

C A M B R I A

- SUBMITTED
- ANTICIPATED
- REJECTED

June 27, 2006

Mr. Dave Charter
State Water Resources Control Board
Underground Storage Tank (UST) Cleanup Fund Program
P.O. Box 944212
Sacramento, CA 94244-2120

Re: **UST Fund Cost Pre-approval Request
Remedial Excavation and Reporting**
Former Signal Oil Service Station #20-6145 (S-800)
800 Center Street
Oakland, California
UST Claim #12265



Dear Mr. Charter,

On behalf of Chevron Environmental Management Company (Chevron), Cambria Environmental Technology, Inc. (Cambria), has prepared the following *Cost Pre-Approval Requests* for the above referenced site. These requests include the estimated costs for soil profiling, well destruction, remedial excavation, and the installation of replacement wells.

If you have any questions regarding these pre-approval requests, please do not hesitate to call me at (510) 420-3349.

Sincerely,
Cambria Environmental Technology, Inc.

John Ortega
Senior Staff Scientist

Attachments: Cost Pre-Approval Request Form
Cost Estimate
Regulatory Approval Letters
Soil Disposal Profiling and Well Destruction Work Plan
Remedial Excavation Work Plan
Supporting documentation

Cambria
Environmental
Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

I:\206145 Oakland\Excavation Remediation\UST Fund\Preapproval Cover letter 2006.doc



MAILING ADDRESS:
 STATE WATER RESOURCES CONTROL
 DIVISION OF FINANCIAL ASSISTANCE
 UST CLEANUP FUND
 P.O. BOX 944212
 SACRAMENTO, CA 94244-2120

PHYSICAL ADDRESS:
 STATE WATER RESOURCES CONTROL
 DIVISION OF FINANCIAL ASSISTANCE
 UST CLEANUP FUND
 1001 I STREET
 SACRAMENTO, CA 95814

COST PRE-APPROVAL REQUEST

(Complete form, enclose required items, sign, date and return)

Mail to: USTCF, PO Box 944212, Sacramento, CA 94244 or Fax to: (916) 341-5806

I. CLAIM INFORMATION

Claim No.: 12265 County or Regional Board: ALAMEDA COUNTY ENV. Health Services Agency
 Claimant: Hollis Rogers
 Contact Person: Victor Brown Phone: (510) 465-3112
 Address: 580 Grand Ave, Suite F Fax: _____
ORLANDO, CA 94610 E-mail: _____
 Consultant: CHAMBREA ENVIRONMENTAL TECH INC Phone: (510) 420-3349 (John Ortega)
 Address: 5900 Hollis St, Suite A Fax: (510) 420-9170
Emeryville, CA 94608 E-mail: JOrtega@CHAMBREA-ENV.COM

II. TYPE OF REQUEST (check appropriate boxes)

- Pre-Approval \$ 964,279 Amount Requested
- 3-Bid Review \$ _____ Preferred Bid (if applicable)
- The Cleanup Fund is authorized to transmit pre-approval information to my consultant.

THE FOLLOWING DOCUMENTS ARE REQUIRED FOR THE SPECIFIED REQUEST. ALL DOCUMENTS REQUESTED MUST BE SUBMITTED OR THE REQUEST(S) WILL BE RETURNED UNPROCESSED.

A. Request for Pre-Approval of Proposed Costs – The following items are required before review and determination will be made by Fund Staff

1. A complete signed copy of the proposed Investigation Workplan or Corrective Action Plan (CAP) (as defined and required by Article 11, Chapter 16, California Underground Storage Tank Regulations).
 Corrective Action Plans must include the required feasibility study and chosen cost-effective alternative.
2. A signed copy of the oversight agency approval letter for the Workplan/CAP.
3. A complete copy of the Request for Bids, including all attachments.
4. Complete copies of all bids (including subcontractor bids) and other correspondence submitted in response to the Request for Bids.
5. A time schedule, if not part of bid documents, anticipated for project initiation and duration.
6. A detailed project budget, which includes breakdowns of staff/task/hour with associated estimated totals.

B. Three-Bid Review/Evaluation/Determination – Fund staff will assist any claimant requesting an evaluation of bids upon request. The following information must be submitted – 1, 2, 3, and 4 as described in Item A above.

