

KPRG and Associates, Inc.

ADDITIONAL WORK BUDGET REQUEST – SOIL VAPOR SAMPLING

May 10, 2012

Mr. David Volkert
Wisconsin Department of Natural Resources
141 NW Barstow Street, Room 180
Waukesha, WI 53188

DEPARTMENT OF
NATURAL RESOURCES
WAUKESHA SERVICE CENTER
2012 MAY -4 PM 2:32
D.V.

VIA Email and US Mail

KPRG Project 10009

Re: Transmittal Additional Work Budget Request
Former Bask Dry Cleaners – Waukesha, WI
BRRTS# 02-68-297669, FID# 268188800

Dear Mr. Volkert:

The above referenced site is within the Wisconsin Department of Natural Resources (WDNR) Dry Cleaner Environmental Response Fund (DERF) program for cost reimbursement. With the most recent round of groundwater sampling in June 2011, we have completed the groundwater monitoring phase outlined in the WDNR approved RAP. An Annual Status Report and Budget Request was submitted to the WDNR on October 3, 2011 requesting approval for one additional year of semi-annual groundwater monitoring. Upon review, the WDNR requested that a soil vapor survey also be conducted. Prior to implementing any additional work, this letter has been prepared by KPRG and Associates, Inc. (KPRG) on behalf of the former Bask Dry Cleaners (Bask) to request WDNR approval of the proposed budget for the additional work in order for the expenditures to qualify for reimbursement under the DERF program.

For budget estimating purposes, the additional work is divided into the following tasks and discussed separately below:

- Task 1 – Additional Site Investigation Work Planning/Coordination
- Task 2 – Additional Work Implementation

It is noted that the reporting task has been included in the previous budget request.

SCOPE OF WORK

Task 1 – Additional Requested Work Planning/Coordination

The scope of this task includes the additional project management and planning that will be required for the successful completion of the additional work. This includes expanding the current property access agreement (or if necessary creating a new agreement), with the City of Waukesha

for the additional soil boring on their property within the right-of-way of Capella Court and if necessary the alley north of the former dry cleaners.

Task 2 – Implementation of Additional Requested Work

Soil Vapor Probe Installation Procedure

Two soil vapor probes will be installed using the direct push Geoprobe drilling method. The borings will be advanced in the vicinity of the previous sample locations SV-1 and SV-2 and will be labeled SV-1A and SV-1B, respectively. Each borehole will be advanced to a depth of approximately ten feet below ground surface (bgs), or groundwater, whichever is shallower. A 1-inch diameter, schedule 40 PVC probe will be placed down hole with 3-feet of 0.010-slot screen. Clean silica sand will be placed around the screen to approximately six inches above the top of the screen. The remainder of the borehole will be backfilled with bentonite pellets and hydrated. The surface casing will be completed as a flush mount and the top of the PVC riser will be finished with an air-tight cap having a fitting to allow for vapor sample collection.

Approximately 24 hours after probe installation, the integrity of the probe seal will be tested by placing a 4' by 4' section of visqueen over the ground with a hole placed over the probe. A plastic pail will be secured to the visqueen over the hole and vapor probe and the atmosphere within the pail will be enriched with helium. Two probe volumes of air will be purged and a vapor sample will be monitored directly for the presence of helium using an Alcatel ASM 142S, or equivalent, detector/field monitor. If no helium is detected, the probe construction will be deemed adequate for subsequent vapor sampling. If helium is detected, the probe surface seal will be re-enforced with bentonite and tested again until a sufficient seal is documented. If for some reason the seal can not be adequately completed, the vapor point will be properly abandoned and redrilled/constructed within five feet of the original location.

Vapor Probe Sampling Procedure

Once an adequate surface seal is documented, a soil vapor sample will be collected from each point using a Summa canister with a one-hour flow control valve. Approximately two vapor probe volumes of air will be purged from the probe. A polyethylene sampling tube will then be connected from the probe sampling fitting to the Summa canister. The canister valve will be opened and a one-hour vapor sample will be collected. Once the canister is full, the valve will be closed and the canister will be disconnected from the sampling tube. The Summa canisters will then be shipped under a properly completed chain-of-custody (COC) for analysis to TestAmerica Laboratories.

Field notes will be maintained during each sampling event which will include the weather conditions, ambient air photoionization detector (PID) measurements and a description of any potential odors in the ambient air or other conditions that may be deemed pertinent.

