

March 23, 2018

Richard Joslin Wisconsin Department of Natural Resources 625 E County Road Y, Suite 700 Oshkosh, Wisconsin 54901-9731

**Subject:** Project Progress Update and Request for Change Order for Vapor

**Mitigation System Installation** 

**Former Dutch Cleaners** 

403 S. Main Street, Cedar Grove, Wisconsin

BRRTS# 02-60-271527

Dear Mr. Joslin:

On behalf of the responsible party (RP), Jere Ebbers, EnviroForensics, LLC (EnviroForensics) is providing you with this project progress update and change order request for installation of a sub-slab depressurization system (SSDS).

## **Project Progress**

EnviroForensics has completed the diagnostic testing and design of an SSDS for the former Dutch Cleaners building located at 403 S. Main Street, Cedar Grove, Wisconsin (Site). SSDS design criteria and costing information are addressed below.

We have also completed one (1) round of vapor intrusion (VI) sampling at two (2) of the four (4) nearby buildings slated for VI sampling as described in our work scope titled: *Letter Report and Work Scope for Further Site Investigation Activities*, dated November 10, 2017. You have been sent copies of our results notifications that were also sent to the property owners. At this time, there were no identified VI risks to the commercial building located at 406 S. Main Street, or to the 3-family apartment building located at 416 S. Main Street.

As indicated in a past email communication, we were not successful in gaining access to the commercial property located directly to the north of the Site (349 S. Main Street), or the residential home to the west of the Site (11 Wisconsin Avenue). We have followed all access request procedures and have sent you proof of delivery and a copy of a follow-up letter via email. We will be scheduling a second round of VI sampling to occur in the upcoming non-

Document: 6420-0106 EnviroForensics, LLC

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

Phone: 262-290-4001 • Fax 317-972-7875



heating months for the two (2) properties that have granted us access, but we are suspending our efforts to gain access to the other two (2) properties at this time.

We also collected a sample of foundation water from the basement sump and have reported discharge concentrations and quantities to the Village of Cedar Grove per their permit requirements.

# **Vapor Mitigation System Design**

Advance diagnostics were performed prior to design of the SSDS at the Site building. The diagnostics included impressing negative pressure at two (2) locations below the basement concrete slab and measuring negative pressures at several test point locations. **Figure 1** shows the basement layout, test extraction points (EP-1 and EP-2), and negative pressure test points (TP-1, TP-2, and TP-3). We also measured negative pressure in existing sub-slab vapor collection points SSV-1 and SSV-2. **Table 1** contains all of the pressure field extension measurements.

As can be seen in **Table 1**, the negative pressure induced at EP-1 did not sufficiently propagate across the basement slab. However, when negative pressure was applied to EP-2, good negative pressure readings were observed in all of the test points. The negative pressures observed by EP-2 are also recorded on **Figure 1**. As seen on **Figure 1**, vapor mitigation of the basement slab can be achieved by venting through only one (1) extraction point (EP-2).

Based on the results of the PFE testing, one (1) extraction point will be connected with conveyance piping to a RadonAway RP 265 fan (or similar) and exhausted a minimum of 2 feet above the building roofline. A minimum of three (3) gallons of sub-slab soil will be removed from the extraction point to create a sump and increase connectivity to the subsurface. Sub-slab soils will be containerized in drums, sampled for volatile organic compounds (VOCs) by U.S. EPA SW-846 Method 8260, and disposed of at a permitted disposal facility. Conveyance piping, consisting of 3-inch and/or 4-inch Schedule 40 PVC, will be sealed to the sump with polyurethane caulk and sloped toward the extraction points to facilitate drainage of condensate back toward the sump. A U-tube manometer will be installed on the conveyance piping to visually indicate operating vacuum. The fan will be mounted outside of the building and hardwired to a dedicated circuit breaker inside the building with a dedicated on/off switch next to the fan. Visible cracks in the slab foundation will be sealed to maximize efficacy of the SSDS. The proposed SSDS layout is depicted on **Figure 1**.

Document: 6420-0106 2 March 23, 2018



A sub-membrane depressurization system (SMDS) is proposed to mitigate potential vapor intrusion through the western crawl space. Crawl space soils will be sealed off using 6-mil plastic sheeting and polyurethane calk. A horizontal perforated pipe of 3 to 10 feet in length will be installed under the sheeting as a depressurization point. Based on the size of the crawl space, it is anticipated than one (1) depressurization point will be sufficient. The perforated piping will be connected to conveyance piping and routed to a RadonAway RP 380 fan (or similar), mounted next to the SSDS fan on the outside of the building, and exhausted above the building roofline. The SMDS fan will be hardwired to the same circuit breaker as the SSDS fan, with a dedicated on/off switch next to the fan. The proposed SMDS layout is depicted on **Figure 1**.

Due to limited overhead clearance within the southern crawl space and the related lack of access for SMDS installation purposes, the entire crawl space cavity will be vented. The crawl space cavity will be sealed off from the basement with 6-mil plastic sheeting over the crawl space entrance. The sheeting will be bonded to the crawl space entrance with polyurethane calk to create a seal. Conveyance piping will be installed as specified for the SMDS proposed above, but the perforated piping is not required. The conveyance piping will be routed to the same RadonAway RP 380 fan (or similar) as proposed for use with the SMDS. The proposed cavity vent system layout is depicted on **Figure 1**.

## **Vapor Mitigation System Commissioning**

Installation and startup of the vapor mitigation systems are proposed to be completed in April of 2018. Per PUB-RR-800, commissioning of the vapor mitigation systems will be performed following installation and startup. Pressure field extension testing will be completed following startup of the SSDS in the same manner as previously performed. Two (2) additional pressure field extension testing events will be performed 4 and 8 months following startup, respectively (tentatively scheduled for August and December, 2018). A winter indoor air VI assessment will be performed at the same time as the December pressure field extension testing event to evaluate winter VI conditions during mitigation.

The SMDS will be visually inspected for suction across the sheeting surface upon system startup. A smoke test will be performed to check the integrity of the cavity vent system, with a smoke source placed within the cavity and initiated prior to final sealing of the cavity. The basement and first floor building levels will be inspected for smoke intrusion during testing to identify potential compromises in the cavity vent system.

Document: 6420-0106 3 March 23, 2018



# **Costing and Change Order Request**

We have attached detailed cost breakdown sheets for the vapor mitigation work and have attached an updated Form 4400-214D. The total estimated cost of this additional work is \$28,848. We are requesting a change order to cover the costs of work scoping, preparation of the change order, installing and commissioning the vapor mitigation system, preparation of the vapor mitigation Operation Maintenance & Monitoring Plan, and associated project coordination and management. This change order will be #6.

We are not requesting a change order for additional mobilization and field time for vapor intrusion sampling at this time. We have performed the pressure field extension testing in house rather than using a subcontractor, and that has saved considerable Phase 2 budget. If access for vapor intrusion sampling is granted for the remaining two (2) off-site properties, we will reevaluate the budget to determine if additional budget is needed for re-mobilization and field time.

If you have any questions or require additional information, please do not hesitate to contact me at (414) 982-3988, or by email at wfassbender@enviroforensics.com.

Sincerely,

**EnviroForensics, LLC** 

Wayne Fassbender, PG Senior Project Manager

Attachments:

Figure 1

Table 1

**Detailed Costing Sheets** 

Form 4400-214D for Change Order Request #6

Copy: Jere Ebbers

Tom and Marilyn Berlin

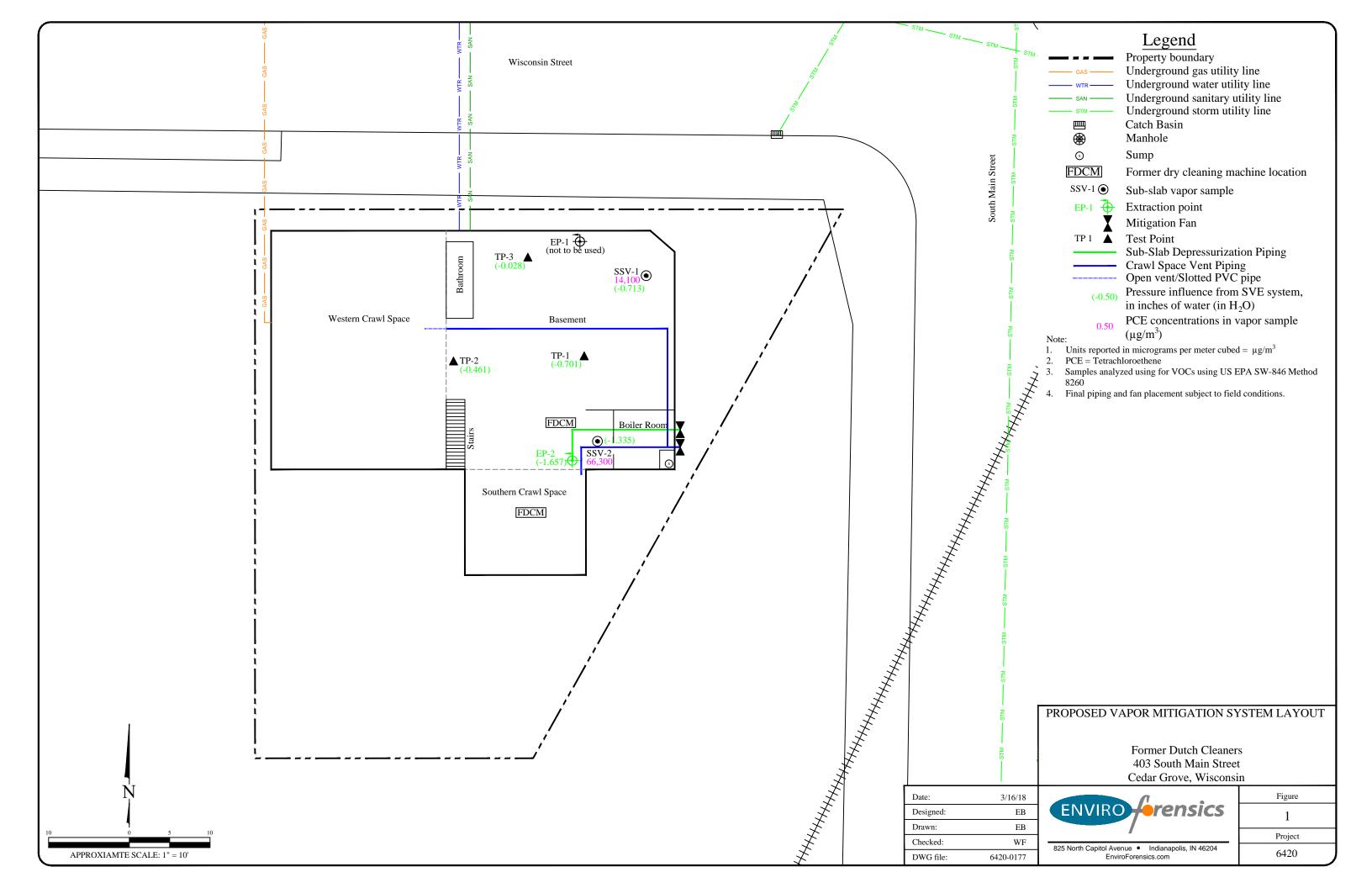


Table 1
Pressure Field Extension
403 S. Main Street, Cedar Grove, Wisconsin

Date	Time	Duct Size	Extraction	CFM	Negative Pressue (in WC)							
	hh:mm	inches	Points Open		Fan	EP-1	EP-2	SSV-1	SSV-2	TP-1	TP-2	TP-3
1/26/2018	13:09	3		134.56	-1.740	-1.685	-1.689	-0.756	-1.323	-0.705	-0.472	NA
1/26/2018	13:19	3	EP-(1 & 2)	133.71	-1.729	-1.687	-1.666	-1.729	-1.323	-0.706	-0.468	NA
1/26/2018	13:41	2		208.10	-2.691	-2.706	NA	-2.691	0	0	0	NA
1/26/2018	13:51	] 3	EP-1	204.93	-2.65	-2.644	NA	-2.65	0	0	0	NA
1/26/2018	14:07	2		134.10	-1.734	NA	-1.686	-1.734	-1.340	-0.669	-0.457	-0.030
1/26/2018	14:17	3	EP-2	133.55	-1.727	NA	-1.657	-1.727	-1.335	-0.701	-0.461	-0.028

Distances (in feet) from monitoring points to Extraction Point 2	22	3	16	15.5	21

Notes:

NA = Not Analyzed

CFM calculated using typical CFM vs static Pressure WC of Fan



# TABLE 1 VAPOR MITIGATION SYSTEM INSTALLATION COST ESTIMATE Former Dutch Cleaners Cedar Grove, WI

TASK	LABOR COSTS	SUB- CONTRACTOR COSTS	DIRECT COSTS	PHASE COST
	Phase 3a			
Work Scoping and Change Order Request	\$1,240	\$0	\$17	\$1,257
	Phase 3b			
Vapor Mitigation System Installation	\$3,660	\$10,047	\$908	\$14,615
	Phase 3c			
Vapor Mitigation System Commissioning	\$4,875	\$920	\$572	\$6,367
	Phase 3d			
Vapor Mitigation System O&M Plan Development	\$935	\$0	\$8	\$943
	Phase 3e			
Project Coordination & Management	\$1,660	\$0	\$5	\$1,665
TOTAL	\$12,370	\$10,967	\$1,511	\$24,848

SSDS Testing & Vapor Intrusion Assessments 6420 / Former Dutch Cleaners



	3/21/2018			-	
Pha	se 3a Work Scop	ing and C	hange Orde	r Request	
Labon Field	p.t.	¥1	4 *1		6-14-4-1
Labor - Field Principal	Price \$200.00	Unit hr	# Units		Subtotal \$0.00
Director	\$175.00	hr			\$0.00
Sr Project Manager	\$155.00	hr			\$0.00
Sr Professional	\$155.00	hr			\$0.00
Project Manager	\$130.00	hr			\$0.00
Project Professional	\$130.00	hr			\$0.00
Staff Professional-Office	\$120.00	hr			\$0.00
Staff Professional-Field	\$120.00	hr			\$0.00
Field Professional	\$95.00	hr			\$0.00
Drafting	\$85.00	hr			\$0.00
Admin	\$65.00	hr			\$0.00
Compliance Specialist					\$0.00
Vapor Intrusion Specialist					\$0.00
Health and Safety Specialist					\$0.00
					\$0.00
					\$0.00
Labor - Office/Reporting	Price	Unit	# Units		Subtotal
Principal	\$200.00	hr			\$0.00
Director	\$175.00	hr			\$0.00
Sr Project Manager	\$155.00	hr			\$0.00
Sr Professional	\$155.00	hr	8.0		\$1,240.00
Project Manager	\$130.00	hr	ļ		\$0.00
Project Professional	\$130.00	hr			\$0.00
Staff Professional-Office	\$120.00	hr			\$0.00
Staff Professional-Field	\$120.00	hr			\$0.00
Field Professional	\$95.00	hr	ļ		\$0.00
Drafting	\$85.00	hr			\$0.00
Admin	\$65.00	hr	ļ		\$0.00
Compliance Specialist					\$0.00
Vapor Intrusion Specialist			<b></b>		\$0.00
Health and Safety Specialist					\$0.00
		hr		<u> </u>	\$0.00 \$1,240.00
Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal
Utility Locate  Utility Locate		LS		1.00	\$0.00
Driller		LS	Ì	1.00	\$0.00
Surveyor		LS		1.00	\$0.00
Waste Disposal		LS		1.00	\$0.00
WDNR Review Fee		LS		1.00	\$0.00
Remediation		LS	1	1.00	\$0.00
	<del>-    </del>	-	1	1.00	\$0.00
				1.00	\$0.00
				1.00	\$0.00
			t	1.00	
					\$0.00
			<u> </u>	1.00	\$0.00 \$0.00
Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	
Contractor/Consultant - Laboratory Soil VOC 8260 dry wt	<b>Price</b> \$71.93	Unit ea	# Units		\$0.00
			# Units	Markup	\$0.00 Subtotal
Soil VOC 8260 dry wt	\$71.93	ea	# Units	Markup	\$0.00 Subtotal \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC	\$71.93 \$71.93	ea ea	# Units	Markup 1.00 1.00	\$0.00 <b>Subtotal</b> \$0.00 \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260	\$71.93 \$71.93 \$71.93	ea ea ea	# Units	Markup 1.00 1.00 1.00	\$0.00 <b>Subtotal</b> \$0.00 \$0.00 \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 QA/QC	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93	ea ea ea	# Units	Markup 1.00 1.00 1.00 1.00	\$0.00 Subtotal \$0.00 \$0.00 \$0.00 \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 Soil Gas	\$71.93 \$71.93 \$71.93 \$71.93	ea ea ea ea	# Units	Markup 1.00 1.00 1.00 1.00 1.00	\$0.00  Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93	ea ea ea ea ea	# Units	Markup 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00  Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00	ea ea ea ea ea ea ea	# Units	Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
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 Sub-Slab Air TO-15 Indoor Air Air TO-15 Indoor Air	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$50.00	ea ea ea ea ea ea ea	# Units	Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00 Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$50.00 \$35.00	ea ea ea ea ea ea ea	# Units	Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00 Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$50.00 \$35.00	ea ea ea ea ea ea ea	# Units	Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
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 Sub-Slab Air TO-15 Indoor Air Air To-15 Indoor Air Tir - Individual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)	\$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$50.00 \$35.00 \$71.93	ea ea ea ea ea ea ea LS ea	# Units	Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00 Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air Indivudual Certification Air Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs Expenses	\$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$50.00 \$35.00 \$71.93	ea Unit		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Soil Gas Air TO-15 Indoor Air Air - Batch Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$55.00 \$35.00 \$71.93	ea  Ca LS Ca Unit		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
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 Sol-Slab Air TO-15 Indoor Air Air To-15 Indoor Air Air To-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals	\$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$50.00 \$35.00 \$71.93	ea  Unit day LS		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
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 Air Undudual Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$550.00 \$35.00 \$71.93	ea ea ea ea ea LS ea Unit day		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00
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 Sol-Slab Air TO-15 Indoor Air Air To-15 Indoor Air Air To-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$550.00 \$35.00 \$71.93	ea  Unit day LS		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00
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 Sub-Slab Air TO-15 Indoor Air Air To-15 Indoor Air Air To-15 Indoor Air Air To-15 Indoor Air Air Datch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$550.00 \$35.00 \$71.93	ea ea ea ea ea LS ea Unit day		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00
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 Air Undudual Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$550.00 \$35.00 \$71.93	ea ea ea ea ea LS ea Unit day		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00
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 Air Undudual Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$550.00 \$35.00 \$71.93	ea ea ea ea ea LS ea Unit day		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00
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 Air Undudual Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$550.00 \$35.00 \$71.93	ea ea ea ea ea LS ea Unit day		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00
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 Sub-Slab Air TO-15 Indoor Air Air Indoor Air Air Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$550.00 \$35.00 \$71.93	ea ea ea ea ea LS ea Unit day		Markup 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	\$0.00  Subtotal \$0.00