III. CERTIFICATION

I certify under penalty of perjury that all information submitted with this request is complete and accurate and in accordance with all applicable laws and regulations. I further certify that the work requested under this pre-approval has not been implemented. Must be signed by claimant or person designated on the Power of Attorney form. to the best of my knowledge

Signature: Hollis Rogers Printed Name: HOLLIS ROGERS Date: 06/14/06

Remedial Excavation Activities

Client: Chevron Environmental Management Company (Chevron)

Project No.: 31J-2002

Site: 800 Center Street, Oakland, California

2006 Remedial Excavation

Cambria will conduct remedial excavation activities as approved by Alameda County Environmental Health Care Services Agency (ACEHCSA). Site remedial excavation activities will include the destruction of four onsite monitoring wells, a soil profiling investigation, soil disposal, groundwater disposal, installation of up to four monitoring wells, and preparation of a *Remedial Excavation Report*. This work is summarized below:

Task 1 - Soil Profiling and Well Destruction: As per Cambria's agency-approved work plan dated May 23, 2006, Cambria will advance eight borings to profile soil for disposal and to further define the extent of hydrocarbons prior to the proposed remedial excavation. Borings will be advanced to approximately 20 feet below grade (fbg) using hydraulic push technology. Discrete soil samples will be collected at approximately 10, 15, and 19.5 fbg and submitted for laboratory analysis of TPHg, BTEX and MTBE. Three 4-point composite samples will be collected and submitted for analysis of TPHg, BTEX, MTBE and Lead. In addition, to prevent damage to onsite monitoring wells during excavation activities, MW-1A, MW-2, MW-3 and MW-7 will be properly destroyed using a 10-inch hollow-stem auger. Profiling activities will include preparation a Site Health and Safety Plan, permitting, marking the site for USA, and scheduling a drilling contractor.

Task 2 - Remedial Excavation: As per Cambria's agency-approved work plan dated November 17, 2005, Cambria proposes to remove residual hydrocarbons prior to development of the site by excavating soil and pumping and treating groundwater. ~~Power lines will be installed to 20 fbg to prevent site from collapsing.~~ Power lines will be de-energized during installation and removal of shoring. A tree located on the southwest corner of the site will be removed prior to the installation of shoring. Once shoring is in place, an excavating contractor will mobilize equipment and start the soil removal process. Approximately ~~600 cubic yards of soil will be transported and disposed of at a Chevron approved Class II disposal facility.~~ Groundwater encounter in the excavation will be pump out, treated through temporary remediation system and disposed to the sanitary sewer under an approved discharge permit from the East Bay Municipal sewer district and the City of Oakland. A traffic control contractor will provide traffic control plan and temporary traffic control to guide vehedular and pedestrian traffic. Prefield activities will consist of preparation a Site Health and Safety Plan,

Task 3 - Well Installation: Once all remedial excavation activities have been completed, Cambria, as required in the ACEHCSA May 25, 2006 work plan approval letter, will install up to four monitoring wells to replace those wells that were destroyed before the start of the excavation. The well(s) will be installed using 10-inch diameter hollow-stem augers to a depth of approximately 30 fbg. Soil samples will be collected for lithologic description and laboratory analysis of TPHg, BTEX, and MTBE. Soil cuttings and rinse water generated during drilling activities will be temporarily stored onsite in 55-gallon DOT-approved steel drums pending disposal. Following installation, a surveyor will be contracted to survey the new wells. Pre-field activities will consist of preparation of a Site Health and Safety Plan, well permitting, marking the site for USA, and scheduling a drilling contractor.

Task 4 - Remedial Excavation Report: Cambria will prepare a *Remedial Excavation Report* following the completion of excavation activities. The report will include descriptions of excavation activities, laboratory analytical results, soil boring logs and well destruction details, figures depicting all boring and sample locations, disposal methods and manifests, discussion of the hydrocarbon distribution in soil and groundwater, and an estimate of the remaining hydrocarbon mass within the subsurface.

Task 5 - Well Installation Report: Cambria will prepare a *Well Installation Report* following the completion of well installation and quarterly groundwater sampling activities. The report will include descriptions of drilling activities, tabulated analytical results, soil boring logs and well construction details, figures depicting the location of all wells, groundwater gradient, hydrocarbon concentrations in soil and groundwater, hydrogeologic cross-sections, laboratory reports, disposal methods and manifests, discussion of the hydrocarbon distribution in soil and groundwater, and an estimate of the remaining hydrocarbon mass within the subsurface.

Cost Breakdown

	<u>Units</u>	<u>\$/unit</u>	<u>Mark-up</u>	<u>Cost</u>
TASK 01 - Soil Profiling and Well destruction				
Labor/Personnel				
Senior Engineer/Geologist (PG supervision)	4	\$83.13	0%	\$332.52
Project Engineer/Geologist (contractor coordination, project management)	8	\$74.16	0%	\$593.28
Senior Staff Engineer/Geologist (permitting, drilling, sampling)	80	\$66.30	0%	\$5,304.00
Photo-Ionization Meter	4	\$100.00	0%	\$400.00
Water-Level Meter	2	\$25.00	0%	\$50.00
Interface Probe	0	\$40.00	0%	\$0.00
Traffic Control - cones, signs	1	\$38.00	0%	\$38.00
Misc. field supplies	4	\$25.00	0%	\$100.00
Drums	8	\$40.00	10%	\$352.00
Drilling Subcontractor (assume 4 wells - 16 hrs onsite)	1	\$2,971.00	10%	\$3,268.10
Drilling Subcontractor (10 boring with Probe Rig)	1	\$7,185.00	10%	\$7,903.50
Well Location Survey Subcontractor	1	\$700.00	10%	\$770.00
Soil Analytical (BTEX & MTBE)	27	\$39.00	10%	\$1,158.30
Soil Analytical (TPHg by 8015)	27	\$31.00	10%	\$920.70
Soil Analytical (TPHd by 8015)	27	\$50.00	10%	\$1,485.00
Soil Analytical (Lead by 6010)	3	\$50.00	10%	\$165.00
Mileage (24 miles x 3 trips (Include Lab Delivery))	60	\$0.50	0%	\$30.00
				Subtotal: \$ 22,870

