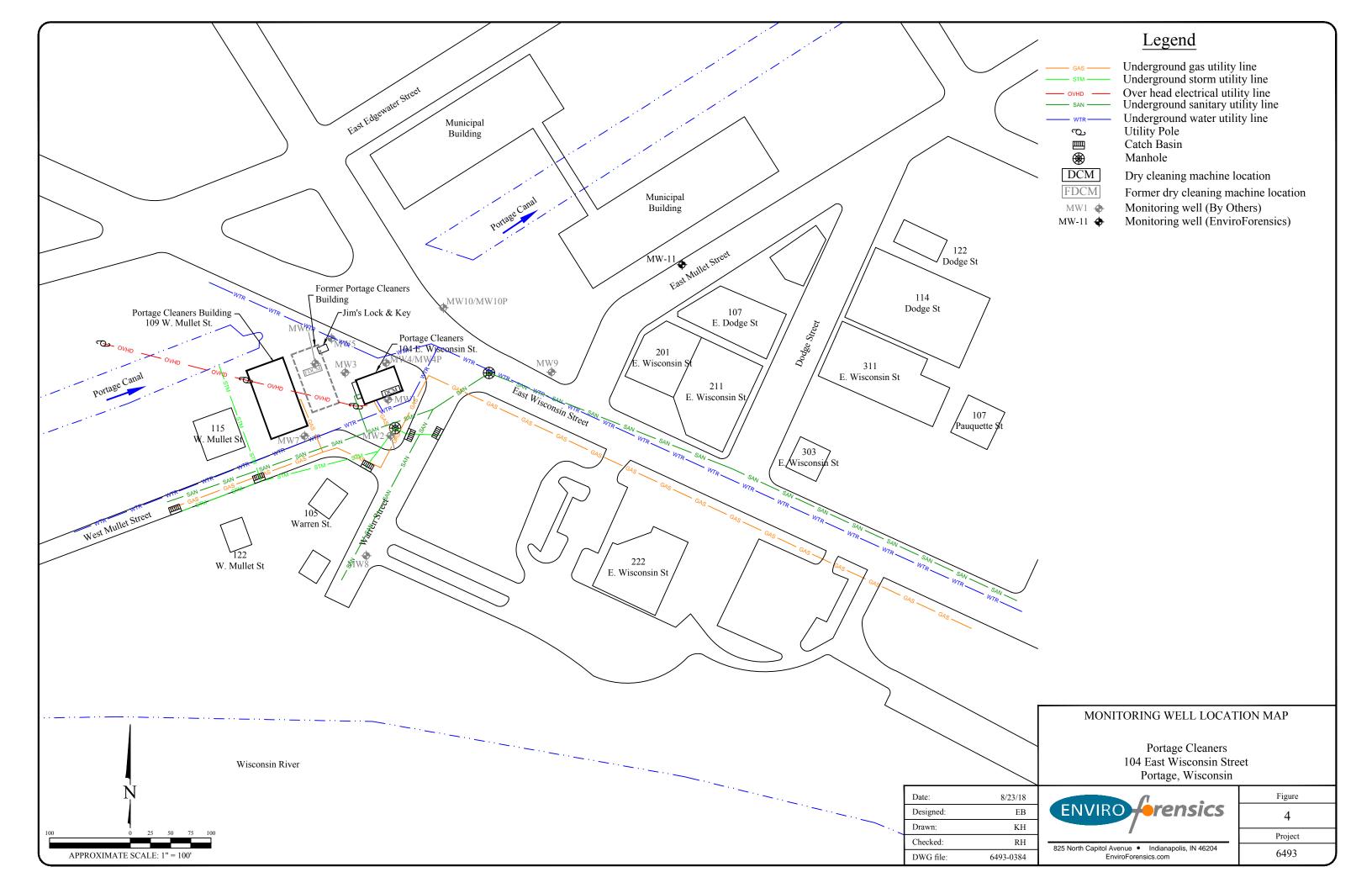
PUMP

BLOWER





	Date:	12/16/20
,	Designed:	EB
	Drawn:	EB
	Checked:	BK
	DWG file:	6493-0736





APPENDIX A

WDNR Form 4400-214D



APPENDIX B

Detailed Cost Breakdown Sheets

Project Title:	
Project Number/Name:	
Date:	

OHM - Wauwatosa	
5140	
12/22/2022	



Labor		Price	Unit	# Units		Subtotal	Task
Director Technical Services	s	175.00	hr	# Units		\$0.00	IdSK
Sr Engineer	\$	175.00	hr	8.0		\$1,240.00	
Sr Professional	s	155.00	hr	8.0		\$1,240.00	
Project Manager	s	130.00	hr	8.0		\$0.00	
Project Professional	s	130.00	hr	+		\$0.00	
Staff Professional	s	120.00	hr	36.0		\$4,320.00	
Field Professional	s	95.00	hr	36.0		\$3,420.00	
Health and Safety Specialist	Š	130.00	hr	30.0		\$0.00	
Treattriand Safety Specialist		130.00	hr			\$0.00	
L	l	ı		ı	l	\$10,220.00	\$10,2
Contractors/Consultants		Price	Unit	# Units	Markup	Subtotal	Task
Drum	Ś	100.00	LS	1.0	1.00	\$100.00	
Driller/Contractor	Ś	3.093.12	LS	1.0	1.00	\$3.093.12	
Electrical Contractor for Supply and Connections	Ś	3,593.00	LS	1.0	1.00	\$3,593.00	
SVE Delivery	Ś	2,000.00	LS	1.0	1.00	\$2,000.00	
Telemetry Unit	Ś	1,000.00	LS	1.0	1.00	\$1,000.00	
		,		•		\$9,786.12	\$9,78
relement y offic							
reemety ont							
Direct Costs - Expenses		Price	Unit	# Units	Markup	Subtotal	
	s	Price 130.00	Unit day	# Units 2.0	Markup 1.00	Subtotal \$260.00	
Direct Costs - Expenses	\$ \$						
Direct Costs - Expenses Hotel		130.00	day	2.0	1.00	\$260.00	
Direct Costs - Expenses Hotel Meals	\$	130.00 65.00	day day	2.0 3.0	1.00 1.00	\$260.00 \$195.00	

