Delta
Environmental
Consultants, Inc.

3164 Gold Camp Drive
Suite 200
Rancho Cordova, California 95670-6021
916/638-2085
FAX: 916/638-8385

August 6, 2001

Mr. Barney Chan
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

5544

Subject: *Addendum to Work Plan for Soil Excavation*
Former Chevron Station #20-6145
800 Center Street
Oakland, CA
Delta Project No. DG26145C.4C03

AUG 0 9 2001

Mr. Chan:

On July 27, 2001, we discussed your comments and concerns regarding the scope of work proposed by Delta Environmental Consultants Inc. network associate Gettler-Ryan Inc. (GR) in our *Work Plan to Excavate Impacted Soil* (dated July 20, 2001). This letter is to confirm the points we discussed in our telephone conversation.

Task 1: Well MW-1 will be abandoned by excavation. This method is acceptable to Alameda County Public Works Department. A copy of the well construction detail for well MW-1 is attached. The well will be excavated to a depth of 16.5 feet bgs to remove all construction materials. ✓

Task 2: A total of 21 GeoProbe borings will be advanced in and around the proposed UST/dispenser island excavation. Soil samples will be collected from these borings at 5 feet and 10 feet bgs. Some of these discrete soil samples will be analyzed to better constrain the lateral extent of the proposed excavation. Because shoring long the western side of the excavation will prohibit collection of soil samples from the excavation wall, four of the GeoProbe borings will be drilled adjacent to the Center Street sidewalk. Samples from these four borings will serve to characterize concentrations of hydrocarbons remaining in soil at the western extent of the excavation. All soil samples collected from the proposed UST/dispenser island excavation will be combined by the laboratory into ten composite samples for disposal characterization.

One boring will also be advanced in the vicinity of both the former hydraulic lift and the former sumps. Soil samples will be collected from each of these borings at 2.5 feet, 5 feet, 7.5 feet and 10 feet bgs. The four samples from each boring will be combined by the laboratory into a composite sample for disposal characterization.

GR is expecting to be able to haul the excavated soil to Allied Waste's Forward facility in Stockton for disposal. We have reviewed the proposed pre-profiling procedures proposed in this letter with Mr. Joe Griffith, Allied's Technical Service Manager. Based on the information available at this time our proposal to characterize the soil in place is acceptable to Allied Waste.

Task 3: During our phone conversation you suggested that Title 23 might indicate a sampling frequency for confirmation samples from the walls of excavations. We were unable to find any reference in Title 23 to soil sampling frequency from excavations. We also contacted Ms. Barbara Sieminski and Mr. Chuck Headlee of the RWQCB for clarification of this issue. Neither Ms. Sieminski or Mr. Headlee were aware of excavation sampling requirements in Title 23. Therefore, we propose to collect confirming soil samples from the walls of the excavations at the rate of one soil sample from 5 feet bgs and from 10 feet bgs for each 20 lineal feet of wall. OK

Task 3: As discussed above, four GeoProbe borings will be advanced immediately adjacent to the sidewalk along the western side of the property. Soil samples will be collected from these borings at 5 and 10 feet bgs will be used to evaluate the westernmost extent of the excavation because shoring will prohibit collection of soil samples from the pit walls during excavation.

Task 3: Approximately 816 pounds of ORC will be placed in the main excavation prior to backfilling. This is the application rate recommended by Regenesis' software, based on the proposed size of the excavation and the concentrations of petroleum hydrocarbons detected to date. The ORC will be placed in the excavation following Regenesis' guidelines. Provide copy of spreadsheet calculations.

Task 4: You requested that confirming soil samples from the sump area be analyzed for the waste oil suite. Therefore, in addition to the TPHg, TPHd, BTEX and MTBE, confirming samples from this area will also be analyzed for Oil and Grease (Standard Method 5520E&F), chlorinated halocarbons (EPA Method 8010), semivolatile hydrocarbons (EPA Method 8270), and the metals Cd, Cr, Pb, Ni, and Zn. OK

This Addendum should address the concerns you raised in our telephone conversation. Please call me at 916.631.1300 if you have an questions.

Sincerely,
DELTA ENVIRONMENTAL CONSULTANTS, Inc.
Network Associate GETTLER-RYAN INC.

Stephen J. Carter, R.G.
Senior Geologist

Attachment: Drilling Log, well MW-1

cc: Mr. Hollis Rodgers, c/o Victor Brown, 580 Grand Avenue, Oakland, CA 94610
Mr. Tom Bauhs, Chevron Products Company, P.O. Box 6004, San Ramon, CA 94583 (w/o attach.)
Mr. Terrell Sadler, 618 Brooklyn Avenue, Oakland, CA 94606
Mr. Jim Brownell, Delta Environmental Consultants, Inc., 3164 Gold Camp Drive, Suite 200, Rancho Cordova, CA 95670-6021 (w/o attach.)

