

TASK ORDER REQUEST FORM

PROJECT NAME:	Phase II ESA - Non-PCF Eligible Costs					
LOCATION:	2031 Roosevelt Highway, Colchester, Vermont					
TASK DESCRIPTION: (check one)	<input type="checkbox"/>	Phase I ESA	<input checked="" type="checkbox"/>	Phase II ESA	<input type="checkbox"/>	Groundwater Monitoring
	<input type="checkbox"/>	CAFI	<input type="checkbox"/>	CAP	<input type="checkbox"/>	UST Assessment and Removal
TO:	Dan Albrecht, Chittenden County Regional Planning Commission					
FROM:	Steve Shaw, Weston & Sampson					
DATE:	02/07/19					

**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. The comprehensive Site-wide Phase II ESA will address several potential sources of contamination. Petroleum contamination related to the former underground storage tanks (USTs) will be assessed utilizing VTDEC Petroleum Clean-Up Funding (PCF). The following work scope addresses assessment of potential contamination associated with non-UST sources. This portion of the assessment activities will not be reimbursed by the PCF.

**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 has generated a Site-Specific Quality Assurance Project Plan (SSQAPP) for work to be completed at the Site. Minor updates will be made to the SSQAPP to match the following scope of work.

**Task 3: Field Activities**

- Prior to subsurface field activities, the proposed boring location will be marked. 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 is reportedly located 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), RCRA 8 metals, polychlorinated biphenyls (PCBs), and gasoline and diesel-range total petroleum hydrocarbons (TPH-GRO and TPH-DRO).
- We propose to advance one soil boring at the mounded area (**Figure 1**). The boring will be completed to a depth of approximately 15 ft. below ground surface (bgs). During soil boring advancement, soil samples will be screened for visual or olfactory evidence of contamination and for VOCs with a photoionization detector (PID).
- The soil boring will be completed as a groundwater monitoring well. The monitoring well will be screened across the groundwater interface, anticipated to be between 5-8 feet bgs. The well will be constructed of 1" Schedule 40 PVC and will have a 10-ft of 0.020" slotted

well screen. It will be completed with the screened section fully sand packed and a bentonite seal placed to prevent surface water infiltration. The well will be finished at grade with a flush-mount road box, secured in concrete.

- Soil sampling for laboratory analysis will occur at one depth at the 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. The soil sample will be analyzed for VOCs, SVOCs, RCRA 8 metals, PCBs, TPH-GRO and TPH-DRO.
- We anticipate that soil boring and monitoring well installation will occur with direct-push drilling methodologies.
- After monitoring well installation, the well 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.
- The monitoring well will be allowed to equilibrate for at least 5 days and then will be sampled using standard low-flow groundwater sampling techniques. The well will be sampled concurrently with other monitoring wells on Site associated with PCF eligible activities. Groundwater samples will be analyzed for VOCs, SVOCs, and total metals (RCRA 8).

**Task 3: Reporting**

A site investigation report is being generated as part of ongoing Site wide Phase II ESA work at the Site. Data collected as part of Task 3 will be compiled into a single, comprehensive, PCF-funded report.

**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                      \$5,250**

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 D. Shaw, P.G.  
Project Manager