	Direct Costs - Chargeable Equipment Expense		Rate (hr/unit)	# Hrs/Units	(d	Rate lay/use)	# da	ıys/use	Sı	ıbtotal	
	Field Vehicle - Full Day	\$	20.00		\$	130.00	\$	8.00	\$	1,040.00	
Vehicles	Support Vehicle - Full Day	\$	30.00		\$	180.00			\$		
	Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles)	\$	0.545						\$		
	Hand Auger				\$	30.00		1	\$	30.00	
	Helium QA/QC Kit				\$	265.00			\$		
Other	Helium QA/QC Accessories	\$	20.00						\$		
Other	Oil/Water Interface Probe				\$	105.00			\$		
	Padlocks	\$	15.00	3					\$	45.00	
	Coring Machine				\$	200.00		1	\$	200.00	
Safety	Gloves (Chemical Resistant)	\$	10.00	1					\$	10.00	
Sarety	Routine Field and Safety Equipment				\$	50.00	\$	3.00	\$	150.00	
Production	Binder Tabs (Set of 8)	\$	5.00						\$	-	
rioudction	Color Copies	\$	0.40	8					\$	3.20	
									\$	1,478.20	\$1,478.20
	PHASE TO	ΓAL									\$23,664.32

OHM - Wauwa	itosa
6140	
12/22/2022	



	Phase C101b	ove system (JOHN TOT 12 IV	10111113		
Labor	Price	Unit	# Units		Subtotal	Task 1
Director Technical Services	\$ 175.00	hr			\$0.00	
Sr Engineer	\$ 155.00	hr	6.0		\$930.00	
Sr Professional	\$ 155.00	hr	10.0		\$1,550.00	
Project Manager	\$ 130.00	hr	2.0		\$260.00	
Staff Professional	\$ 120.00	hr	4.0		\$480.00	
Field Professional	\$ 95.00	hr	12.0		\$1,140.00	
Drafting	\$ 85.00	hr			\$0.00	
Admin	\$ 65.00	hr			\$0.00	
Health and Safety Specialist	\$ 130.00	hr			\$0.00	
		hr			\$0.00	
					\$4,360.00	\$4,36
Contractors/Consultants	Price	Unit	# Units	Markun	Subtotal	Task '
Contractors/Consultants Electrical Usage and Telemetry	Price \$ 700.00	Unit month	# Units 12.0	Markup 1.00	Subtotal \$8,400.00	Task
					\$8,400.00 \$0.00	Task
					\$8,400.00 \$0.00 \$0.00	
					\$8,400.00 \$0.00	
					\$8,400.00 \$0.00 \$0.00	
Electrical Usage and Telemetry	\$ 700.00	month	12.0	1.00	\$8,400.00 \$0.00 \$0.00 \$8,400.00	
Electrical Usage and Telemetry Contractor/Consultant - Laboratory	\$ 700.00	month	12.0	1.00 Markup	\$8,400.00 \$0.00 \$0.00 \$8,400.00 Subtotal	
Electrical Usage and Telemetry Contractor/Consultant - Laboratory Air TO-15 - SVE Effluent	\$ 700.00 Price \$ 90.00	month Unit ea	# Units 17.0	1.00 Markup 1.00	\$8,400.00 \$0.00 \$0.00 \$8,400.00 Subtotal \$1,530.00	
Electrical Usage and Telemetry Contractor/Consultant - Laboratory Air TO-15 – SVE Effluent Air TO-15 – Other Effluent	\$ 700.00 Price \$ 90.00 \$ 180.00	month Unit ea ea	# Units 17.0	1.00 Markup 1.00 1.00	\$8,400.00 \$0.00 \$0.00 \$8,400.00 \$ubtotal \$1,530.00 \$180.00	
Electrical Usage and Telemetry Contractor/Consultant - Laboratory Air TO-15 - SVE Effluent Air TO-15 - outdoor Air Air Individual Certification	Price \$ 90.00 \$ 180.00 \$ 5.000	Unit ea ea ea	# Units 17.0 1.0	1.00 Markup 1.00 1.00	\$8,400.00 \$0.00 \$0.00 \$8,400.00 \$ubtotal \$1,530.00 \$180.00	\$8,40
Electrical Usage and Telemetry Contractor/Consultant - Laboratory Air TO-15 - SVE Effluent Air TO-15 - outdoor Air Air - Individual Certification Air - Batch Certification	Price \$ 90.00 \$ 180.00 \$ 5.000	Unit ea ea ea	# Units 17.0 1.0	1.00 Markup 1.00 1.00	\$8,400.00 \$0.00 \$0.00 \$8,400.00 Subtotal \$1,530.00 \$180.00 \$50.00	\$8,40
Electrical Usage and Telemetry Contractor/Consultant - Laboratory Air TO-15 - SVE Effluent Air TO-15 - outdoor Air Air Individual Certification	Price \$ 90.00 \$ 180.00 \$ 5.000	Unit ea ea ea	# Units 17.0 1.0	1.00 Markup 1.00 1.00	\$8,400.00 \$0.00 \$0.00 \$8,400.00 Subtotal \$1,530.00 \$180.00 \$50.00	\$8,40
Electrical Usage and Telemetry Contractor/Consultant - Laboratory Air TO-15 - SVE Effluent Air TO-15 - outdoor Air Air - Individual Certification Air - Batch Certification	Price S 700.00 S 180.00 S 50.00 S 50.00	Unit ea ea ea LS	#Units 17.0 1.0 1.0 1.0	1.00 Markup 1.00 1.00 1.00	\$8,400.00 \$0.00 \$0.00 \$8,400.00 \$whotal \$1,530.00 \$180.00 \$50.00 \$50.00 \$1,810.00	\$8,400 \$1,810

