



October 6, 2022

Christian Di Renzo  
Director of Public Works & Utilities  
City of Watsonville  
500 Clearwater Lane  
Watsonville, CA 95076

Re: Scope of Work and Cost Estimate  
Corrective Action Plan (CAP) Implementation (Phase 1)  
Freedom Boulevard and Vicinity (Offsite)  
Watsonville, CA

Dear Mr. Di Renzo:

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this scope of work and cost estimate to assist the City of Watsonville with implementation of the corrective Action Plan (CAP) for the offsite area dated June 11, 2021.

### **Scope of Work**

The scope of work consists of the following tasks:

- Permitting, Traffic Control and Utility Clearance
- Supplemental Sampling/Well Replacement
- Passive Flux Meters
- Project Management

### **Permitting, Traffic Control and Utility Clearance**

DBS&A will coordinate with the City of Watsonville and the County of Santa Cruz to obtain the required permits for the planned CAP tasks. This includes traffic control, soil borings, well installation, and public property encroachment. A traffic control plan will be prepared for review and approval as needed for work on Laurel Street, Broadis Street, Lincoln Street, and Freedom Boulevard. A specialty geophysical subcontractor will provide utility search services to verify that subsurface utilities are not co-located in planned drilling locations. Dig-Alert will also be contacted to conduct a search and clearance for public utility lines.

### **Supplemental Sampling/Well Replacement**

As described in the CAP, supplemental soil borings P-1 to P-7 will be completed in the offsite area to further characterize soil and groundwater quality in the vicinity of known impacts. Drilling will be completed by hollow stem auger rig. Soil and groundwater samples will be collected for fixed laboratory analysis per the CAP. In addition, selected soil samples will be shipped to the DBS&A soil

*Daniel B. Stephens & Associates, Inc.*

3150 Bristol Street, Suite 210

Costa Mesa, CA 92626

Attachment 1  
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657-218-4708 x229

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testing laboratory for grain size analysis, classification, and organic carbon content to support groundwater ERD injections. Drill cutting will be drummed for proper disposal.

Existing small-diameter well point PMW-2 will be over-drilled by hollow stem auger and replaced with 2-inch PVC well casing and 10 feet of 0.010 slot well screen per the CAP. New well PMW-2R will be developed in preparation for ERD baseline groundwater sampling and subsequent post-injection ERD monitoring.

If access can be granted, additional indoor air sampling will also be conducted at the following properties per the CAP:

- 1170, 1180, and 1326 Freedom Boulevard (initial indoor air sampling)
- VP-5 area (1 or 2 new properties to be identified for initial indoor air or crawlspace sampling)
- 1202 Freedom Boulevard (indoor air re-sampling after HVAC ventilation)

Access will be pursued according to the approved DBS&A vapor intrusion and groundwater sampling workplan dated July 16, 2020. As before, an informational mailer will be sent to the above properties in advance of a property visit to discuss and request access for planned sampling.

### **Passive Flux Meters**

DBS&A will subcontract and oversee Regenesi to implement passive flux meter (PFM) testing per the CAP. PFMs will be installed to support full-scale injection design in the offsite area. PFMs will be installed in both the Laurel Street area and in the Broadis Street/Freedom Boulevard area at northern Lincoln Street. Regenesi staff will also be onsite during drilling operations to view and characterize soil lithology in preparation for full-scale injection design.

Full-scale injections, monitoring, and reporting will be scoped, designed and completed under a separate authorization based on the drilling and PFM data.

### **Project Management**

This task also includes project management for all tasks, consisting of scope of work development, costing, invoice control, field operations safety, quality control and client service. Mr. John J. Dodge, PG will be your point of contact for this work and DBS&A's project manager. Mr. Dodge may request and direct the assistance and expertise of other DBS&A staff or subcontractors as applicable and as needed to provide cost-efficient quality service.

### **Estimated Cost**

The scope of work is summarized along with an estimated cost in Table 1. This is a time-and-materials (T&M) estimated based on the current understanding of the project tasks and the conditions discussed above. Work will be conducted in accordance with the Contract for Consultant Services between the City of Watsonville and Daniel B. Stephens & Associates, Inc. dated May 13, 2020.

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Our proposed scope of work also includes additional as-needed services that are directed or requested as needed by the city, such as additional data review, meetings, travel, evaluations, or related professional consulting services. DBS&A understands that additional work supplemental to the scope described above may be requested by the City, as needed, and additional cost estimates may be prepared to complete additional work as needed.

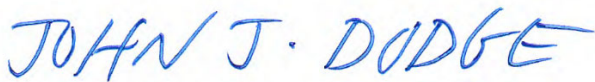
If both the proposed scope of work and budget estimates are acceptable, please submit an email approval or purchase order for our file to authorize DBS&A to conduct this work.

### **Closing**


Thank you for the opportunity to support the City of Watsonville. If you have any questions please contact John Dodge at (714) 747-9456.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.