Field Vehicle - Full Day \$ 20.00 \$ 130.00 \$ 130.00 \$ daily use over 230 miles)	ubtotal
\$ 0.50	
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	
Meters Flow Calibrator \$ 30.00	
PID or 580 OVM \$ 120.00 Turbidity Meter \$ 30.00	
ppb RAE \$ 175.00	
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	
Pumping Test Accessory Equipment (Flow Meters/Manifold \$ 100.00	
Portable SVE Unit - 1.5 HP \$ 155.00 Intrinsically Safe Vapor Evacuation Blower \$ 125.00	
Pneumatic Low-Flow Sampling Kit w/ Flow Cell and	
Multimeter \$ 270.00	
Asbestos Sampling Kit \$ 250.00	
Asbestos Investigation Supplies \$ 130.00	
Asbestos Sampling Core \$ 2.50	
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	
Metal Detector \$ 50.00	
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 \$ 265.00	
Helium QA/QC Accessories \$ 20.00	
Oil/Water Interface Probe \$ 105.00 Padlocks \$ 15.00	
Steam Cleaner \$ 130.00	
Transducer (ea) \$ 40.00	
Coring Machine \$ 200.00	
Other Rotary Hammer Drill \$ 170.00	
Hand Drill \$ 75.00	
Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8" (\$ 1.50	
Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4" (\$ 1.20	
Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" \$ 1.25	
Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per f \$ 1.10	
Tubing - Polyethylene: 1/4" OD (per foot) \$ 0.60	
Tubing - Polyethylene: 1/2" OD (per foot) \$ 0.85	
Tubing - Tygon: 3/8" STD (per foot) \$ 4.45  Tubing - Silicone: 3/8" STD (per foot) \$ 4.50	
PFA Tubing - 1/2-inch ID \$ 5.00	
55-Gallon Drum \$ 55.00	
Temporary Sampling Port \$ 25.00	
Vapor Pin Sub-Slab Sampling Port \$ 75.00	
Sub-Slab Cover (Stainless Steel) \$ 40.00	
Well Cover 8X12" \$ 105.00	
Measuring Wheel \$ 15.00	
Camera \$ 25.00	
1L Tedlar Bag \$ 20.00	
1L Tedlar Bag     \$ 20.00       Radon Sample Kit     \$ 30.00	
IL Tedlar Bag       \$ 20.00         Radon Sample Kit       \$ 30.00         HAZMAT Exemption Shipper       \$ 40.00	
1L Tedlar Bag       \$ 20.00         Radon Sample Kit       \$ 30.00         HAZMAT Exemption Shipper       \$ 40.00         Manometers       \$ 105.00	
IL Tedlar Bag       \$ 20.00         Radon Sample Kit       \$ 30.00         HAZMAT Exemption Shipper       \$ 40.00	
1L Tedlar Bag       \$ 20.00         Radon Sample Kit       \$ 30.00         HAZMAT Exemption Shipper       \$ 40.00         Manometers       \$ 105.00         Westlaw       \$ 105.00	
IL Tedlar Bag       \$ 20.00         Radon Sample Kit       \$ 30.00         HAZMAT Exemption Shipper       \$ 40.00         Manometers       \$ 105.00         Westlaw       \$ 105.00         CAD/drafting/graphics       \$ 90.00	
1L Tedlar Bag	
IL Tedlar Bag	
1L Tedlar Bag	
1L Tedlar Bag	
11. Tedlar Bag	
11. Tedlar Bag   \$ 20.00	
11. Tedlar Bag	
IL Tedlar Bag	
1L Tedlar Bag	
11. Tedlar Bag	2.40
IL Tedlar Bag	2.40
IL Tedlar Bag	
11. Tedlar Bag	2.40
11. Tedlar Bag	
IL Tedlar Bag	15.00

Date:

SSDS Testing & Vapor Intrusion Assessments

6420 / Former Dutch Cleaners

3/21/2018



\$0.00 \$360.00

\$360.00

## Phase 3b Vapor Mitigation System Installation Labor - Field Subtotal Price Unit # Units Task Total \$200.00 \$0.00 Principal \$175.00 \$0.00 Director hr \$155.00 Sr Project Manager hr \$0.00 Sr Professional \$155.00 \$0.00 Project Manager \$130.00 hr \$0.00 \$0.00 Project Professional \$130.00 hr Staff Professional-Office \$120.00 hr \$0.00 Staff Professional-Field \$120.00 hr \$0.00 24.0 Field Professional \$95.00 hr \$2,280.00 Drafting \$85.00 \$0.00 \$65.00 hr \$0.00 Compliance Specialist \$0.00 Vapor Intrusion Specialist \$0.00 \$0.00 Health and Safety Specialist \$0.00 \$2,280.00 \$2,280.00 Labor - Office/Reporting Price Unit # Units Subtotal Task Total Principal \$200.00 \$0.00 Director \$175.00 hr \$0.00 Sr Project Manager \$155.00 hr \$0.00 \$155.00 hr 4.0 \$620.00 Sr Professional Project Manager \$130.00 hr \$0.00 Project Professional \$130.00 hr \$0.00 \$120.00 \$0.00 Staff Professional-Office hr Staff Professional-Field \$120.00 hr \$0.00 8.0 Field Professional \$95.00 \$760.00 \$85.00 Drafting hr \$0.00 \$65.00 \$0.00 hr Admin \$0.00 Compliance Specialist Vapor Intrusion Specialist \$0.00 Health and Safety Specialist \$0.00 hr \$0.00 \$1,380.00 \$1,380.00 Contractors/Consultants Price Unit # Units Markup Subtotal Task Total Utility Locate \$0.00 LS Driller LS 1.00 \$0.00 Surveyor LS 1.00 \$0.00 LS 1.00 \$0.00 Waste Disposal WDNR Review Fee 1.00 \$0.00 Remediation LS 1.00 \$0.00 \$10,047.00 1.0 Vapor Protection Services LS 1.00 \$10.047.00 1.00 \$0.00 1.00 \$0.00 1.00 \$0.00 \$10,047.00 \$10,047.00 Contractor/Consultant - Laboratory Price Unit # Units Markup Subtotal Soil VOC 8260 dry wt \$71.93 \$71.93 1.00 \$0.00 Soil VOC 8260 dry wt QA/QC \$0.00 ea 1.00 GW VOC 8260 \$71.93 ea 1.00 \$0.00 GW VOC 8260 QA/QC \$71.93 1.00 ea Air TO-15 -- Soil Gas 1.00 \$0.00 Air TO-15 -- Sub-Slab \$180.00 ea 1.00 \$0.00 Air TO-15 -- Indoor Air \$180.00 1.00 \$0.00 ea Air - Indivudual Certification \$50.00 1.00 \$0.00 ea Air - Batch Certification \$50.00 LS 1.00 \$0.00 Trip Blank VOCs 8260 \$71.93 ea 1.00 \$0.00 \$75.00 1.00 ea \$95.00 1.00 \$0.00 \$0.00 \$0.00 Direct Costs - Expenses Price Unit # Units Markup Subtotal Hotel \$120.00 2.0 1.00 \$240.00 day Meals \$60.00 LS 1.00 \$120.00 Misc Materials LS 1.00 \$0.00 Equipment Rental \$0.00 \$0.00 \$0.00 \$0.00