		١,	Rate		Rate	 ,	
	Direct Costs - Chargeable Equipment Expense	(n	r/unit)	# Hrs/Units		•	
	Field Vehicle - Full Day	\$	20.00		\$ 130.00	\$ 16.00	\$ 2,080.00
Vehicles	Support Vehicle - Full Day	\$	30.00		\$ 180.00		\$ -
	Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles)	\$	0.545				\$ -
	ppb RAE				\$ 175.00	12	\$ 2,100.00
Meters	Ozone Leak Detector				\$ 135.00		\$ -
	Inline Ozone Meter				\$ 230.00		\$ -
	ORP Meter				\$ 30.00		\$ -
	Air Pump - Low Flow (Barcad)				\$ 25.00		\$ -
	Development Pump				\$ 130.00		\$ -
	Electric Submersible Pump with Control Box (Units)				\$ 130.00		\$ -
	Low-Flow Sampling Bladder	\$	12.00				\$ -
Pumps	Peristaltic Pump				\$ 105.00		\$ -
rumps	Pumping Test Accessory Equipment (Flow Meters/Manifolds/Tubing)	\$	100.00				\$ -
	Portable SVE Unit - 1.5 HP				\$ 155.00		\$ -
	Intrinsically Safe Vapor Evacuation Blower				\$ 125.00		\$ -
	Pneumatic Low-Flow Pump - 1" Well				\$ 50.00		\$ -
	Pneumatic Low-Flow Sampling Kit w/ Flow Cell and Multimeter				\$ 270.00		\$ -
	SVE Monthly Rental				\$ 500.00	\$ 12.00	\$ 6,000.00
	Rotary Hammer Drill				\$ 170.00	\$ 0.50	\$ 85.00
Other	Vapor Pin Sub-Slab Sampling Port	\$	75.00	2			\$ 150.00
	Sub-Slab Cover (Stainless Steel)	\$	40.00	2			\$ 80.00
	Manometers	\$	105.00	1			\$ 105.00
	Gloves (Chemical Resistant)	\$	10.00	2			\$ 20.00
	Routine Field and Safety Equipment				\$ 50.00	12	\$ 600.00
	O&M Binder	\$	9.00				\$ -
	Color Copies	ş	0.40	12			\$ 4.80
roduction	B/W Copies	\$	0.25	24			\$ 6.00
	Document - Format/Sending	\$	15.00				\$ -
	Report CD Copy	\$	5.00	ĺ			\$ -
							\$ 11,230.80
	PHASE TOTA	L					

OHM - Wauwatosa 6140 12/22/2022



				formance Reporting	
Labor - Office/Reporting	Price	Unit	# Units	Subtotal	Task To
Director Technical Services	\$ 175.00	hr	4.0	\$700.00	
Sr Engineer	\$ 155.00	hr	8.0	\$1,240.00	
Sr Professional	\$ 155.00	hr	12.0	\$1,860.00	
Project Manager	\$ 130.00	hr		\$0.00	
Project Professional	\$ 130.00	hr	24.0	\$3,120.00	
Staff Professional	\$ 120.00	hr		\$0.00	
Field Professional	\$ 95.00	hr	16.0	\$1,520.00	
Drafting	\$ 85.00	hr	4.0	\$340.00	
Admin	\$ 65.00	hr		\$0.00	
Health and Safety Specialist	\$ 130.00	hr		\$0.00	
		hr		\$0.00	
				\$8.780.00	\$8.780

	Direct Costs - Chargeable Equipment Expense	tate /unit)	# Hrs/Units	Rate (day/use)	# days/use	Sul	btotal	
	1 Inch Binder	\$ 9.00				\$		
	2 Inch Binder	\$ 12.00				\$		
	3 Inch Binder	\$ 15.00				\$		
	4 Inch Binder	\$ 22.00				\$		
Production	Binder Tabs (Set of 8)	\$ 5.00				\$,	
	Color Copies	\$ 0.40	12			\$	4.80	
	B/W Copies	\$ 0.25	10			\$	2.50	
	Document - Format/Sending	\$ 15.00	2			\$	30.00	
	Report CD Copy	\$ 5.00				\$		
	<u> </u>					\$	37.30	\$37.30
	PHASE TOTAL							\$8,817

Project Title:
Project Number/Name
Date:

Portage Cleaners	
6493	
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Labor - Field	Price	Unit	# Units		Subtotal	Task 1
Sr Professional	\$ 155.00	hr	2.0		\$310.00	
Staff Professional-Office	\$ 125.00	hr	8.0		\$1,000.00	
Staff Professional-Field	\$ 110.00	hr			\$0.00	
Staff Professional - Field	\$ 120.00	hr	30.0		\$3,600.00	
Drafting	\$ 95.00	hr	2.0		\$190.00	
					\$5,100.00	\$5,10
Sr Professional	\$ 175.00	hr	2.0		\$350.00	
Staff Professional-Field	\$ 112.50	hr	8.0		\$900.00	
Field Professional	\$ 103.50	hr	3.0		\$310.50	
Drafting	\$ 85.50	hr	3.0		\$256.50	
					\$1,817.00	\$1,81
Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
GW VOC 8260	\$ 82.72	ea	14.0	1.10	\$1,273.89	
GW VOC 8260 QA/QC	\$ 82.72	ea	2.0	1.10	\$181.98	
Trip Blank VOCs 8260	\$ 82.72	ea	1.0	1.10	\$90.99	
gw202					\$1,546.86	\$1,54
Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel	\$ 120.00	day	1.0	1.10	\$132.00	
Meals	\$ 67.00	LS	1.0	1.10	\$73.70	

	Direct Costs - Chargeable Equipment Expense	Rate /unit)	# Hrs/Units	Rate ay/use)	# days/use	s	Subtotal				
	Field Vehicle - Full Day	\$ 20.00		\$ 135.00	3	\$	405.00				
Vehicles	Support Vehicle - Full Day	\$ 30.00		\$ 180.00		\$	-	ı	iı	i	ì
	Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles)	\$ 0.545				\$	-				
Pumps	Pneumatic Low-Flow Sampling Kit w/ Flow Cell and Multimeter			\$ 243.00	2	\$	486.00				
Other	Elec. Well Sounder (Probe)			\$ 27.00	2	\$	54.00				
Other	Nitrile Sampling Gloves (Disposable)	\$ 0.13	30.00			\$	3.90				
Safety	Routine Field and Safety Equipment			\$ 45.00	2	\$	90.00				
Production	Color Copies	\$ 0.40	2			\$	0.80				
rioduction	B/W Copies	\$ 0.25	16			\$	4.00				
	-		•		•	\$	1,043.70	\$	\$	\$	\$ 1,0
							TOTAL	\$	\$	\$ 10	\$ 10,483

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	Phase C101e	Confirmation	Sampling an	d Results Re	porting	
Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task T
Director Technical Services	\$ 175.00	hr			\$0.00	
Sr Engineer	\$ 155.00	hr	2.0		\$310.00	
Sr Professional	\$ 155.00	hr	5.0		\$775.00	
Project Manager	\$ 130.00	hr			\$0.00	
Project Professional	\$ 130.00	hr			\$0.00	
Staff Professional	\$ 120.00	hr	12.0		\$1,440.00	
					\$2,525.00	\$2,52
Contractor/Consultant - Laboratory	Price	Unit	# I Inite	Markun		\$2,52
Contractor/Consultant - Laboratory Spill VOC 8260 dry wt	Price	Unit	# Units	Markup	Subtotal	\$2,52
Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC	Price	Unit ea ea	# Units	Markup 1.00 1.00		\$2,52
Soil VOC 8260 dry wt	Price	ea	# Units	1.00	Subtotal \$0.00	\$2,52
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC	Price	ea ea	# Units	1.00 1.00	\$0.00 \$0.00	\$2,52
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260	Price	ea ea ea	# Units	1.00 1.00 1.00	\$0.00 \$0.00 \$0.00	\$2,52
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC	Price	ea ea ea	# Units	1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$2,52
Soil VOC 8250 dry wt Soil VOC 8260 dry wt OA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 OA/QC Air TO-15 Soil Gas		ea ea ea ea		1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$2,52
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 A/r TO-15 - Soil Gas Air TO-15 - Sub-Slab		ea ea ea ea ea		1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$270.00	\$2,52
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 - Soil Gas Air TO-15 - Indoor Air		ea ea ea ea ea ea		1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$270.00 \$0.00	\$2,52

	Direct Costs - Chargeable Equipment Expense	(h	r/unit)	# Hrs/Units	(da	ay/use)	# day	s/use	Sι	ubtotal
	Field Vehicle - Full Day	\$	20.00		\$	130.00	\$	1.00	\$	130.00
Vehicles	Support Vehicle - Full Day	\$	30.00		\$	180.00			\$	
	Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles)	\$	0.545						\$	
Meters	ppb RAE				\$	175.00	\$	1.00	\$	175.00
	Tubing - Polyethylene: 1/4" OD (per foot)	\$	0.60	9					\$	5.40
Other	Tubing - Polyethylene: 1/2" OD (per foot)	\$	0.85						\$	-
Other	Tubing - Tygon: 3/8" STD (per foot)	\$	4.45						\$	
	Tubing - Silicone: 3/8" STD (per foot)	\$	4.50	1.5					\$	6.75
Safety	Gloves (Chemical Resistant)	\$	10.00	1					\$	10.00
Salety	Routine Field and Safety Equipment				\$	50.00	\$	1.00	\$	50.00
	Color Copies	\$	0.40	4					\$	1.60
Production	B/W Copies	\$	0.25	1					\$	0.25
riouuctioii	Document - Format/Sending	\$	15.00						\$	-
	Report CD Copy	\$	5.00						\$	-
		•							\$	-
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OHM - Wauwatosa 6140 12/22/2022



F	Phase C101f	Project Mana	gement (thro	ugh install a	nd one year (D&M)
Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Sr Project Manager	\$ 155.00	hr	40.0		\$6,200.00	
					\$6,200.00	\$6,200.00

	Direct Costs - Chargeable Equipment Expense		rate	# Hrs/Units	кате	# days/use	Sub	totai	
	Color Copies	\$	0.40	12			\$	4.80	
Production	B/W Copies	\$	0.25	48			\$	12.00	
rioduction	Document - Format/Sending	\$	15.00				\$		
	Report CD Copy	\$	5.00				\$	-	
							\$	16.80	\$16.80
	PHASE TOTAL								\$6,216.80



February 14, 2024

VIA EMAIL (lawrence.lester @wisconsin.gov)

Mr. Lawrence Lester Hydrogeologist Wisconsin Department of Natural Resources 3911 Fish Hatchery Road Fitchburg, WI 53711

RE: Request for Variance From Consultant

Bidding Process Portage Cleaners, Inc.

