

TASK ORDER REQUEST FORM

PROJECT NAME:	Phase II ESA - Non-PCF Eligible Costs				
LOCATION:	2031 Roosevelt Highway, Colchester, Vermont				
TASK DESCRIPTION: (check one)	Phase I ESA	X	Phase II ESA		Groundwater Monitoring
	CAFI		CAP		UST Assessment and Removal
TO:	Dan Albrecht, Chittenden County Regional Planning Commission				
FROM:	Steve Shaw, Weston & Sampson				
DATE:	07/12/18				

Task Description: Weston & Sampson will conduct a Phase II Environmental Site Assessment (ESA) at the Champlain Chiropractic Services P.C. property located at 2031 Roosevelt Highway in Colchester, Vermont.

Scope of Services: The following general scope of services will be performed:

Task 1: Project Management

This task includes the generation of this scope, coordination with the VTDEC and subcontractors throughout the project, and general project management and coordination.

Task 2: SSQAPP Preparation

Weston & Sampson will generate a Site-Specific Quality Assurance Project Plan (SSQAPP) for review and approval by CCRPC, any other funding partners or stakeholders, the VTDEC, and the EPA. An SSQAPP is already required as part of underground storage tank (UST) assessment to be completed at the Site. The results of the UST assessment will be included as part of the Phase II ESA; therefore, the UST assessment SSQAPP will be updated to include the Phase II ESA scope described below.

Task 3: Field Activities

- Prior to subsurface field activities, proposed boring locations will be marked and DigSafe and the local Department of Public Works will be notified to clear utilities.
- We will attempt to locate the discharge point of the former drain from the Site building that reportedly discharged across Route 7. If located, one soil sample will be collected from the discharge point to be analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and RCRA 8 metals.
- We propose to advance three soil borings to a depth of approximately 15 ft. below ground surface (bgs) at the proposed locations shown on **Figure 1**. During soil boring advancement, soil will be screened for visual or olfactory evidence of contamination and screened for VOCs with a photoionization detector (PID).
- Soil borings will be completed as groundwater monitoring wells. Monitoring wells will be screened across the groundwater interface, anticipated to be between 5-8 feet bgs. Monitoring wells will be constructed of 1" Schedule 40 PVC and will have 10-ft well screens. Wells will be completed with flush-mount road boxes, secured in concrete.

- Soil sampling for laboratory analysis is anticipated to occur at one depth at each soil boring. A sample will be collected from either the interval with the highest evidence of contamination (visual, olfactory and/or PID reading), or just above the groundwater interface if no obvious contamination is identified. Soil samples will be analyzed for VOCs, SVOCs, and RCRA 8 metals. One sample, near the "mounded area," will also be analyzed for polychlorinated biphenyls (PCBs).
- We anticipate that soil borings and monitoring well installation will occur with direct-push drilling methodologies.
- After monitoring well installation, the wells will be developed by purging groundwater until the groundwater runs clear. Purged groundwater will be stored in drums left onsite pending the results of groundwater analysis.
- Monitoring wells will be allowed to equilibrate for at least 24 hours and then will be sampled using standard low-flow groundwater sampling techniques. Groundwater samples will be analyzed for VOCs, SVOCs, and total metals (RCRA 8).

Task 4: Reporting

A site investigation report will be generated in accordance with the Investigation and Remediation of Contaminated Properties Rule (I-Rule). The report will present the data collected, a map of sampling locations, groundwater contour mapping, data tables, a discussion of QA/QC results and findings/recommendations.

Cost Estimate: Our Level of Effort and Cost Table (**Table 1**) is attached including a breakdown of work to be performed and basis of our estimated costs to be paid on a time and expenses basis in accordance with our Professional Services Agreement, 9/23/16.

Total Cost	\$19,000
-------------------	-----------------

Schedule: Weston & Sampson will initiate work immediately upon receiving approval to proceed. The SSQAPP will be completed within 2 weeks. We expect that the SSQAPP review will be completed by the VTDEC and EPA within 4 weeks. Field activities will be completed within 4 weeks after approval of the SSQAPP and the report will be presented 2 weeks after receipt of analytical results from the laboratory.

If the work scope terms and costing are acceptable, please sign where indicated below and return to our office. We are prepared to initiate the Phase I ESA immediately upon your approval.



Steven Shaw
Project Geologist



Kenneth J. Bisceglia, P.E., CHMM
Regional Manager

Charles Baker, Executive Director
Chittenden County Regional Planning Commission

Date

Level of Effort and Cost Table

Weston & Sampson

CCRPC - 2031 Roosevelt Highway, Colchester, VT

7/12/2018

TASK NO.	TASK DESCRIPTION	Person-Hours				TOTAL HOURS	Billing Costs		
		KGB PRN	SJL PM	SDS PROJ SCI	NJS PROJ SCI		EXPENSES	SUB-CONSULT.	TOTAL COST
1	Project Management		6	17		23			\$2,329.80
2	SSQAPP Preparation			4	4	8			\$760.00
3	Field Activities								
	-Soil Boring/Well Installation			2	10	12	\$82.40	\$4,000.00	\$5,222.40
	Well Development				4	4	\$50.00		\$430.00
	-Soil Samples (Con-Test)								
	-VOCs (3 samples+Duplicate)							\$426.00	\$426.00
	-SVOCs (3 samples+Duplicate)							\$1,300.00	\$1,300.00
	-RCRA 8 metals (3 samples+Duplicate)							\$378.00	\$378.00
	-PCBs (1 sample + duplicate)							\$114.50	\$114.50
	-Groundwater Samples (Con-Test)						\$332.40		\$332.40
	-VOCs (3 samples+Duplicate+Trip Blank)			2		12		\$472.50	\$1,412.50
	-SVOCs (3 samples+Duplicate)							\$874.00	\$874.00
	-RCRA 8 metals (3 samples+Duplicate)							\$608.00	\$608.00
	-Well Survey						\$32.40		\$32.40
	-Investigatin Derived Waste (IDW) Disposal					4	\$300.00		\$600.00
4	Reporting		2	5	30	46			\$4,180.00
TOTALS			8	30	48	109	\$797.20	\$8,173.00	\$19,000.00
LABOR BILLINGS PER STAFF MEMBER			\$960	\$2,845	\$4,560				