Cell Vehicle Full Day		Direct Costs - Chargeable Equipment Expense	Rat	te (hr/unit)	# Hrs/Units	Rat	e (day/use)	# days/use	Subtotal	
Weblies   A Vexic II SE Reinfursement Rule couch only for one 270 miles)   A Vexic Meter (op use)   A Vexic Meter (op use)   A Section 1.500		Ü î î	_			_				İ
Mark   1900 core 7.30 mick)   S	Vehicles	-	Ĺ					2.20		1
Maller and Conductively More (per was) Maller and Conductively More (per was) Described Oxygan Mare PER FACKOROSANDAY (TIP) Per 530 OVM Pe			¢	0.56						1
Motion control Conductivity (FT from PTDS)		,	ф	0.50		¢.	25.00			i
Motors										i
Meters   Filt Pouchono Sensipher (TIP)										i
Proceedings						_				i
Pitto of Sto OVNA	M-4		-							i
Turbility Meer	Meters		-							i
Promps   Part   Promps   Part   Promps   Part   P			-							i
ORP Meter										i
A Pump - Low Flow (Baread)   S   25.00   Declepent Pump										i
Development Pump										i
Electric Submerships Pump with Control Box (Unito)   S   120.0   S   130.00										i
Description   Purple   Purpl										i
Pumps   Pumps   Fertable Pump   Pumps   End Accessor Equipment (Flow Meters/Manifol   \$ 100.00   \$ 155.00   \$   Purtable SVE Unit - 15 HP   Pumps   End Accessor Equipment (Flow Meters/Manifol   \$ 100.00   \$ 155.00   \$   Purtable SVE Unit - 15 HP   Pumps   \$ 125.00   \$   Pumps   \$ 125.00   Pumps						\$	130.00			i
Pumping Text Accessory Equipment (Phow Meters Affantion)   S   100.00		Low-Flow Sampling Bladder	\$	12.00						i
Description   Color Notes   Color National   Color Nati	Dumns	Peristaltic Pump				\$	105.00			i
Intrinsically Safe Vaper Foucation Blower   S   125.00	rumps		\$	100.00						i
Precuratic Low-Prov Sampling Kit w Flow Cell and Moltimeter   S 270,00   Abbestos Sampling Kit   S 250,00   Abbestos Sampling Crow   S 2,50   S 320,00   Abbestos Sampling Crow   S 15,00   S 15,0		Portable SVE Unit - 1.5 HP				\$	155.00			i
Asbestos Sampling Kit		Intrinsically Safe Vapor Evacuation Blower				\$	125.00			i
Achestes Sampling Kit Ashestes Sampling Core Ballers (Othopashle) Core Banese S 10.00 Core Sampler Data Longer with Transducer Well Caps Well Caps Ballers (Well Annual Core) Ballers (Well Caps) B										i
Asbestos Sampling Kit Asbestos Sampling Core Ballers (Osto) passage (1998) Core Broses Core Sampler Data Logger with Transducer Vell Caps Well Cap		Multimeter				\$	270.00			i
Asbestos Investigacion Stopplies		Ashestos Sampling Vit								i
Asbeston Sampling Cree   \$ 2.50								1		1
Bailers (One) Deposable) Bailers (Nort-Disposable) Core Boxes S 10.00 Bailers (Nort-Disposable) Core Boxes S 10.00 Data Logger with Transducer Weil Capa Bec. Weil Sounder (Probe) Bec. Weil Sounder (Probe) S 30.00 Filter Large S 18.00 Filter Large S 18.00 Filter Large S 18.00 Filter Small S 9.00 Generator Bedan August S 20.00 Bellam QA-OC Kit Bellam QA-OC Kit Bellam QA-OC Kit Bellam QA-OC Accessories Bellam QA-OC Accessories Description of the State of the St			¢	2.50	1	T o	130.00		<b>-</b>	ĺ
Bailers (Non-Disposable)					+				-	1
Core Boxes			3	10.00		6	15.00		<b> </b>	ĺ
Core Sampler			*	10.00		\$	15.00			1
Data Logger with Transducer			\$	10.00	<b></b>					ĺ
Well Cape   S   30.00										i
Elec. Well Sounder (Probe)						\$	155.00			i
Metal Detector			\$	30.00	<u> </u>					i
Side   Sample Kit										i
Filed Book						\$	50.00			i
Filter - Large		5035 Sample Kit	\$	16.00						i
Filter - Small		Field Book	\$	11.00						i
Generator		Filter - Large	\$	18.00						i
Generator			\$							i
Hand Auger						\$	105.00			i
Helium QA/QC Kat										i
Helium QA/OC Accessories   S   20.00   S   105.00   S										i
Oil Water Interface Probe			\$	20.00		Ψ	203.00			i
Padlocks   S   15.00   S   130.00			Ψ	20.00		¢	105.00			i
Steam Cleaner			\$	15.00		φ	105.00			i
Transducer (ca)			Ф	15.00		¢	120.00			i
Other   Coring Machine   S 200.00   Received   S 170.00   Receiv										i
Rotary Hammer Drill			-							i
Hand Drill   Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8" ( \$ 1.50 )	Other		-							i
Tubing (Bonded) - Polyethylene (Teflon): 14" OD X 3/8" (\$ 1.50   Tubing (Bonded) - Polyethylene (Teflon): 116" OD X 1/4" (\$ 1.20   Tubing (Bonded) - Polyethylene (Teflon): 116" OD X 1/4" (\$ 1.25   Tubing (Bonded) - Polyethylene: 14" OD X 3/8" OD (per f \$ 1.10   Tubing - Polyethylene: 14" OD Experiment (\$ 1.10										i
Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" S 1.2.0  Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" S 1.2.5  Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per 1 S 1.1.0  Tubing - Polyethylene: 1/4" OD (per foot) S 0.60  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Polyethylene: 1/4" OD (per foot) S 0.88  Tubing - Silone: 3/8" STD (per fo						\$	75.00			i
Tubing (Bonded) - Polyethylene (Teflon) : 1/16" OD X 1/4" S 1.25 Tubing (Bonded) - Polyethylene : 1/4" OD X 3/8" OD (per f S 1.10 Tubing - Polyethylene : 1/4" OD (per foot) S 0.60 Tubing - Polyethylene : 1/4" OD (per foot) S 0.85 Tubing - Polyethylene : 1/2" OD (per foot) S 0.85 Tubing - Tygon: 38" STD (per foot) S 4.45 Tubing - Silicone: 3/8" STD (per foot) S 4.45 Tubing - Silicone: 3/8" STD (per foot) S 4.45 Tubing - 1/2-inch ID S 5.00 S5-Gallon Drum S 5.50.0 Temporary Sampling Port S 25.00 Vapor Pin Sub-Slab Sampling Port S 75.00 Sub-Slab Cover (Stainless Steel) S 40.00 Well Cover 8X12" S 105.00 Measuring Wheel S 15.00 Camera S 25.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) S 105.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) S 105.00 Camera S 25.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) S 105.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) S 105.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) S 105.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) S 105.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) S 105.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) S 105.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) S 105.00 Tubing - Silicone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) Sub-Slab Cover (Stainless Steel) Sub-Slab Sub					<u> </u>					i
Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (perf \$ 1.10										i
Tubing - Polyethylene: 1/2" OD (per foot)   \$ 0.60   Tubing - Polyethylene: 1/2" OD (per foot)   \$ 0.85   Tubing - Polyethylene: 1/2" OD (per foot)   \$ 0.85   Tubing - Tygon: 3/8" STD (per foot)   \$ 4.45   Tubing - Silicone: 3/8" STD (per foot)   \$ 4.50   PPA Tubing - 1/2" inch ID   \$ 5.00   S 5.00   Tubing - Silicone: 3/8" STD (per foot)   \$ 4.50   PPA Tubing - 1/2" inch ID   \$ 5.00   S 5.50   Tubing - Silicone: 3/8" STD (per foot)   \$ 4.50   PPA Tubing - 1/2" inch ID   \$ 5.00   Tubing - Silicone: 3/8" STD (per foot)   \$ 4.50   Tubing - Silicone: 3/8" STD (per foot)   \$ 4.50   Tubing - Silicone: 3/8" STD (per foot)   \$ 5.500   Tubing - Silicone: 3/8" STD (per foot)   \$ 5.500   Tubing - Silicone: 3/8" STD (per foot)   \$ 5.500   Tubing - Silicone: 3/8" STD (per foot)   \$ 5.500   Tubing - Silicone: 3/8" State - Sili										i
Tubing - Polyethylene: 12" OD (per foot)   \$ 0.85   Tubing - Tygon: 38" STD (per foot)   \$ 4.45   Tubing - Silicone: 38" STD (per foot)   \$ 4.45   Tubing - Silicone: 38" STD (per foot)   \$ 4.50   Tubing - Silicone: 38" STD (per foot)   \$ 4.50   Tubing - Silicone: 38" STD (per foot)   \$ 4.50   Tubing - Silicone: 38" STD (per foot)   \$ 4.50   Tubing - Silicone: 38" STD (per foot)   \$ 5.00   Tubing - Silicone: 38" STD (per foo										i
Tubing - Tygon: 3/8" STD (per foot)										i
Tubing - Silicone: 3/8" STD (per foot)		Tubing - Polyethylene: 1/2" OD (per foot)	\$							i
PFA Tubing - 1/2-inch ID		Tubing - Tygon: 3/8" STD (per foot)	\$	4.45						i
S-Gallon Drum		Tubing - Silicone: 3/8" STD (per foot)	\$	4.50						i
S-Gallon Drum			\$							i
Temporary Sampling Port			\$		1					i
Vapor Pin Sub-Slab Sampling Port   \$ 75.00   Sub-Slab Cover (Stainless Steel)   \$ 40.00   Well Cover 8X12"   \$ 105.00   S 15.00   S 15										i
Sub-Slab Cover (Stainless Steel)   \$ 40.00			_							i
Well Cover 8X12"   \$ 105.00					1					i
Measuring Wheel					1					i
Camera						\$	15.00			i
IL Tedlar Bag   \$ 20.00								i e	1	i
Radon Sample Kit			\$	20.00		Ť				i
HAZMAT Exemption Shipper					+					i
Manometers   \$ 105.00					†				<del> </del>	i
Westlaw					1					i
CAD/drafting/graphics   \$ 90.00					<del>                                     </del>					i
Cones, Baracades & Traffic Signs   S   10.00   S					<del> </del>				l	i
Safety   Level "CI" plus SCBA   \$ 210.00			\$	90.00						i
Level "B": Level "C1" plus SCBA   \$ 210.00						\$	10.00			i
Level "C1": Level "C2" plus Polycoat Suit   \$ 85.00			\$	10.00	<u> </u>					i
Level "C2": Level "D" plus Respirator   \$ 40,00   \$ 130.00   \$ 130.00   \$ 130.00   \$ 130.00   \$ 130.00   \$ 150.00   \$ 1 1 Inch Binder   \$ 9,00   \$ 1 1 Inch Binder   \$ 12,00   \$ 1 1 Inch Binder   \$ 12,00   \$ 1 1 Inch Binder   \$ 15,00   \$ 1 Inch Binder   \$ 15,00   \$ 1 Inch Binder   \$ 15,00   \$ 1 Inch Bind								<u> </u>		i
Level "C2": Level "D" plus Respirator   \$ 40,00   \$ 130.00   \$ 130.00   \$ 130.00   \$ 130.00   \$ 130.00   \$ 150.00   \$ 1 1 Inch Binder   \$ 9,00   \$ 1 1 Inch Binder   \$ 12,00   \$ 1 1 Inch Binder   \$ 12,00   \$ 1 1 Inch Binder   \$ 15,00   \$ 1 Inch Binder   \$ 15,00   \$ 1 Inch Binder   \$ 15,00   \$ 1 Inch Bind	Safety									i
Standby SCBA						\$	40.00			i
Routine Field and Safety Equipment   \$ 50.00 \$ 3.00 \$ 150.00						\$				i
1 Inch Binder   \$ 9,00								\$ 3.00	\$ 150.00	i
2 Inch Binder   \$ 12.00		3 1 1	\$	9.00						i
3 Inch Binder					1					i
4 Inch Binder       \$ 22.00         Binder Tabs (Set of 8)       \$ 5.00         Color Copies       \$ 0.40       21       \$ 8.40         B/W Copies       \$ 0.25       5         Document - Format/Sending       \$ 15.00       5         Report CD Copy       \$ 5.00       \$ \$548.40					†				<del>                                     </del>	i
Binder Tabs (Set of 8)         \$ 5.00           Color Copies         \$ 0.40         21         \$ 8.40           B/W Copies         \$ 0.25         \$ 0.00         \$ 0.00         \$ 0.00           Document - Format/Sending         \$ 15.00         \$ 0.					†					i
Color Copies         \$ 0.40         21         \$ 8.40           BW Copies         \$ 0.25         \$ 0.25           Document - Format/Sending         \$ 15.00         \$ 0.25           Report CD Copy         \$ 5.00         \$ 0.25           \$ 548.40         \$ 0.25	Droductic		_		+				-	i
B/W Copies \$ 0.25	1 roudcuoi				21				¢ 0.40	i
Document - Format/Sending   \$ 15.00					∠1				φ 8.40	i
Report CD Copy \$ 5.00 \$ \$548.40 <b>\$54</b>					<del> </del>					i
\$548.40 <b>\$54</b>					<del> </del>					i
			- 8	5.00	i .					1
DILL CE MOMAL		Report CD Copy	Ψ			_		•		
DHASE TOTAL \$14.4		Report CD Copy	Ψ						\$548.40	\$548.40

Date:

SSDS Testing & Vapor Intrusion Assessments

6420 / Former Dutch Cleaners

3/21/2018



\$0.00 \$0.00

\$0.00

### Phase 3c Vapor Mitigation System Commissioning Labor - Field Subtotal Price Unit # Units Task Total \$0.00 Principal \$200.00 hr \$175.00 \$0.00 Director hr Sr Project Manager \$155.00 hr \$0.00 Sr Professional \$155.00 \$0.00 Project Manager \$130.00 hr \$0.00 \$130.00 Project Professional hr \$0.00 Staff Professional-Office \$120.00 hr \$0.00 Staff Professional-Field \$120.00 hr \$0.00 20.0 Field Professional \$95.00 hr \$1,900.00 \$85.00 hr \$0.00 Drafting \$65.00 hr \$0.00 Compliance Specialist \$0.00 Vapor Intrusion Specialist \$0.00 \$0.00 Health and Safety Specialis \$0.00 \$1,900.00 \$1,900.00 Labor - Office/Reporting Price Unit # Units Subtotal Task Total Principal \$200.00 \$0.00 Director \$175.00 hr \$0.00 Sr Project Manager Sr Professional \$155.00 hr \$0.00 \$155.00 hr 4.0 \$620.00 Project Manager \$130.00 hr \$0.00 Project Professional \$130.00 hr \$0.00 12.0 \$1,440.00 Staff Professional-Office \$120.00 hr \$120.00 \$0.00 Staff Professional-Field hr 8.0 Field Professional \$95.00 hr \$760.00 Drafting \$85.00 hr \$0.00 \$65.00 \$0.00 hr Admin \$0.00 Compliance Specialist Vapor Intrusion Specialist \$155.00 hr 1.0 \$155.00 Health and Safety Specialist \$0.00 hr \$0.00 \$2,975.00 \$2,975.00 Contractors/Consultants Price Unit # Units Markup Subtotal Task Total \$0.00 Utility Locate 1.00 LS Driller LS 1.00 \$0.00 Surveyor LS 1.00 \$0.00 LS 1.00 \$0.00 Waste Disposal WDNR Review Fee LS 1.00 \$0.00 Remediation LS 1.00 \$0.00 1.00 \$0.00 1.00 \$0.00 \$0.00 1.00 \$0.00 \$0.00 \$0.00 Contractor/Consultant - Laboratory Price Unit # Units Markup Subtotal Soil VOC 8260 dry wt \$71.93 1.00 \$0.00 Soil VOC 8260 dry wt QA/QC \$71.93 \$0.00 ea 1.00 GW VOC 8260 \$71.93 ea 1.00 \$0.00 GW VOC 8260 QA/QC \$0.00 ea Air TO-15 -- Soil Gas 1.00 \$0.00 Air TO-15 -- Outdoor Background \$180.00 ea 1.00 \$360.00 Air TO-15 -- Indoor Air \$180.00 2.0 \$360.00 ea Air - Indivudual Certification \$50.00 4.0 1.00 \$200.00 ea Air - Batch Certification \$50.00 LS 1.00 \$0.00 \$71.93 Trip Blank VOCs 8260 ea 1.00 \$0.00 Microbial Analyses \$425.00 1.00 ea 1.00 \$0.00 \$920.00 \$920.00 Direct Costs - Expenses Price Unit # Units Markup Subtotal Hotel \$120.00 1.00 \$0.00 day Meals \$60.00 LS 1.00 \$0.00 Misc Materials LS 1.00 \$0.00 Equipment Rental LS \$0.00 \$0.00 \$0.00 \$0.00

Vehicles  Meters	Direct Costs - Chargeable Equipment Expense Field Vehicle - Full Day Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles) Air Velocity Meter (per use) Multi-meter Conductivity/pH/Temp/TDS	\$	20.00 0.56	# Hrs/Units	\$	130.00	# days/use 2.00	\$ 260.00
	Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles) Air Velocity Meter (per use)	\$						
Meters	daily use over 230 miles) Air Velocity Meter (per use)	\$	0.56	i l				
Meters			0.50					
Meters	Multi-meter Conductivity/pH/Temp/TDS				\$	25.00		
Meters					\$	165.00		
Meters	Dissolved Oxygen Meter FID Foxboro/Sensidyne (TIP)				\$	40.00		
Wicters	Flow Calibrator				\$	155.00 30.00		
	PID or 580 OVM				\$	120.00		
	Turbidity Meter				\$	30.00		
	ppb RAE				\$	175.00		
	ORP Meter				\$	30.00		
	Air Pump - Low Flow (Barcad)				\$	25.00		
	Development Pump  Electric Submergible Pump with Central Pey (Units)				\$	130.00		
	Electric Submersible Pump with Control Box (Units)  Low-Flow Sampling Bladder	\$	12.00		\$	130.00		
	Peristaltic Pump	φ	12.00		\$	105.00		
Pumps	Pumping Test Accessory Equipment (Flow Meters/Manifold	\$	100.00		_	-		
	Portable SVE Unit - 1.5 HP				\$	155.00		
	Intrinsically Safe Vapor Evacuation Blower				\$	125.00		
	Pneumatic Low-Flow Sampling Kit w/ Flow Cell and Multimeter				dr.	270.00		
					\$	270.00 250.00		
	Asbestos Sampling Kit Asbestos Investigation Supplies				\$	130.00		
	Asbestos Sampling Core	\$	2.50		Ť	150.00		
	Bailers (Disposable)	\$	10.00					
	Bailers (Non-Disposable)				\$	15.00		
	Core Boxes	\$	10.00		¢	22.00		
	Core Sampler Data Logger with Transducer				\$	55.00 155.00		
	Well Caps	\$	30.00		\$	133.00		
	Elec. Well Sounder (Probe)	φ	50.00		\$	30.00		
	Metal Detector				\$	50.00		
	5035 Sample Kit	\$	16.00					
	Field Book	\$	11.00					
	Filter - Large	\$	18.00					
	Filter - Small	\$	9.00		¢	105.00		
	Generator Hand Auger				\$	30.00		
	Helium QA/QC Kit				\$	265.00		
	Helium QA/QC Accessories	\$	20.00		Ψ	203.00		
	Oil/Water Interface Probe	7			\$	105.00		
	Padlocks	\$	15.00					
	Steam Cleaner				\$	130.00		
	Transducer (ea)				\$	40.00		
Other	Coring Machine				\$	200.00		
	Rotary Hammer Drill Hand Drill				\$	170.00 75.00		
	Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8" (	\$	1.50		Ф	75.00		
	Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4" (	\$	1.20					
	Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4"  Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4"	\$	1.25					
	Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per f	\$	1.10					
	Tubing - Polyethylene: 1/4" OD (per foot)	\$	0.60					
	Tubing - Polyethylene: 1/2" OD (per foot)	\$	0.85					
	Tubing - Tygon: 3/8" STD (per foot)	\$	4.45					
	Tubing - Silicone: 3/8" STD (per foot) PFA Tubing - 1/2-inch ID	\$	4.50 5.00					
	PFA Tubing - 1/2-inch ID 55-Gallon Drum	\$	55.00		H			
	Temporary Sampling Port	\$	25.00					
	Vapor Pin Sub-Slab Sampling Port	\$	75.00					
	Sub-Slab Cover (Stainless Steel)	\$	40.00					
	Well Cover 8X12"	\$	105.00					
	Measuring Wheel				\$	15.00		
	Camera	¢	20.00		\$	25.00		
	1L Tedlar Bag Radon Sample Kit	\$	20.00 30.00		H			
	HAZMAT Exemption Shipper	\$	40.00					
	Manometers Manager Lacentral Exemption Shipper	\$	105.00	2.00				\$ 210.00
	Westlaw	\$	105.00					
	CAD/drafting/graphics	\$	90.00					
	Cones, Baracades & Traffic Signs				\$	10.00		
	Gloves (Chemical Resistant)	\$	10.00					
C-C-	Level "B": Level "C1" plus SCBA				\$	210.00		
Safety	Level "C1": Level "C2" plus Polycoat Suit				\$	85.00		
	Level "C2": Level "D" plus Respirator Standby SCBA				\$	40.00 130.00		
	Routine Field and Safety Equipment				\$	50.00	2.00	\$ 100.00
	1 Inch Binder	\$	9.00		Ť	55.00	2.00	. 100.00
	2 Inch Binder	\$	12.00					
	3 Inch Binder	\$	15.00					
	4 Inch Binder	\$	22.00					
roduction	Binder Tabs (Set of 8)	\$	5.00					
	Color Copies	\$	0.40	6				\$ 2.40
	B/W Copies	\$	0.25					
	Document - Format/Sending  Report CD Copy	\$	15.00 5.00					
	Report CD Copy	Э	5.00					\$572.40
		_						\$312.4U
	PHASE	ТО	TAL					

SSDS Testing & Vapor Intrusion Assessments 6420 / Former Dutch Cleaners



\$0.00

\$0.00

	0120710111101				
	3/21/2018				
	Phase 3d Vapor Mit	igation Sy	stem O&M Plan	Development	
Labor - Field	Price	Unit	# Units	Subtotal	Task T
Principal	\$200.00	hr		\$0.00	
Director	\$175.00	hr		\$0.00	
Sr Project Manager	\$155.00	hr		\$0.00	
Sr Professional	\$155.00	hr		\$0.00	
Project Manager	\$130.00	hr		\$0.00	
Project Professional	\$130.00	hr		\$0.00	
Staff Professional-Office	\$120.00	hr		\$0.00	
Staff Professional-Field	\$120.00	hr		\$0.00	
Field Professional	\$95.00	hr		\$0.00	
Drafting	\$85.00	hr		\$0.00	
Admin	\$65.00	hr		\$0.00	
Compliance Specialist				\$0.00	
Vapor Intrusion Specialist				\$0.00	
Health and Safety Specialist				\$0.00	
		hr		\$0.00	
			•	\$0.00	\$0.0
Labor - Office/Reporting	Price	Unit	# Units	Subtotal	Task T
	\$200.00		# Units	\$0.00	1 ask 1
Principal Director	\$175.00	hr		\$0.00	
	\$175.00 \$155.00	hr			
Sr Project Manager Sr Professional	\$155.00 \$155.00	hr hr	0.5	\$0.00 \$77.50	
	\$130.00	hr	0.3	\$0.00	
Project Manager Project Professional	\$130.00	hr	6.0	\$780.00	
			0.0		
Staff Professional-Office	\$120.00	hr		\$0.00	
Staff Professional-Field	\$120.00	hr		\$0.00	
Field Professional	\$95.00	hr		\$0.00 \$0.00	
Drafting	\$85.00	hr	ļ		
Admin	\$65.00	hr	1	\$0.00	
Compliance Specialist	\$155.00		0.5	\$0.00	
Vapor Intrusion Specialist Health and Safety Specialist	\$155.00	hr	0.5	\$77.50	
THealth and Satety Specialist	1			\$0.00	
Treath and Surety Specialist	1	•			
Fredhi and Surety Specialist		hr		\$0.00 \$935.00	\$935.