BRRTS# 02-11-512824

Dear Mr. Lester:

Our firm represents Porter Badger Management LLC, which is the agent of the above sites' responsible party, Portage Cleaners, Inc. We are writing to request a variance to the NR 169.11(1)(c)10 bid requirements as allowed by NR 169.29 to allow EnviroForensics, LLC to perform remedial activities at the site and preserve our client's right to seek reimbursement for these costs under DERF. We hope that you will be convinced that EnviroForensics' lengthy history at the site and unique knowledge of subsurface conditions puts it in the best position to complete the remedial activities needed to move the site to case closure.

Historical Site Investigations and Funding Sources

PERC was detected at the site and reported to the WDNR on August 28, 2003. The Site entered DERF that same year and between 2003 and 2016, the previous consultants performed work at the site under the DERF program. Site investigation activities were taken over by EnviroForensics starting in 2016 and the site investigation appears complete and remedial activities have been undertaken as is well documented in the site's BRRTs database listing.

These activities were completed utilizing proceeds from historical insurance policies and were not reimbursed by DERF.

Funding Clarification

It has been determined that the remaining remedial effort needed to complete the site

remediation is the installation of an SVE system to remove contaminant mass from the vadose zone adjacent to the primary site building, as described in the SVE System Design Report provided to the DNR on January 4, 2023¹. The cost of implementing the SVE System will exceed the available funding, including monies recovered from all known historical insurance policies. As such, EnviroForensics, as agent of the responsible party, will seek reimbursement directly from the DERF program to fund this next scope of work. Reimbursement is not being sought for any past Site investigative or remediation activities.

Variance From Consultant Bidding Process

Given the length of time EnviroForensics has been working at the site, and the high complexity of the subsurface geology and the remediation that has been performed to date, a variance to the NR 169.11(1)(c)10 bid requirements is allowed by NR 169.29 for the for the SVE system. Since taking over in 2016, EnviroForensics has created the site conceptual model, performed the vast majority of the investigative work and implemented remedial actions at the site, and has fully designed the SVE system to be implemented. Once the SVE System task is complete, it is likely the only tasks remaining at the site are post-remedial monitoring and interpretation of the data within the conceptual site model designed by EnviroForensics. Thus, it would be a substantial inefficiency to have to ask another consultant to get up to speed and perform the work. EnviroForensics' knowledge of Site conditions and remedial actions taken puts it in a position to provide the most complete and cost-effective proposal, and to proceed to closure in the most expeditious manner.

As a courtesy, another copy of the January 4, 2023 SVE System Design Report is attached. If this is acceptable to the WDNR, please notify us at your earliest convenience.

We appreciate the continued opportunity to work with the WDNR to remediate contaminated properties throughout Wisconsin. If you have any questions or require additional information, please do not hesitate to contact me by email or by phone.

Very truly yours,

HALLING & CAYO, S.C.

Andy Skwierawski mas@hallingcayo.com

MAS/msb *Enclosure*

¹ Please note the report was accidentally dated January 4, 2022, but was in fact sent on January 4, 2023.

From: Mallory Burlingame < msb@hallingcayo.com>

Sent: Wednesday, February 14, 2024 2:42 PM

To: Lester, Lawrence J - DNR <Lawrence.Lester@wisconsin.gov>

Cc: Ted Warpinski < taw@hallingcayo.com >; Andy Skwierawski < mas@hallingcayo.com >; Nicholas Hill

<nhill@enviroforensics.com>; Wayne Fassbender <wfassbender@enviroforensics.com>

Subject: RE: Request for Variance From Consultant / BRTTS#02-11-512824

CAUTION: This email originated from outside the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mr. Lester,

Attached please find an additional enclosure relative to my previous email.

Thanks, Mallory



Mallory S. Burlingame Legal Assistant **HALLING & CAYO, S.C.** 320 E. Buffalo Street, Suite 700 Milwaukee, WI 53202

(414) 271-3400 (414) 271-3841 Facsimile

www.hallingcayo.com

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From: Mallory Burlingame

Sent: Wednesday, February 14, 2024 2:07 PM

To: lawrence.lester@wisconsin.gov

Cc: Ted Warpinski <taw@hallingcayo.com>; Andy Skwierawski <mas@hallingcayo.com>; Nicholas Hill

<nhill@enviroforensics.com>; Wayne Fassbender <wfassbender@enviroforensics.com>

Subject: Request for Variance From Consultant / BRTTS#02-11-512824

Good Afternoon,

Attached please find correspondence from Attorney Andy Skwierawski dated February 14, 2024, regarding the above-referenced matter.