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

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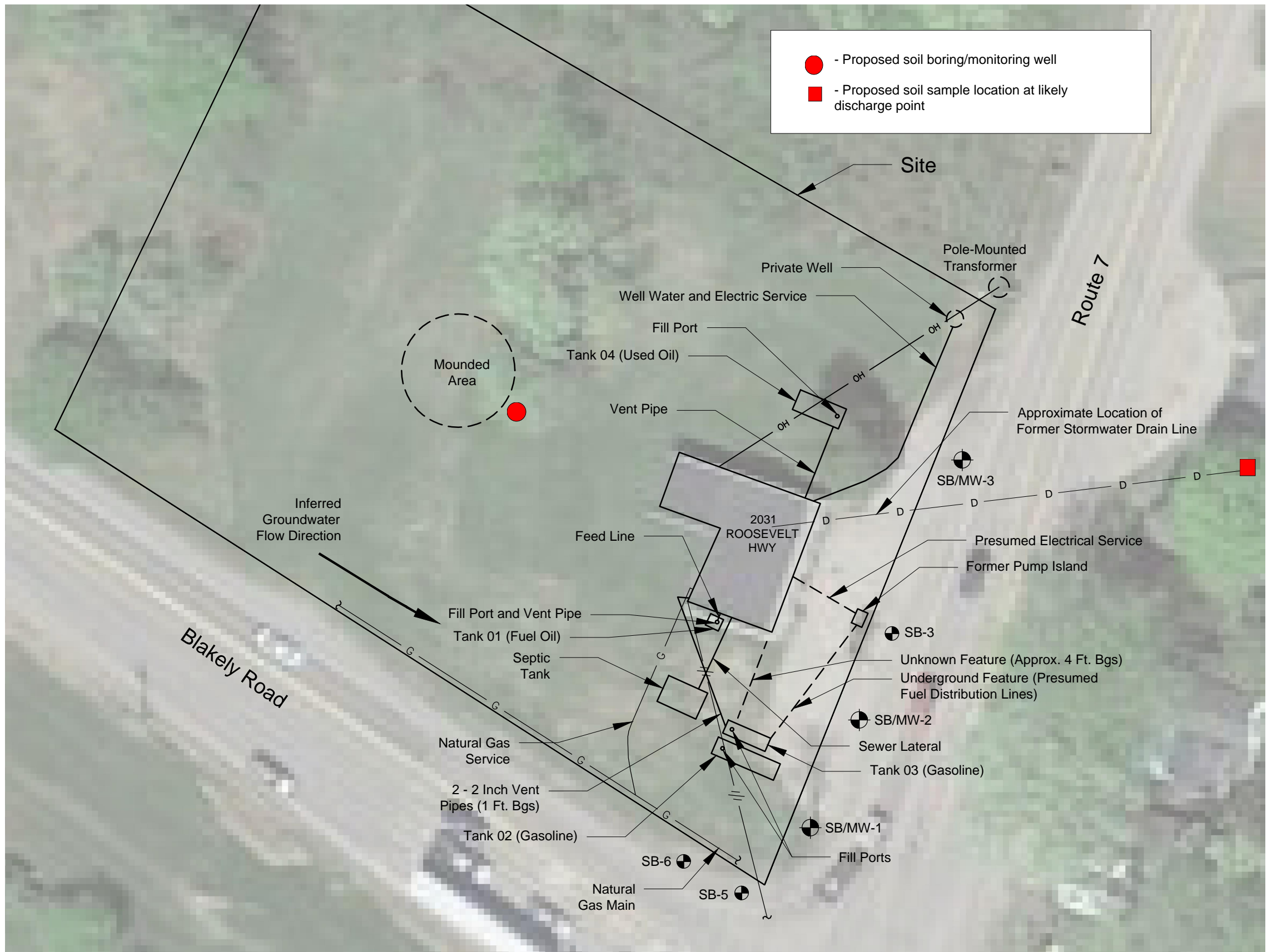
Charles Baker, Executive Director  
Chittenden County Regional Planning Commission

Date

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● - Proposed soil boring/monitoring well  
■ - Proposed soil sample location at likely discharge point



**LEGEND**

MONITORING WELL/ SOIL BORING	
SOIL BORING	
NATURAL GAS MAIN	
OVERHEAD CABLE SERVICE	
OVERHEAD ELECTRIC SERVICE	
STORMWATER DRAIN	

**NOTES:**

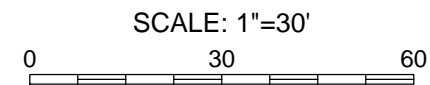
- 1) MONITORING WELLS AND SOIL BORINGS ARE FROM 2016 STONE ENVIRONMENTAL INVESTIGATION.
- 2) ALL LOCATIONS ON MAP ARE APPROXIMATE.
- 3) UNDERGROUND TANK AND UTILITY LOCATIONS WERE APPROXIMATED DURING AN APRIL 12, 2018 GPR SURVEY BY SUBTERA LOCATING SERVICES.

FIGURE 1

2031 ROOSEVELT HIGHWAY  
COLCHESTER, VERMONT

**SITE PLAN**

DESIGNED BY: TJB    CHECKED BY: SDS    DATE: APRIL, 2018



# Level of Effort and Cost Table

Weston & Sampson

CCRPC - 2031 Roosevelt Highway, Colchester, VT

2/7/2019

TASK NO.	TASK DESCRIPTION	Person-Hours						Billing Costs		
		KGB PRN	SJL PM	SDS PM	NJS PROJ SCI	TJB ENS	TOTAL HOURS	EXPENSES	SUB-CONSULT.	TOTAL COST
1	Project Management		1	4		1	6			\$560
2	SSQAPP Update			1	2		3			\$285
3	Field Activities									
	-Soil Boring/Well Installation/Drain Discharge Sampling				4		4		\$1,575	\$1,955
	Well Development							\$50		\$50
	-Soil Samples (Con-Test)									
	-VOCs (2 samples)								\$224	\$224
	-SVOCs (2 samples)								\$683	\$683
	-RCRA 8 metals (2 sample)								\$198	\$198
	-PCBs (2 samples + duplicate)								\$180	\$180
	-TPH-DRO & GRO (2 samples + duplicate)								\$477	\$477
	-Groundwater Samples (Con-Test)					1	1		\$99	\$174
	-VOCs (1 sample)								\$229	\$229
	-SVOCs (1 sample)								\$160	\$160
	-RCRA 8 metals (1 samples)									
4	Reporting (TO BE INCLUDED WITH PCF-FUNDED INVESTIGATION)									
<b>TOTALS</b>			<b>1</b>	<b>5</b>	<b>6</b>	<b>3</b>	<b>15</b>	<b>\$50</b>	<b>\$3,825</b>	<b>\$5,250</b>
<b>LABOR BILLINGS PER STAFF MEMBER</b>			<b>\$120</b>	<b>\$460</b>	<b>\$570</b>	<b>\$225</b>				