John J. Dodge, PG, CHG  
Principal Hydrogeologist



James A. Kelsey  
Principal Geologist  
President

**Table 1. Cost Estimate**  
**City of Watsonville, CA**  
**Offsite Area**

TASK:			Permitting, Traffic Control and Utility Clearance		Supplemental Sampling/Well PMW-2R/Soil Borings/Indoor Air		Design Verification Testing Phase 1		Project Management		TOTAL	
Labor												
STAFF CATEGORY			RATE (\$/hr)		Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost
Principal Professional I			JJD	\$ 254	24	\$ 6,096	16	\$ 4,064	20	\$ 5,080	20	\$ 5,080
Senior Professional I			GS	\$ 225		\$ -		\$ -		\$ -		\$ -
Project Professional I			HE	\$ 187	50	\$ 9,350	40	\$ 7,480	40	\$ 7,480		\$ -
Staff Professional III			HH/MV	\$ 145		\$ -	50	\$ 7,250	40	\$ 5,800		\$ -
Staff Professional II				\$ 135		\$ -		\$ -		\$ -		\$ -
Sr. Technical Editor/Assistant			RF	\$ 135		\$ -		\$ -		\$ -		\$ -
CADD/GIS Specialist				\$ 130		\$ -		\$ -		\$ -		\$ -
Labor Subtotal					74	\$ 15,446	106	\$ 18,794	100	\$ 18,360	20	\$ 5,080
											300	\$ 57,680
Expenses												
			MARKUP	UNIT FEE	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
			0%			\$ -		\$ -		\$ -		\$ -
Barometer/day			estim	\$ 100		\$ -	2	\$ 200		\$ -	2	\$ 200
PID vapor detector/day			estim	\$ 100		\$ -	2	\$ 200	1	\$ 100		\$ 300
Misc Safety Supplies/week				\$ 25		\$ -	2	\$ 50		\$ -	2	\$ 50
city/county permits			estim	\$ 750	1	\$ 750		\$ -		\$ -	1	\$ 750
Hotel/day			estim	\$ 150		\$ -	5	\$ 750	5	\$ 750	10	\$ 1,500
Field vehicle/day				\$ 100		\$ -	5	\$ 500.00	5	\$ 500.00	10	\$ 1,000
Shipping			estim	\$ 50		\$ -	2	\$ 100.00	5	\$ 250.00	7	\$ 350
						\$ -		\$ -		\$ -		\$ -
Subtotal						\$ 750		\$ 1,800		\$ 1,600		\$ 4,150
Subcontractors												
			MARKUP	UNIT FEE	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
			7%			\$ -		\$ -		\$ -		\$ -
Traffic Control						\$ -		\$ -		\$ -		\$ -
Traffic Control Plans				\$ 275	5	\$ 1,375		\$ -		\$ -	5	\$ 1,375
Field Setup/breakdown/day				\$ 1,632		\$ -	3	\$ 4,896	3	\$ 4,896	6	\$ 9,792
						\$ -		\$ -		\$ -		\$ -
SESI Utility Clearance						\$ -		\$ -		\$ -		\$ -
Field and point survey				\$ 4,923	1	\$ 4,923		\$ -		\$ -	1	\$ 4,923
						\$ -		\$ -		\$ -		\$ -
Cascade Drilling						\$ -		\$ -		\$ -		\$ -
PMW-2R replacement and soil borings				\$ 38,000		\$ -	1	\$ 38,000		\$ -	1	\$ 38,000
proposal 62667 10/6/22 (minus well development)						\$ -		\$ -		\$ -		\$ -
						\$ -		\$ -		\$ -		\$ -
Eurofins Calscience						\$ -		\$ -		\$ -		\$ -
Soil samples (12+1 dup) VOCs 8260/5035 & TOC 9060a				\$ 150		\$ -	13	\$ 1,950		\$ -	13	\$ 1,950
Terracore kit for soil samples				\$ 15		\$ -	13	\$ 195		\$ -	13	\$ 195
Groundwater samples VOCs 8260B (P-1 P-2)				\$ 150		\$ -	2	\$ 300		\$ -	2	\$ 300
Summa TO-15 (6 + dup + 3 ambient)				\$ 270		\$ -	10	\$ 2,700		\$ -	10	\$ 2,700
						\$ -		\$ -		\$ -		\$ -
DBS&A Soils Lab						\$ -		\$ -		\$ -		\$ -
Grain size, USCS, TOC, etc.				\$ 550		\$ -	6	\$ 3,300		\$ -	6	\$ 3,300
						\$ -		\$ -		\$ -		\$ -
Regensis						\$ -		\$ -		\$ -		\$ -
Proposal June 2021 DVT Testing 6/13/22 Phase 1				\$ 17,000		\$ -		\$ -	1	\$ 15,057	1	\$ 17,000
						\$ -		\$ -		\$ -		\$ -
						\$ -		\$ -		\$ -		\$ -
Blaine Tech						\$ -		\$ -		\$ -		\$ -
PMW-2 Development				\$ 705		\$ -	1	\$ 705		\$ -	1	\$ 705
Baseline ERD Sampling				\$ 2,660		\$ -		\$ -	1	\$ 2,660	1	\$ 2,660
						\$ -		\$ -		\$ -		\$ -
Field/Labor contingency				10%		\$ 629.80		\$ 5,204.60		\$ 2,261.27		\$ 8,096
Subtotal						\$ 6,928		\$ 57,251		\$ 24,874		\$ 89,052
Markup						\$ 485		\$ 4,008		\$ -		\$ 6,234
Subtotal w/markup						\$ 7,413		\$ 61,258		\$ 26,615		\$ 95,286
Task Total:												
				\$ 23,609		\$ 81,852		\$ 46,575		\$ 5,080		\$ 157,116