Remedial Excavation Activities

Client: Chevron Environmental Management Company (Chevron)
Site: 800 Center Street, Oakland, California

Project No.: 31J-2002

TASK 2 - Remedial Excavation

Labor/Personnel

Senior Engineer/Geologist (PG supervision)	40	\$83.13	0%	\$3,325.20
Project Engineer/Geologist (contractor coordination, project management)	100	\$74.16	0%	\$7,416.00
Senior Staff Engineer/Geologist (permitting, drilling, sampling)	600	\$66.30	0%	\$39,780.00
Photo-Ionization Meter	30	\$100.00	0%	\$3,000.00
Traffic Control - cones, signs	30			\$36,300.00
Security Patrol (Costs per day)	30	\$700.00	10%	\$23,100.00
Misc. field supplies	50	\$25.00	0%	\$1,250.00
Drums	2	\$40.00	10%	\$88.00
Excavation Contractor				
Shoring				
Geotechnical Services	1	\$2,000.00	15%	\$2,300.00
Soil Waste Disposal				
Water disposal permit fee	1	\$695.00	10%	\$764.50
Disposal Fee per gallon (\$ 0.02 per Gallons)	350,000	\$0.02	10%	\$7,700.00
Dewatering System Equipment	1	\$19,254.56	10%	\$21,180.02
Soil Analytical (BTEX & MTBE)	15	\$39.00	10%	\$643.50
Soil Analytical (TPHg by 8015)	15	\$31.00	10%	\$511.50
Soil Analytical (TPHd by 8015)	15	\$50.00	10%	\$825.00
Clerical (copy and mailing, invoicing)	3	\$45.00	0%	\$135.00
Mileage (24 miles x 30 trips (Include Lab Delivery))	720	\$0.50	0%	\$360.00
				Subtotal: \$ 917,234

TASK 2 - Well Installation

Labor/Personnel

Senior Engineer/Geologist (RG supervision)	8	\$83.13	0%	\$665.04
Project Engineer/Geologist (contractor coordination, project management)	8	\$74.16	0%	\$593.28
Senior Staff Engineer/Geologist (permitting, drilling, sampling)	60	\$66.30	0%	\$3,978.00
Photo-Ionization Meter	3	\$100.00	0%	\$300.00
Water-Level Meter	2	\$25.00	0%	\$50.00
Traffic Control - cones, signs	4	\$38.00	0%	\$152.00
Misc. field supplies	4	\$25.00	0%	\$100.00
Drums	8	\$40.00	10%	\$352.00
Drilling Subcontractor (assume 4 wells - 10 hrs onsite)	1	\$6,843.00	10%	\$7,527.30
Well Location Survey Subcontractor	1	\$700.00	10%	\$770.00
Soil Analytical (BTEX & MTBE)	18	\$39.00	10%	\$696.40
Soil Analytical (TPHg by 8015)	16	\$31.00	10%	\$545.60
Soil Analytical (TPHd by 8015)	16	\$50.00	10%	\$880.00
Mileage (24 miles x 4 trips (Include Lab Delivery))	96	\$0.50	0%	\$48.00
				Subtotal: \$ 16,600

TASK 4 - Remedial Excavation Report

Labor/Personnel

Principal Engineer/Geologist (report review)	2	\$92.82	0%	\$186
Senior Engineer/Geologist (report review)	4	\$83.13	0%	\$333
Project Engineer/Geologist (report preparation)	8	\$74.16	0%	\$593
Senior Staff Engineer/Geologist (report preparation)	50	\$66.30	0%	\$3,315
Draftsperson/CADD	6	\$46.92	0%	\$282
Clerical (copy and mailing)	1.5	\$38.76	0%	\$58
Subtotal Labor:				Subtotal: \$ 4,768

TASK 5 - Well Installation Report

Labor/Personnel

Principal Engineer/Geologist (report review)	1	92.82	0%	\$ 93
Senior Engineer/Geologist (report review)	4	83.13	0%	\$ 333
Project Engineer/Geologist (report preparation)	8	74.16	0%	\$ 593
Senior Staff Engineer/Geologist (report preparation)	25	66.30	0%	\$ 1,658
Draftsperson/CADD	2	46.92	0%	\$ 94
Clerical (copy and mailing)	1	38.76	0%	\$ 39
				Subtotal: \$ 2,809

* INCLUDE VAPOR BARRIER ?

Total: \$ 964,279