Drilling Log

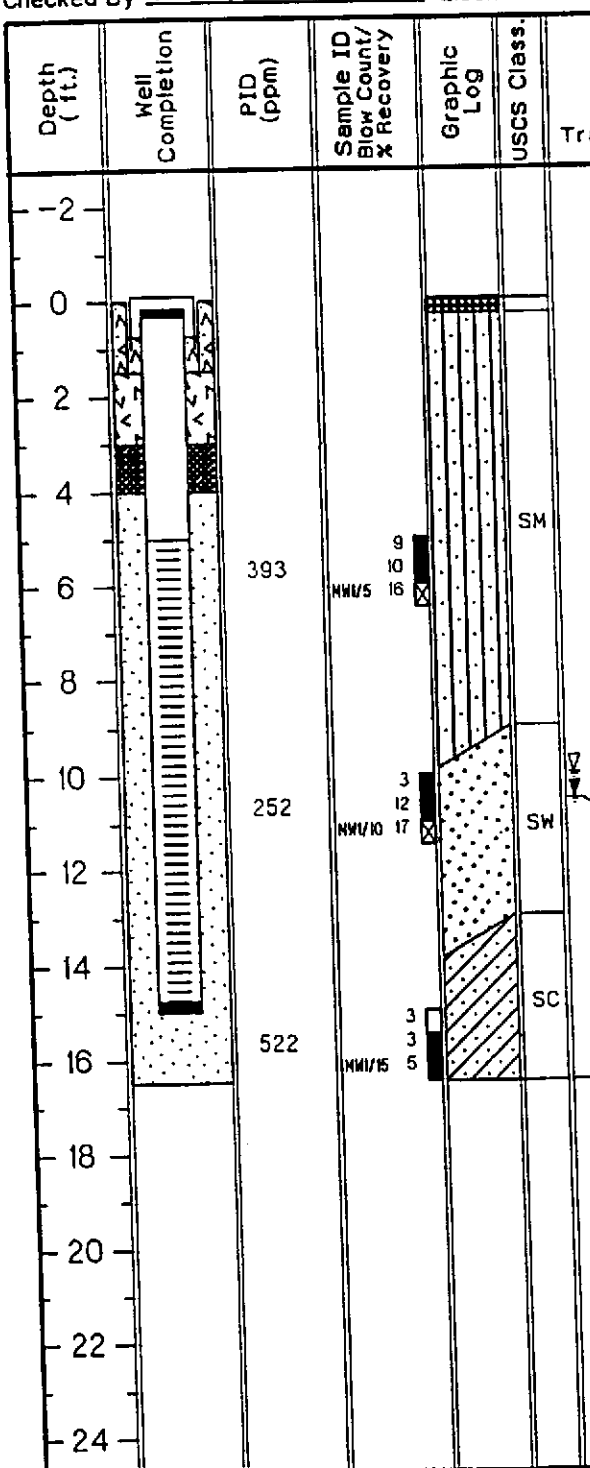
GROUNDWATER TECHNOLOGY

Monitoring Well **MW-1**

Project *Signal S0800* Owner *CHV/USA*
Location *800 Center St.* Project No. *020200105* Date drilled *10/17/95*
Surface Elev. *16.2 ft.* Total Hole Depth *16.5 ft.* Diameter *8.25 in.*
Top of Casing *15.69 ft.* Water Level Initial *10 ft.* Static *10.54 ft.*
Screen: Dia *2 in.* Length *10 ft.* Type/Size *PVC/0.020 in.*
Casing: Dia *2 in.* Length *5 ft.* Type *PVC*
Filter Pack Material *#3 Monterey Sand* Rig/Core Type *CME 75/Splitspoon*
Drilling Company *Bay Area Explor.* Method *Hollow Stem Auger* Permit # *65664*
Driller *Scott Fitche* Log By *Terry James*
Checked By *E K Simonis* License No. *R.G. 4422*

See Site Map For Boring Location

COMMENTS:



Description

(Color, Texture, Structure)
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

Vacant lot

Clayey, silty, very fine SAND (10,30,60):, red-yellow, dry, medium dense, moderate hydrocarbon odor.

Fine SAND: light brown, moist, loose, strong hydrocarbon odor.

Groundwater encountered during drilling

Static water level after 24 hours

Silty, clayey, very fine SAND (10,30,60):, green-gray, wet, loose, strong hydrocarbon odor.

End of boring.

(All percentages are approximate.)