Analytical Requirements

The Summa canister samples will be analyzed using the TO15 analytical method. Since the constituent of concern at this site is tetrachloroethene (PCE), the lab will be requested to only report the chlorinated volatile organic portion of the TO15 scan which will include PCE and its breakdown products of TCE, cis-1,2-dichloroethene (DCE) and vinyl chloride as well as 1,1,1-TCA and its breakdown product of 1,1-dichloroethane (DCA) and 1,1-DCE.

As noted above, all sample collection, handling and analysis will be performed in accordance with the approved Work Plan for the initial phase of site investigation work.

The results of the sampling will be included in the monitoring summary/status report for the groundwater sampling.

COST ESTIMATE

Costs are detailed on the attached costing sheets and are presented in two tasks: Planning/Coordination and Work Implementation. The estimated cost for the additional closure request work is based on the following assumptions:

- Up to 4 hours of project management time for the coordination of the expanded site investigation effort including obtaining access agreements for the installation of the off-site borings and vapor points.
- Two additional vapor samples to be analyzed for VOCs.
- Up to 2 field days for the implementation of the additional work.

The budget for this additional soil vapor study is \$3,770. Therefore, along with the previous budget of \$6,100, the total additional budget requested is \$9,870. The unit rates used in this cost estimate are consistent with KPRG's initial bid rates.

Only those costs incurred will be billed. All billing will be performed on a monthly basis and will be broken down by task and unit rates. No additional work will be performed until formal WDNR approval of the proposed budget is received. If there are any questions, please contact me at 262-781-0475.

Sincerely,
KPRG and Associates, Inc.



Patrick Allenstein, P.G.
Senior Geologist

cc: Mr. Greg Butts, former Bask Dry Cleaners
Ms. Michelle Williams, Reinhart, Boerner, Van Deuren sc

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task 1 - Additional Site Investigation Planning / Coordination

<u>Professional Labor</u>	<u>Rate (\$/Hr.)</u>		<u>Units</u>	<u>Total</u>
Principal/Proj. Mgr.	\$135		4	\$540
Sr. Eng./Sci.	\$90		0	\$0
Project Eng./Sci.	\$80		0	\$0
CADD	\$65		2	\$130
Admin. Asst/ Word Proc.	\$45		0	\$0
			Total Labor	\$670

<u>External Expenses</u>	<u>Rate</u>	<u>Type</u>	<u>Units</u>	<u>Total</u>
Photoionization Detector	\$75	Daily	0	\$0
Field Vehicle	\$65	Daily	0	\$0
Disposable Bailers	\$15	Ea.	0	\$0
Drums	\$55	Each	0	\$0
Water Meter (W/DO/ORP)	\$150	Daily	0	\$0
			Total Expenses	\$0

<u>Contractors</u>	<u>Rate</u>	<u>Type</u>	<u>Units</u>	<u>Total</u>
			Total Contractors	\$0

TASK TOTAL:	\$670
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KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task 2 - Additional Work Implementation

<u>Professional Labor</u>	<u>Rate (\$/Hr.)</u>		<u>Units</u>	<u>Total</u>
Principal/Proj. Mgr.	\$135		2	\$270
Sr. Eng./Sci.	\$90		12	\$1,080
Project Eng./Sci.	\$80		0	\$0
CADD	\$65		0	\$0
Admin. Asst/ Word Proc.	\$45		0	\$0
			<u>Total Labor</u>	<u>\$1,350</u>

<u>External Expenses</u>	<u>Rate</u>	<u>Type</u>	<u>Units</u>	<u>Total</u>
Photoionization Detector	\$75	Daily	1	\$75
Field Vehicle	\$65	Daily	2	\$130
Sampling Supplies	\$20	Daily	0	\$0
Reproduction	\$30	Est	0	\$0
PPE - Level C	\$35	Daily	0	\$0
			<u>Total Expenses</u>	<u>\$205</u>

<u>Contractors</u>	<u>Rate</u>	<u>Type</u>	<u>Units</u>	<u>Total</u>
Analytical - Air	\$175	VOC	2	\$350
Summa Canister and Control Rental	\$50	Each	2	\$100
Driller	\$1,100	Lump Sum	1	\$1,100
			<u>Total Contractors</u>	<u>\$1,550</u>

TASK TOTAL:	\$3,105
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Consulting \$ 2,225
 Sub-contractor \$ 1,550

 \$ 3,775