Thank you, Mallory



Mallory S. Burlingame Legal Assistant **HALLING & CAYO, S.C.** 320 E. Buffalo Street, Suite 700 Milwaukee, WI 53202

(414) 271-3400 (414) 271-3841 Facsimile

www.hallingcayo.com

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EnviroForensics, LLC 825 North Capitol Avenue Indianapolis, Indiana 46204 866.888.7911



MEMORANDUM

TO: Andrew Skwierawski, Halling & Cayo

FROM: Nicholas Hill, EnviroForensics

CC: Dave Bieno, Portage Cleaners

Wayne Fassbender, EnviroForensics

Collin Martin, Porter Badger Management, LLC

DATE: February 14, 2024

SUBJECT: SVE System Cost Estimate Update

Former Portage Cleaners BRRTS #02-11-512824

EnviroForensics Project #6493

As requested, EnviroForensics, LLC (EnviroForensics) is presenting this Soil Vapor Extraction (SVE) System Cost Estimate Update memorandum to perform installation, startup, and one (1) year of operation, maintenance, and monitoring (OMM) activities for an SVE system for the former Portage Cleaners facility located at 101 East Wisconsin Street, Portage, Wisconsin (Site).

The proposed scope of work and associated costs for the above SVE activities were initially presented in the SVE System Design Report (SVE RAD Report), that was submitted to the Wisconsin Department of Natural Resources (WDNR) on January 4, 2023 (incorrectly dated, January 4, 2022). This memorandum presents a refined estimate for the necessary SVE and OMM activities, and the rationale for the increase in cost. The refined cost estimate is shown in the attached **Table 1**, with the included cost detail spreadsheets.

After our recent review of the documentation, we determined the proposed SVE remedial design was appropriate, but the work efforts for the respective task-phases had been significantly underestimated. It appears that the original cost estimate was hastily prepared by former EnviroForensics staff that were in the process of moving on to new job opportunities with different firms, and our typical internal review process was not implemented prior to WDNR submittal. Some of the inconsistencies in estimating cost that we discovered include:



- 1. The costing of tasks to relocate the SVE system and install controls, electrical hookups, subsurface vents, and piping appurtenances were proposed to be performed by inhouse EnviroForensics staff and did not account for the arduousness of the tasks which require the use of subcontractors having specialized equipment.
- 2. The amount of time and effort needed to travel to and from the Site, evaluate SVE system effectiveness, and comply with air emission standards was significantly underestimated.
- 3. Outdated staff rates dating back to 2017 or earlier were utilized throughout the estimate. These rates need to be increased to more current industry standards.

In conclusion, we intend on implementing the proposed tasks as presented in the January 2023 SVE RAD Report and within the increased budgets outlined in the attached **Table 1**.

We appreciate your assistance on this matter. Please do not hesitate to contact EnviroForensics if you have any questions.



TABLE 1

COST ESTIMATE: DERF REQUEST Former Portage Cleaners Portage, Wisconsin

TASK	LABOR COSTS	SUB- CONTRACTOR COSTS	DIRECT COSTS	TOTAL COST	PHASE COST
Phase C100b - SVE System Mobi	lization and Infra	structure Installation	1		
 Mobilize SVE trailer unit to Site. Complete installation of 2 extraction points and associated connection of conveyance piping to trailer. Complete electrical connection. 	\$14,275.00	\$35,767.50	\$2,418.40	\$52,461	\$52,461
Phase C100c - SVE Startup, Routine Of	/I&M (12 Months	s) & Confirmation Sai	mpling		
 Initiate system startup and initial optimization activities, including emission testing procedures during first month. Costs included for 6 visits and collection of 6 emission samples and 1 ambient air sample during first 4 weeks. Perform routine operation, maintenance, and monitoring activitiesfor 11 subsequent months. Costs included for 1 visit and collection of 1 emission sample each month. Perform SVE confirmation sampling 30 days after shutdown. Costs included for 1 visit and collection of 2 sub-slab vapor samples. 	\$14,780.00	\$30,674.00	\$10,550.00	\$56,004	\$56,004
Phase C100d - SVE OM&	M Plan & Bi-Ann	ual Reporting			
 Prepare and submit two (2) Bi-Annual Reports for submittal to WDNR for reporting operational status Prepare and submit one (1) Operation, Maintenance, and Monitoring Plan to WDNR for presenting necessary procedures for approval. 	\$12,280.00	\$0.00	\$31.00	\$12,311	\$12,311
Phase C101b - 2023 Annual Gro	undwater Monit	oring and Reporting			
 Perform routine groundwater monitoring field and reporting for entire well network. Includes submission of 18 samples for VOCs. 	\$9,432.50	\$1,449.00	\$2,515.84	\$13,397	\$13,397
TOTAL	\$50,768	\$67,891	\$15,515	\$134,173	\$134,173

Date:

2023 SVE Install&Operation and 2023 Annual GWM

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Staff Professional FS-II	\$	125.00					
		125.00	hr	48.0		\$6,000.00	
			hr			\$0.00	
				<u> </u>	.1	\$6,000.00	\$6,00
lish and Office Countries and Occupation							
Labor - Office Coordination & Oversight		Price	Unit	# Units		Subtotal	Task
Principal	\$	210.00	hr	3.0		\$630.00	
Sr Professional	\$	195.00	hr	12.0		\$2,340.00	
Project Professional	\$	160.00	hr	31.0		\$4,960.00	
Field Professional	\$	115.00	hr	3.0		\$345.00	
			hr			\$0.00	
						\$8,275.00	\$8,2
Contractors/Consultants		Price	Unit	# Units	Markup	Subtotal	Task
SVE Delivery	Ś	2,400.00	LS	1.0	1	\$2,400.00	
Infrastructure Installation	Ś	29,390.00	LS	1.0	1	\$29,390.00	
Electrical Contractor for Supply and Connections	\$	3,094.00	LS	1.0	1	\$3,094.00	
Waste Disposal	\$	800.00	LS	1.0	1	\$800.00	
					<u> </u>	\$35,684.00	\$35,6
Contractor /Consultant Laborator							
Contractor/Consultant - Laboratory		Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt IDM Characterization	\$	83.50	ea	1.0	1	\$83.50	4
						\$83.50	\$83
Direct Costs - Expenses		Price	Unit	# Units	Markup	Subtotal	
Hotel	\$	130.00	day		1	\$0.00	
Meals	\$	65.00	day		1	\$0.00	
Misc Materials (PVC piping manifold and valves)	\$	800.00	LS	0.0	1	\$0.00	
Telemetry Unit	\$	1,000.00	each	1.0	1	\$1,000.00	
Equipment Rental (fork lift)	\$	125.00	day	1.0	1	\$125.00	
						\$0.00	
						\$0.00	
						\$0.00	
	-		-		-	\$1,125.00	\$1,1