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Ta
Utility Locate  Utility Locate	Price	LS	# Units	1.00	\$0.00	18
Driller	$\rightarrow$	LS		1.00	\$0.00	
	_	LS			\$0.00	
Surveyor	_	LS		1.00		
Waste Disposal	_	LS			\$0.00 \$0.00	
Historical Database Report Remediation		LS		1.00	\$0.00	
Remediation		LS				
				1.00	\$0.00	
				1.00	\$0.00	
				1.00	\$0.00	
				1.00	\$0.00	
					\$0.00	
C	n.	** **	# <b>*</b> * * * * * * * * * * * * * * * * * *		G 14 4 1	
Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	\$71.93	ea		1.00	\$0.00	
Soil VOC 8260 dry wt QA/QC	\$71.93	ea		1.00	\$0.00	
GW VOC 8260	\$210.00	ea		1.00	\$0.00	
GW VOC 8260 QA/QC	\$71.93	ea		1.00	\$0.00	
Air TO-15 Soil Gas		ea		1.00	\$0.00	
Air TO-15 Sub-Slab	\$40.00	ea		1.00	\$0.00	
Air TO-15 Indoor Air	\$110.00	ea		1.00	\$0.00	
Air - Indivudual Certification	\$200.00	ea		1.00	\$0.00	
Air - Batch Certification	\$35.00	LS		1.00	\$0.00	
Trip Blank VOCs 8260	\$50.00	ea		1.00	\$0.00	
Level IV QA/QC (15%)	\$71.93				\$0.00	
					\$0.00	
<b>L</b>	Price	Unit	# Units	Markup	Subtotal	
	Price \$120.00	Unit day	# Units	Markup 1.00	Subtotal \$0.00	
Hotel Meals		day LS	# Units	1.00	\$0.00 \$0.00	
Hotel Meals Misc Materials	\$120.00	day LS LS	# Units	1.00 1.00 1.00	\$0.00 \$0.00 \$0.00	
Hotel Meals Misc Materials	\$120.00	day LS	# Units	1.00	\$0.00 \$0.00 \$0.00 \$0.00	
Direct Costs - Expenses Hotel Meals Misc Materials Equipment Rental	\$120.00	day LS LS	# Units	1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
Hotel Meals Misc Materials	\$120.00	day LS LS	# Units	1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
Hotel Meals Misc Materials	\$120.00	day LS LS	# Units	1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
Hotel Meals Misc Materials	\$120.00	day LS LS	# Units	1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	

Direct Costs - Chargeable Equipment Expense Field Vehicle - Full Day  Vehicles Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles)	_	e (hr/unit)				# dove/wee	Subtotal
Vehicles Mileage at Federal IRS Reimbursement Rate (used only for	\$	20.00	# Hrs/Units	\$	(day/use) 130.00	# days/use	Subtotai
raneage at 1 ederat has remisurationed rate (asea only for	Ť	_3.00		Ť	3.00		
	\$	0.560					
Air Velocity Meter (per use)	Ť			\$	25.00		
Multi-meter Conductivity/pH/Temp/TDS				\$	165.00		
Dissolved Oxygen Meter				\$	40.00		
FID Foxboro/Sensidyne (TIP)				\$	155.00		
Meters Flow Calibrator PID or 580 OVM				\$	30.00 120.00		
Turbidity Meter				\$	30.00		
ppb RAE				\$	175.00		
ORP Meter				\$	30.00		
Air Pump - Low Flow (Barcad)				\$	25.00		
Development Pump				\$	130.00		
Electric Submersible Pump with Control Box (Units)		12.00		\$	130.00		
Low-Flow Sampling Bladder Peristaltic Pump	\$	12.00		¢.	105.00		
Pumps Pumping Test Accessory Equipment (Flow Meters/Manifole	d \$	100.00		\$	105.00		
Portable SVE Unit - 1.5 HP	φ	100.00		\$	155.00		
Intrinsically Safe Vapor Evacuation Blower				\$	155.00		
Pneumatic Low-Flow Sampling Kit w/ Flow Cell and							
Multimeter				\$	270.00		
Asbestos Sampling Kit				\$	250.00		
Asbestos Investigation Supplies				\$	130.00		
Asbestos Sampling Core	\$	2.50					
Bailers (Disposable) Bailers (Non-Disposable)	\$	10.00		\$	15.00		
Core Boxes	\$	10.00		٥	15.00		
Core Sampler	φ	10.00		\$	55.00		
Data Logger with Transducer				\$	155.00		
Well Caps	\$	30.00					
Elec. Well Sounder (Probe)				\$	30.00		
Metal Detector				\$	50.00		
5035 Sample Kit	\$	16.00					
Field Book	\$	11.00					
Filter - Large Filter - Small	\$	18.00 9.00					
Generator	φ	7.00		\$	105.00		
Hand Auger				\$	30.00		
Helium QA/QC Kit				\$	265.00		
Helium QA/QC Accessories	\$	20.00					
Oil/Water Interface Probe				\$	105.00		
Padlocks	\$	15.00					
Steam Cleaner				\$	130.00		
Transducer (ea) Coring Machine				\$	40.00 200.00		
Other Rotary Hammer Drill				\$	170.00		
Hand Drill				\$	75.00		
Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8"		\$1.50		7			
Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4"		\$1.20					
Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4		\$1.25					
Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per	f	\$1.10					
Tubing - Polyethylene: 1/4" OD (per foot)	1	\$0.60					
Tubing - Polyethylene: 1/2" OD (per foot)	1	\$0.85 \$4.45					
Tubing - Tygon: 3/8" STD (per foot) Tubing - Silicone: 3/8" STD (per foot)	1	\$4.45					
PFA Tubing - 1/2-inch ID	t	\$5.00					
55-Gallon Drum	\$	55.00					
Temporary Sampling Port	\$	25.00					
Soil Gas Sampling Port	\$	75.00					
Sub-Slab Cover (Stainless Steel)	\$	40.00					
Well Cover 8X12"	\$	105.00		¢	15.00		
Measuring Wheel Camera				\$	15.00		
Camera 1L Tedlar Bag	¢	20.00		Þ	25.00		
Radon Sampling Kit	\$	30.00					
HAZMAT Exemption Shipper	\$	40.00					
Manometers		\$105.00					
Westlaw		\$105.00					
CAD/drafting/graphics		\$90.00					
Cones, Baracades & Traffic Signs				\$	10.00		
Gloves (Chemical Resistant)	\$	10.00					
Level "B": Level "C1" plus SCBA				\$	210.00		
Safety Level "C1": Level "C2" plus Polycoat Suit				\$	85.00		
Level "C2": Level "D" plus Respirator				\$	40.00 130.00		
Standby SCBA Routine Field and Safety Equipment				\$	50.00		
1 Inch Binder	\$	9.00		φ	50.00		
2 Inch Binder	\$	12.00					
	\$	15.00					
3 Inch Binder	\$	22.00					
3 Inch Binder 4 Inch Binder	\$	5.00					
4 Inch Binder			20				\$8.00
4 Inch Binder	\$	0.40	20				
4 Inch Binder Production Binder Tabs (Set of 8) Color Copies B:W Copies	\$	0.25	20				
4 Inch Binder Binder Tabs (Set of 8) Color Copies B/W Copies Document - Format/Sending	\$ \$ \$	0.25 15.00	20				
4 Inch Binder Production Binder Tabs (Set of 8) Color Copies B/W Copies	\$	0.25	20				
4 Inch Binder Binder Tabs (Set of 8) Color Copies B/W Copies Document - Format/Sending	\$ \$ \$	0.25 15.00	20				\$8.00

SSDS Testing & Vapor Intrusion Assessments 6420 / Former Dutch Cleaners



	3/21/2018			-	
	Phase 3e Project Co	ordination	& Manage	ment	
	Thase se Troject Co	oi umatioi	C Manage	inciit	
Labor - Field	Price	Unit	# Units		Subtotal
Principal	\$200.00	hr			\$0.00
Director	\$175.00	hr			\$0.00
Sr Project Manager	\$155.00	hr			\$0.00
Sr Professional	\$155.00	hr			\$0.00
Project Manager	\$130.00	hr			\$0.00
Project Professional	\$130.00	hr			\$0.00
Staff Professional-Office	\$120.00	hr			\$0.00
Staff Professional-Field	\$120.00	hr			\$0.00
Field Professional Drafting	\$95.00 \$85.00	hr hr			\$0.00 \$0.00
Admin	\$65.00	hr			\$0.00
Compliance Specialist	\$05.00	III			\$0.00
Vapor Intrusion Specialist					\$0.00
Health and Safety Specialist					\$0.00
		hr			\$0.00
	•			'	\$0.00
Labor - Office/Reporting	Price	Unit	# Units		Subtotal
Principal	\$200.00	hr	π Umus		\$0.00
Director	\$175.00	hr			\$0.00
Sr Project Manager	\$155.00	hr	4.0		\$620.00
Sr Professional	\$155.00	hr	7.0		\$0.00
Project Manager	\$130.00	hr	8.0		\$1,040.00
Project Professional	\$130.00	hr			\$0.00
Staff Professional-Office	\$120.00	hr			\$0.00
Staff Professional-Field	\$120.00	hr			\$0.00
Field Professional	\$95.00	hr			\$0.00
Drafting	\$85.00	hr			\$0.00
Admin	\$65.00	hr			\$0.00
Compliance Specialist					\$0.00
Vapor Intrusion Specialist					\$0.00
Health and Safety Specialist		1			\$0.00
		hr			\$0.00 \$1,660.00
					Ψ1,000.00
Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal
Utility Locate		LS		1.00	\$0.00
Driller		LS		1.00	\$0.00
Surveyor				1.00	00.00
		LS			\$0.00
Waste Disposal		LS		1.00	\$0.00
Historical Database Report		LS LS		1.00 1.00	\$0.00 \$0.00
		LS		1.00 1.00 1.00	\$0.00 \$0.00 \$0.00
Historical Database Report		LS LS		1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report		LS LS		1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report		LS LS		1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report		LS LS		1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report		LS LS		1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory		LS LS LS Unit	# Units	1.00 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 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt	\$71.93	LS LS LS Unit	# Units	1.00 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 \$0.00 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC	\$71.93 \$71.93	LS LS LS Unit ea ea	# Units	1.00 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 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260	\$71.93 \$71.93 \$210.00	LS LS LS Unit ea ea ea	# Units	1.00 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 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260	\$71.93 \$71.93	LS LS LS Unit ea ea ea ea	# Units	1.00 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 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 - Soil Gas	\$71.93 \$71.93 \$210.00 \$71.93	LS LS LS Unit ea ea ea ea ea	# Units	1.00 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 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory 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 Sub-Slab	\$71.93 \$71.93 \$210.00 \$71.93	LS LS LS Unit ea ea ea ea ea ea	# Units	1.00 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 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory 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 Sub-Slab Air TO-15 Indoor Air	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00	LS LS LS Unit ea ea ea ea ea ea ea	# Units	1.00 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 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air Indivudual Certification	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00	LS LS LS Unit ea ea ea ea ea ea ea ea	# Units	1.00 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 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 Air TO-15 - Soil Gas Air TO-15 - Sub-Slab Air TO-15 - Indoor Air Air - Indivudual Certification Air - Batch Certification	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00	LS LS LS Unit ea ea ea ea ea ea ea ea ea	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 try wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Batch Certification Air - Batch Certification Trip Blank VOCs 8260	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$50.00	LS LS LS Unit ea ea ea ea ea ea ea ea	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00	LS LS LS Unit ea ea ea ea ea ea ea ea ea	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory 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 Sub-Slab Air TO-15 Indoor Air Air - Batch Certification Air - Batch Certification Trip Blank VOCs 8260	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$50.00	LS LS LS Unit ea ea ea ea ea ea ea ea ea	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 Gry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sul-Slab Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Batch Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$50.00 \$71.93	LS LS LS LS Unit ca ea ea ea ea ea ea ca	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Batch Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$71.93	LS LS LS LS Unit ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$50.00 \$71.93	LS LS LS LS Unit ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 Gry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$71.93	LS LS LS LS Unit ca ea ea ea ca ca ca ca ca LS ca LS ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$71.93	LS LS LS LS Unit ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 Gry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Sub-Slab Air TO-15 Sub-Slab Company of the Company	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$71.93	LS LS LS LS Unit ca ea ea ea ca ca ca ca ca LS ca LS ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 Gry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$71.93	LS LS LS LS Unit ca ea ea ea ca ca ca ca ca LS ca LS ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 Gry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$71.93	LS LS LS LS Unit ca ea ea ea ca ca ca ca ca LS ca LS ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 Gry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$71.93	LS LS LS LS Unit ca ea ea ea ca ca ca ca ca LS ca LS ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00
Historical Database Report Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 Gry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	\$71.93 \$71.93 \$210.00 \$71.93 \$40.00 \$110.00 \$200.00 \$35.00 \$71.93	LS LS LS LS Unit ca ea ea ea ca ca ca ca ca LS ca LS ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00