Direct Costs - Chargeable Equipment Expense		Rate (hr/unit)	# Hrs/Units			# days/use	s	Subtotal	
Field Vehicle - Full Day	\$	20.00		\$	150.00	4	\$	600.00	
Rotary Hammer Drill				\$	170.00	1	\$	170.00	
Nitrile Sampling Gloves (Disposable)	\$	0.22	20				\$	4.40	
55-Gallon Drum	\$	100.00	1				\$	100.00	
Vapor Pin Sub-Slab Sampling Port	\$	75.00	2				\$	150.00	
Sub-Slab Cover (Stainless Steel)	\$	40.00	2				\$	80.00	
Measuring Wheel				\$	15.00	0	\$	-	
Routine Field and Safety Equipment				\$	60.00	3	\$	180.00	
Color Copies	\$	0.40	10				\$	4.00	
B/W Copies	\$	0.25	20				\$	5.00	
	·						\$	1,293.40	\$1,293.40
	Field Vehicle - Full Day Rotary Hammer Drill Nitrile Sampling Gloves (Disposable) 55-Gallon Drum Vapor Pin Sub-Slab Sampling Port Sub-Slab Cover (Stainless Steel) Measuring Wheel Routine Field and Safety Equipment Color Copies	Field Vehicle - Full Day Rotary Hammer Drill Nitrile Sampling Gloves (Disposable) \$55-Gallon Drum \$vapor Pin Sub-Slab Sampling Port \$cub-Slab Cover (Stainless Steel) Measuring Wheel Routine Field and Safety Equipment Color Copies \$	Direct Costs - Chargeable Equipment Expense (hr/unit) Field Vehicle - Full Day Rotary Hammer Drill Nitrile Sampling Gloves (Disposable) 55-Gallon Drum Vapor Pin Sub-Slab Sampling Port Sub-Slab Cover (Stainless Steel) Measuring Wheel Routine Field and Safety Equipment Color Copies (hr/unit) \$ 20.00 \$ 20.00 \$ 0.22 \$ 100.00 \$ 100.00 \$ 40.00 \$ 40.00 \$ 40.00	Direct Costs - Chargeable Equipment Expense (hr/unit) # Hrs/Units Field Vehicle - Full Day \$ 20.00 Rotary Hammer Drill Nitrile Sampling Gloves (Disposable) \$ 0.22 20 55-Gallon Drum \$ 100.00 1 Vapor Pin Sub-Slab Sampling Port \$ 75.00 2 Sub-Slab Cover (Stainless Steel) \$ 40.00 2 Measuring Wheel Routine Field and Safety Equipment Color Copies \$ 0.40 10	Direct Costs - Chargeable Equipment Expense (hr/unit) # Hrs/Units (da Field Vehicle - Full Day \$ 20.00 \$ Rotary Hammer Drill \$ 0.22 20 Nitrile Sampling Gloves (Disposable) \$ 0.22 20 55-Gallon Drum \$ 100.00 1 Vapor Pin Sub-Slab Sampling Port \$ 75.00 2 Sub-Slab Cover (Stainless Steel) \$ 40.00 2 Measuring Wheel \$ \$ Routine Field and Safety Equipment \$ 0.40 10	Direct Costs - Chargeable Equipment Expense (hr/unit) # Hrs/Units (day/use) Field Vehicle - Full Day \$ 20.00 \$ 150.00 Rotary Hammer Drill \$ 170.00 Nitrile Sampling Gloves (Disposable) \$ 0.22 20 55-Gallon Drum \$ 100.00 1 Vapor Pin Sub-Slab Sampling Port \$ 75.00 2 Sub-Slab Cover (Stainless Steel) \$ 40.00 2 Measuring Wheel \$ 15.00 Routine Field and Safety Equipment \$ 60.00 Color Copies \$ 0.40 10	Color Copies Chargeable Equipment Expense Chr/unit # Hrs/Units # Hrs/Units # days/use # days/us	Color Copies Chargeable Equipment Expense Chr/unit # Hrs/Units Cday/use # days/use S	Color Copies Chargeable Equipment Expense Chr/unit # Hrs/Units Cday/use # days/use Subtotal

2023 SVE Install&Operation and 2023 Annual GWM

2/14/2024

Date:

6493 - Portage Cleaners



Labor - Field	Price	Unit	# Units		Subtotal	Task
Staff Professional FS-II	\$ 125.0		10.0		\$1,250.00	
34411101633101411311	, III	hr	10.0		\$0.00	
				ı	\$1,250.00	\$1,25
				1		
Labor - Office Oversight / OMM Plan	Price	Unit	# Units		Subtotal	Task
Principal	\$ 210.0	0 hr	6.0		\$1,260.00	
Sr Professional	\$ 195.0	0 hr	30.0		\$5,850.00	
Project Professional	\$ 160.0	0 hr	30.0		\$4,800.00	
Drafting	\$ 110.0	0 hr	6.0		\$660.00	
	-				\$13,530.00	\$13,53
Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task
Electrcial usage	\$ 700.0		12.0	1.00	\$8,400.00	
telemetry	\$ 450.0	0 each	1.0	1.00	\$450.00	
System Operator	\$ 17,524.0	0 LS	1.0	1.00	\$17,524.00	
					\$26,374.00	\$26,3
Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Air TO-15 Sub-Slab	\$ 200.0		3.0	1.00	\$600.00	
Air TO-15 Effluent Air	\$ 200.0		17.0	1.00	\$3,400.00	
Air TO-15 Outdoor Air	\$ 200.0		1.0	1.00	\$200.00	
Air - Individual Certification	\$ 50.0		1.0	1.00	\$50.00	
Air - Batch Certification	\$ 50.0		1.0	1.00	\$50.00	
	1	-			\$4,300.00	\$4,30
Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel	\$ 120.0	0 day		1.00	\$0.00	
Meals	\$ 67.0	0 LS		1.00	\$0.00	
Sample Shipment	\$ 100.0	0 month	12.0	1.00	\$1,200.00	
SVE Monthly Rental	\$ 750.0	0 month	12.0	1.00	\$9,000.00	
					\$10,200.00	\$10,2

						Rate				
	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	(da	ay/use)	# days/use	9	Subtotal	
Vehicles	Field Vehicle - Full Day	\$	20.00		\$	150.00	1	\$	150.00	
Meters	ppb RAE				\$	175.00	0	\$	-	
Other	Manometers	\$	105.00	1				\$	105.00	
Safety	Routine Field and Safety Equipment				\$	60.00	1	\$	60.00	
Duaduation	Color Copies	\$	0.40	25				\$	10.00	
Production	B/W Copies	\$	0.25	100				\$	25.00	
								\$	350.00	\$350.00
PHASE TOTAL							\$56,004.			

Project	Title:
Project	Number/Name:

Date:

2023 SVE Install&Operation and 2023 Annual GWM

6493 - Portage Cleaners

2/14/2024



	Phase C100d - SVE OM&N	1 Plan & Bi-A	nnual Reporti	ng			
	Labor - Office Oversight / Bi-Annual Reporting	Price	Unit	# Units		Subtotal	Task Total
	Principal	\$ 210.00	hr	8.0		\$1,680.00	
	Sr Professional	\$ 195.00	hr	16.0		\$3,120.00	
	Project Manager	\$ 160.00	hr	34.0		\$5,440.00	
	Staff Professional-Office	\$ 145.00	hr	8.0		\$1,160.00	
	Drafting	\$ 110.00	hr	8.0		\$880.00	
1						\$12,280.00	\$12,280.00
		Rate		Rate			
	Direct Costs - Chargeable Equipment Expense	(hr/unit)	# Hrs/Units	(day/use)	# days/use	Subtotal	
Draduation	Color Copies	\$ 0.40	15			\$ 6.00	
Production	B/W Copies	\$ 0.25	100			\$ 25.00	
						\$ 31.00	\$31.00
	PHASE TOTAL						\$12,311.00

2023 SVE Install&Operation and 2023 Annual GWM

6493 - Portage Cleaners

2/14/2024



Labor - Field	Price	Unit	# Units		Subtotal	Task
Staff Professional FS-II	\$ 125.00	hr	34.0		\$4,250.00	
		hr			\$0.00	
			•		\$4,250.00	\$4,25
Labor - Office Oversight / Reporting	Price	Unit	# Units		Subtotal	Task
Principal	\$ 210.00	hr	1.5		\$315.00	1051.10
Sr Professional	\$ 195.00	hr	6.5		\$1,267.50	
Project Manager	\$ 160.00	hr	1.0		\$160.00	
Project Professional	\$ 160.00	hr	16.5		\$2,640.00	
Staff Professional-Office	\$ 145.00	hr	4.0		\$580.00	
Drafting	\$ 110.00	hr	2.0		\$220.00	
	•				\$5,182.50	\$5,18
Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
GW VOC 8260	\$ 70.00	ea	13.0	1.00	\$910.00	
GW VOC 8260 QA/QC	\$ 70.00	ea	4.0	1.00	\$280.00	
Trip Blank VOCs 8260	\$ 70.00	ea	1.0	1.00	\$70.00	
Level IV QA/QC (15%)					\$189.00	
					\$1,449.00	\$1,4
Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
	11100		511165	arkap	34.2000	

	Direct Costs - Chargeable Equipment Expense	Rate r/unit)	# Hrs/Units	Rate ay/use)	# days/use	9	Subtotal	
	Field Vehicle - Full Day	\$ 20.00		\$ 150.00	3	\$	450.00	1
Vehicles	Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles)	\$ 0.545				\$	-	
Pumps	Pneumatic Low-Flow Sampling Kit w/ Flow Cell and Multimeter			\$ 390.00	3	\$	1,170.00	1
	Elec. Well Sounder (Probe)			\$ 35.00	3	\$	105.00	
	Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8" OD (per foot)	\$ 2.60	160			\$	416.00	1
Other	Tubing - Silicone: 3/8" STD (per foot)	\$ 4.80	13			\$	62.40	1
	Nitrile Sampling Gloves (Disposable)	\$ 0.22	52			\$	11.44]
	55-Gallon Drum	\$ 100.00	1			\$	100.00	
Safety	Routine Field and Safety Equipment			\$ 60.00	3	\$	180.00	1
Production	Color Copies	\$ 0.40	15			\$	6.00	
Production	B/W Copies	\$ 0.25	60			\$	15.00	l
						\$	2,515.84	
	PHASE TOTAL							I