	rect Costs - Chargeable Equipment Expense	_	te (hr/unit)	# Hrs/Units		e (day/use)	# days/use	Subtotal
	laga at Endard IRS Baimburgament Bata (year only for	\$	20.00		\$	130.00		
	leage at Federal IRS Reimbursement Rate (used only for ly use over 230 miles)	\$	0.560					
	r Velocity Meter (per use)	ņ	0.500		\$	25.00		
	ulti-meter Conductivity/pH/Temp/TDS				\$	165.00		
	ssolved Oxygen Meter				\$	40.00		
	D Foxboro/Sensidyne (TIP)				\$	155.00		
	ow Calibrator				\$	30.00		
	O or 580 OVM rbidity Meter				\$	120.00 30.00		
	b RAE				\$	175.00		
	RP Meter				\$	30.00		
Air	Pump - Low Flow (Barcad)				\$	25.00		
	velopment Pump				\$	130.00		
	ectric Submersible Pump with Control Box (Units)	Φ.	12.00		\$	130.00		
	w-Flow Sampling Bladder	\$	12.00		¢.	105.00		
	ristaltic Pump mping Test Accessory Equipment (Flow Meters/Manifold	s	100.00		\$	105.00		
	rtable SVE Unit - 1.5 HP	Ψ	100.00		\$	155.00		
	rinsically Safe Vapor Evacuation Blower				\$	155.00		
	eumatic Low-Flow Sampling Kit w/ Flow Cell and							
	ultimeter				\$	270.00		
	bestos Sampling Kit				\$	250.00		
	bestos Investigation Supplies bestos Sampling Core	\$	2.50		\$	130.00		
	ilers (Disposable)	\$	10.00					
	ilers (Non-Disposable)	φ	10.00		\$	15.00		
	re Boxes	\$	10.00		ŕ			
Core	re Sampler				\$	55.00		
	ta Logger with Transducer				\$	155.00		
	ell Caps	\$	30.00		ć	20.00		
	ec. Well Sounder (Probe)				\$	30.00		
	etal Detector 35 Sample Kit	\$	16.00		\$	50.00		
	eld Book	\$	11.00					
	ter - Large	\$	18.00					
	ter - Small	\$	9.00					
	nerator				\$	105.00		
	nd Auger				\$	30.00		
	lium QA/QC Kit	•	20.00		\$	265.00		
	lium QA/QC Accessories	\$	20.00		¢.	105.00		
	/Water Interface Probe dlocks	\$	15.00		\$	105.00		
	am Cleaner	,	13.00		\$	130.00		
	ansducer (ea)				\$	40.00		
Cori	ring Machine				\$	200.00		
	tary Hammer Drill				\$	170.00		
	nd Drill				\$	75.00		
	bing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8" (		\$1.50					
	bing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4" C		\$1.20					
	bing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4"	_	\$1.25					
	bing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per f	<del> </del>	\$1.10					
	bing - Polyethylene: 1/4" OD (per foot) bing - Polyethylene: 1/2" OD (per foot)	<u> </u>	\$0.60 \$0.85					
	bing - Polyethylene: 1/2 OD (per foot) bing - Tygon: 3/8" STD (per foot)	<del> </del>	\$4.45					
	bing - Tygon: 3/8 STD (per foot) bing - Silicone: 3/8" STD (per foot)	I	\$4.43					
	A Tubing - 1/2-inch ID		\$5.00					
	-Gallon Drum	\$	55.00					
	mporary Sampling Port	\$	25.00					
	il Gas Sampling Port	\$	75.00					
	b-Slab Cover (Stainless Steel)	\$	40.00					
	ell Cover 8X12" easuring Wheel	\$	105.00		¢	15.00		
	mera				\$	25.00		
	Tedlar Bag	\$	20.00		φ	23.00		<b>-</b>
	don Sampling Kit	\$	30.00					
	AZMAT Exemption Shipper	\$	40.00					
Mar	nometers		\$105.00					
	estlaw		\$105.00					
	AD/drafting/graphics	ـــــــــــــــــــــــــــــــــــــــ	\$90.00					
	nes, Baracades & Traffic Signs		10.00		\$	10.00		
	oves (Chemical Resistant)	\$	10.00		¢	210.00		
	vel "B": Level "C1" plus SCBA				\$	210.00		
Safety Lev	vel "C1": Level "C2" plus Polycoat Suit vel "C2": Level "D" plus Respirator				\$	85.00 40.00		
	andby SCBA				\$	130.00		
	utine Field and Safety Equipment				\$	50.00		
	nch Binder	\$	9.00					
	nch Binder	\$	12.00					
	nch Binder	\$	15.00					
3 In	nch Binder	\$	22.00					
4 In								
4 In roduction Bind	nder Tabs (Set of 8)	\$	5.00					
4 In roduction Bind Cole	nder Tabs (Set of 8) lor Copies	\$	0.40	12				\$4.80
roduction Bind Cold B/W	nder Tabs (Set of 8) lor Copies W Copies	\$	0.40 0.25	12				\$4.80
roduction Hind Cold B/W Doc	nder Tabs (Set of 8) lor Copies W Copies cument - Format/Sending	\$ \$	0.40 0.25 15.00	12				\$4.80
oduction Bind Cold B/W Doc	nder Tabs (Set of 8) lor Copies W Copies	\$	0.40 0.25	12				
roduction Hind Cold B/W Doc	nder Tabs (Set of 8) lor Copies W Copies cument - Format/Sending	\$ \$ \$	0.40 0.25 15.00 5.00	12				\$4.80

Site Name: <u>Dutch Cleaners</u>
BRRTS #: <u>02-60-271527</u>

Type of Action: Site Investigation / Interim RA

=	BUDGET																					
TASKS		1	1	BUDGET	1	Change Order	ı	1				1		<del> </del>								
	Original Bid plus CO			Change Order	Change Order #5 Additional	Change Order #6 Vapor Mitigation		Previous		Pace,		Pace,	Pace,	Pace,	Pace		Pace	Pace			EnviroForensics	EnviroForensics
Bid / Budgeted Description	Approved Amount	Interim RA, Jan 2012	Addl SI 1/30/2014	#4 Additional SI July 2017	SI November 2017	System, March 2018	Total Approved Budget	Claims (If applicable)	Remaining	1540006640, June 29, 2015	FG, June 30, 2015, 66484	1540010863, Oct 2, 2015	1540014616, Dec 24, 2015	1640017512, Mar 23, 2016	1640021719, June 28, 2016	FG, July 31, 2016, 72108	1640025368, Sept 21, 2016	1640029870, Dec 27, 2016	FG, Dec 31, 2016, 74858	FG, April 24, 2017	Invoice # 18204 April 2017	Invoice # 18221 May 2017
Phase 1b: Site Investigation Field Work				\$ 5,327.00			\$ 5,327.00	,	\$ 1,731.50	1, 1		, , ,									\$ 806.50	
Phase 1c: Data Evaluation and				\$ 5,327.00			\$ 5,327.00	φ -	φ 1,731.50												\$ 800.50	\$ 17.00
Reporting				\$ 2,414.00			\$ 2,414.00	\$ -	\$ 579.00												\$ -	\$ -
Phase 1d: Project Coordination & Management				\$ 1,563.00			\$ 1,563.00	\$ -	\$ (537.00)												\$ 119.00	\$ 136.00
Phase 2a: Work Scope Development					\$ 3,287.00		\$ 3,287.00	\$ -	\$ 202.10													
Phase 2b: Access					\$ 2,493.00		\$ 2,493.00	\$ -	\$ (397.00)													
Phase 2c: Investigative Work					\$ 9,778.00		\$ 9,778.00	\$ -	\$ 3,671.67													
Phase 2d: Data Evaluation and Reporting					\$ 4,864.00		\$ 4,864.00	\$ -	\$ 930.25													
Phase 2e: Project Coordination and Management					\$ 2,925.00		\$ 2,925.00	\$ -	\$ 1,705.25													
Phase 3a: Work Scoping						\$ 1,257.00	\$ 1,257.00															
Phase 3b: VMS Installation						\$ 4,568.40	\$ 4,568.40															
Phase 3c: VMS Commissioning						\$ 5,447.40	\$ 5,447.40															
Phase 3d: VMS O&M Plan						\$ 943.00	\$ 943.00															
Phase 3e: PM						\$ 1,664.80	\$ 1,664.80															
Consultant Cost Total Sub-Contractor Costs	\$ 26,703.00	\$ 23,679.80	\$ 5,121.00	\$ 12,624.00	\$ 23,347.00	\$ 13,880.60	\$ 105,355.40	\$ 51,398.79	\$ 23,897.38	\$ -	\$ 715.00	\$ -	\$ -	\$ -	\$ -	\$ 292.50	\$ -	\$ -	\$ 227.50	\$ 330.00	\$ 1,168.50	\$ 1,953.00
Phase 1b: Site Investigation Field Work				\$ 2,874.00			\$ 2,874.00	\$ -	\$ 1,252.07												\$ 71.93	\$ -
Phase 2c: Investigative Work					\$ 11,070.00		\$ 11,070.00	\$ -	\$ 9,106.28													
Phase 3: VMS Install & Commissioning Sub-Contractor Cost Total	\$ 10.225.00	\$ 2.755.00	\$ 4.955.00	\$ 2,874,00	\$ 11.070.00		\$ 10,967.00 \$ 52,956.00	\$ 24 122 05	\$ 24.826.40	\$ 50.00	\$ -	\$ 50.00	\$ 50.00	\$ 50.00	\$ 50.00	\$ -	\$ 50.00	\$ 50.00	\$ -	\$ 50.00	\$ 71.93	\$ -
							\$ 158,311.40															
Non-DERF Eligible Expenses																						
Excess Bill Rate by \$10 per hour  Non-DERF Cost Total								\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
INVOICE GRAND TOTAL								\$ 75,532.74		\$ 50.00	\$ 715.00	\$ 50.00	\$ 50.00	\$ 50.00	\$ 50.00	\$ 292.50	\$ 50.00	\$ 50.00	\$ 227.50	\$ 380.00		
Check Numbers																					1	

Site Name: <u>Dutch Cleaners</u>
BRRTS #: 02-60-271527

Type of Action: Site Investigation / Interim RA

TACKO				DUDGET															
TASKS		ı		BUDGET		Change Order	1	1		1									
Bid / Budgeted Description	Original Bid plus CO Approved Amount	Change Order Interim RA, Jan 2012	Change Order Addl SI 1/30/2014	Change Order	Change Order #5 Additional SI November 2017	#6 Vapor Mitigation	Total Approved Budget	Previous Claims (If applicable)	EnviroForensic Invoice # 1834 June 2017		8430 li	EnviroForensics Invoice # 18550 August 2017	EnviroForensics Invoice # 18679 September 2017	Invoice # 18804	EnviroForensics Invoice # 18912 November 2017	Invoice # 19014	EnviroForensics Invoice # 19119 January 2018	EnviroForensics Invoice # 19287 February 2018	Total Invoiced
Phase 1b: Site Investigation Field Work				\$ 5,327.00			\$ 5,327.00	\$ -	\$ -	\$	- \$	250.00	\$ 2,522.00						\$ 3,595.50
Phase 1c: Data Evaluation and Reporting				\$ 2,414.00			\$ 2,414.00		s -	\$	- s		\$ 77.50						\$ 1,835.00
Phase 1d: Project Coordination & Management				\$ 1,563.00			\$ 1,563.00		\$ -	\$	- \$	1,039.00							\$ 2,100.00
Phase 2a: Work Scope Development					\$ 3,287.00		\$ 3,287.00	\$ -							\$ 3,084.90	1			\$ 3,084.90
Phase 2b: Access					\$ 2,493.00		\$ 2,493.00	\$ -							\$ 1,632.25	\$ 349.50	\$ 846.25	\$ 62.00	\$ 2,890.00
Phase 2c: Investigative Work					\$ 9,778.00		\$ 9,778.00	\$ -								\$ 392.50	\$ 5,577.33	\$ 136.50	\$ 6,106.33
Phase 2d: Data Evaluation and Reporting					\$ 4,864.00		\$ 4,864.00	\$ -									\$ 153.00	\$ 3,780.75	\$ 3,933.75
Phase 2e: Project Coordination and Management					\$ 2,925.00		\$ 2,925.00	\$ -							\$ 186.00	\$ 356.50	\$ 403.25	\$ 274.00	\$ 1,219.75
Phase 3a: Work Scoping						\$ 1,257.00	\$ 1,257.00												
Phase 3b: VMS Installation						\$ 4,568.40	\$ 4,568.40												
Phase 3c: VMS Commissioning						\$ 5,447.40	\$ 5,447.40												
Phase 3d: VMS O&M Plan						\$ 943.00	\$ 943.00												
Phase 3e: PM						\$ 1,664.80	\$ 1,664.80												
Consultant Cost Total	\$ 26,703.00	\$ 23,679.80	\$ 5,121.00	\$ 12,624.00	\$ 23,347.00	\$ 13,880.60	\$ 105,355.40	\$ 51,398.79	\$ 419.5	0 \$ 7	10.00 \$	1,845.50	\$ 2,832.00	\$ 1,866.00	5,368.15	5 \$ 1,098.50	\$ 6,979.83	\$ 4,253.25	\$ 30,059.23
Sub-Contractor Costs															1	T	T	1	
Phase 1b: Site Investigation Field Work				\$ 2,874.00			\$ 2,874.00	\$ -	\$ -	\$	- \$	-	\$ 1,380.00	\$ 170.00					\$ 1,621.93
Phase 2c: Investigative Work					\$ 11,070.00		\$ 11,070.00	\$ -										\$ 1,963.72	\$ 1,963.72
Phase 3: VMS Install & Commissioning Sub-Contractor Cost Total	¢ 40.225.00	¢ 2.755.00	¢ 4055.00	¢ 2.074.00	¢ 11.070.00	\$ 10,967.00	\$ 10,967.00 \$ 52,956.00	¢ 24.422.05	· ·	6			0 1200	470.00			0	6 4.060.70	6 2.005.05
		\$ 3,755.00 <b>\$ 27,434.80</b>		\$ 2,874.00 \$ 15,498.00	\$ 11,070.00 <b>\$ 34,417.00</b>		φ 02,000.00	\$ 24,133.95 <b>\$ 75,532.74</b>		\$ 0	- \$ 10.00 \$		\$ 1,380.00 \$ 4,212.00			\$ - 5 \$ 1,098.50	\$ 6,979.83	\$ 1,963.72 \$ <b>6,216.97</b>	
Non-DERF Eligible Expenses																			
Excess Bill Rate by \$10 per hour  Non-DERF Cost Total								\$ -	\$ -	\$	- \$	<u>-</u>	\$ -						\$ - \$ -
INVOICE GRAND TOTAL								\$ 75,532.74			10.00 \$		т						\$ 34,044.88

Check Numbers

Site Name: Dutch Cleaners
BRRTS #: 02-60-271527
Type of Action: Site Investigation / Interim RA

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

TASKS			BUDGET DERF COST BREAKOUT (this claim)															
Bid / Budgeted Description	Original Bid plus CO Approved Amount	Change Order Interim RA, Jan 2012	Change Order Addl SI 1/30/2014	Change Order #4 Additional SI July 2017	Change Order #5 Additional SI November 2017	Change Order #6 Vapor Mitigation System, March 2018	Total Approved Budget	Previous Claims (If applicable)	A Soil Invn	B Soil Remn	C GW Invn	D GW Remn	E Air/Vapor Invn	F Air/Vapor Remn	G Lab & Other Analysis	H Misc Costs	Budget Remaining Use (-) to indicate cost over-run	% Task Complete, Remarks
Phase 1b: Site Investigation Field				\$ 5,327.00			\$ 5,327,00	\$ -					\$ 3.595.50				\$ 1,731.50	1000/
Work				\$ 5,327.00			\$ 5,327.00	\$ -					\$ 3,595.50				\$ 1,731.50	100%
Phase 1c: Data Evaluation and Reporting				\$ 2,414.00			\$ 2,414.00	\$ -					\$ 1,835.00				\$ 579.00	100%
Phase 1d: Project Coordination &							·											
Management				\$ 1,563.00			\$ 1,563.00	\$ -					\$ 2,100.00				\$ (537.00)	100%
Phase 2a: Work Scope Development					\$ 3,287.00		\$ 3,287.00	¢					\$ 3,084.90				\$ 202.10	100%
Priase 2a: Work Scope Development					\$ 3,287.00		\$ 3,287.00	\$ -					\$ 3,084.90				\$ 202.10	100%
Phase 2b: Access					\$ 2,493.00		\$ 2,493.00	\$ -					\$ 2,890.00				\$ (397.00)	100%
																		1
Phase 2c: Investigative Work					\$ 9,778.00		\$ 9,778.00	\$ -					\$ 6,106.33				\$ 3,671.67	30%
Phase 2d: Data Evaluation and Reporting					\$ 4,864.00		\$ 4,864.00	\$ -					\$ 3,933.75				\$ 930.25	80%
Phase 2e: Project Coordination and Management					\$ 2,925.00		\$ 2,925.00	\$ -					\$ 1,219.75				\$ 1,705.25	80%
Phase 3a: Work Scoping						\$ 1,257.00	\$ 1,257.00											
Phase 3b: VMS Installation						\$ 4,568.40	\$ 4,568.40											
Phase 3c: VMS Commissioning						\$ 5,447.40	\$ 5,447.40											
Phase 3d: VMS O&M Plan						\$ 943.00	\$ 943.00											
Phase 3e: PM						\$ 1,664.80	\$ 1,664.80											
Consultant Cost Total	\$ 26,703.00	\$ 23,679.80	\$ 5,121.00	\$ 12,624.00	\$ 23,347.00	\$ 13,880.60	\$ 105,355.40	\$ 51,398.79									\$ 10,016.78	
Sub-Contractor Costs																		
Phase 1b: Site Investigation Field				A 0.074.00			A 0.074.00	•							£ 4 CO4 CO			1000/
Work				\$ 2,874.00			\$ 2,874.00	<b>5</b> -							\$ 1,621.93			100%
Phase 2c: Investigative Work					\$ 11,070.00		\$ 11,070.00	\$ -							\$ 1,963.72			50%
Phase 3: VMS Install &																		I
Commissioning Sub-Contractor Cost Total	\$ 19,335.00	\$ 3,755.00	\$ 4,955.00	\$ 2,874.00	\$ 11,070.00	\$ 10,967.00 \$ 10,967.00	\$ 10,967.00 \$ 52,956.00	\$ 24,133.95									\$ 3,511.05	<u> </u>
DERF ELIGIBLE SUB-TOTALS		\$ 27,434.80				\$ 10,967.00 \$ 24,847.60	. ,		\$ -	\$ -	\$ -	\$ 1,565.00	\$ 28,494.23	\$ -	\$ 3,985.65	\$ -	\$ 13,527.83	
	,	,,,,,,,,,	,	, , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, ,,,,,,,,,	,	,				. ,	,		,		,	
Non-DERF Eligible Expenses											Total DERF E							

\$ 75,532.74

Excess Bill Rate by \$10 per hour

Non-DERF Cost Total

INVOICE GRAND TOTAL Check Numbers