



**Delta**  
Environmental  
Consultants, Inc.

# 401 / 221

DEC 06 2001

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

December 3, 2001

Mr. Thomas Bauhs  
Chevron Products Company  
P.O. Box 6004  
San Ramon, California 94583

**Subject: Addendum to Plume Delineation Workplan, Chevron Service Station No. 9-0338, 5500 Telegraph Avenue, Oakland, California**

Mr. Bauhs:

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants Inc. (Delta) network associate Gettler-Ryan Inc. (GR) has prepared this addendum to Delta's Plume Delineation Workplan dated November 16, 2001 for the above referenced site. In their review of Delta's workplan, the Alameda County Health Care Services Agency-Environmental Health Department (ACHCSA-EHD) in a letter dated November 26, 2001, requested that the utility trenches (sanitary sewer and storm drains) be investigated to determine whether they are acting as preferential pathways for petroleum hydrocarbon plume migration. Instead of proceeding with the originally proposed work, GR proposes the following work to address ACHCSA-EHD's request.

To determine whether the utility trenches are acting as preferential pathways and further delineate the petroleum hydrocarbon plume downgradient of the site, GR will advance four hand-augered soil borings to approximately 12 feet below ground surface (bgs) at the locations shown on Figure 1. The borings will be advanced by GR (C57 #220793) at locations adjacent to the storm drain line beneath Telegraph Avenue and the sanitary sewer line beneath 55<sup>th</sup> Street, as located by a private subsurface utility locating service. The borings will be advanced into the fill around the sanitary sewer and storm drain lines, and a soil sample from approximately 8 feet bgs (capillary fringe) and a grab groundwater sample will be collected from each boring. Soil and grab groundwater samples will be analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA 8015/8021 Methods. Grab groundwater samples will also be analyzed for Methyl tert-Butyl Ether (MtBE), Ethyl Tertiary Butyl Ether (ETBE), Di-isopropyl ether (DIPE), Tertiary Amyl Methyl Ether (TAME), and Tertiary Butyl Alcohol (TBA) by EPA Method 8260. Upon completion, the borings will be backfilled with compacted excavated soil and completed to surface per City of Oakland requirements.

In addition, groundwater samples collected from the on-site wells during the next scheduled monitoring and sampling event at the site will be analyzed for the fuel oxygenates MtBE, ETBE, DIPE, TAME, and TBA by EPA Method 8260.

DG90338G.3C01

Mr. Thomas Bauhs  
December 3, 2001  
Page 2

If you have any questions, please call us in our Sacramento office at (916) 631-1300.

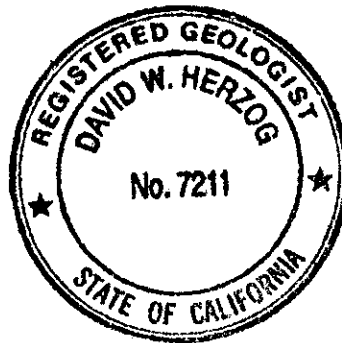
Sincerely,  
**DELTA ENVIRONMENTAL CONSULTANTS, INC.**  
Network Associate GETTLER-RYAN INC.



Geoffrey D. Risse  
Project Geologist

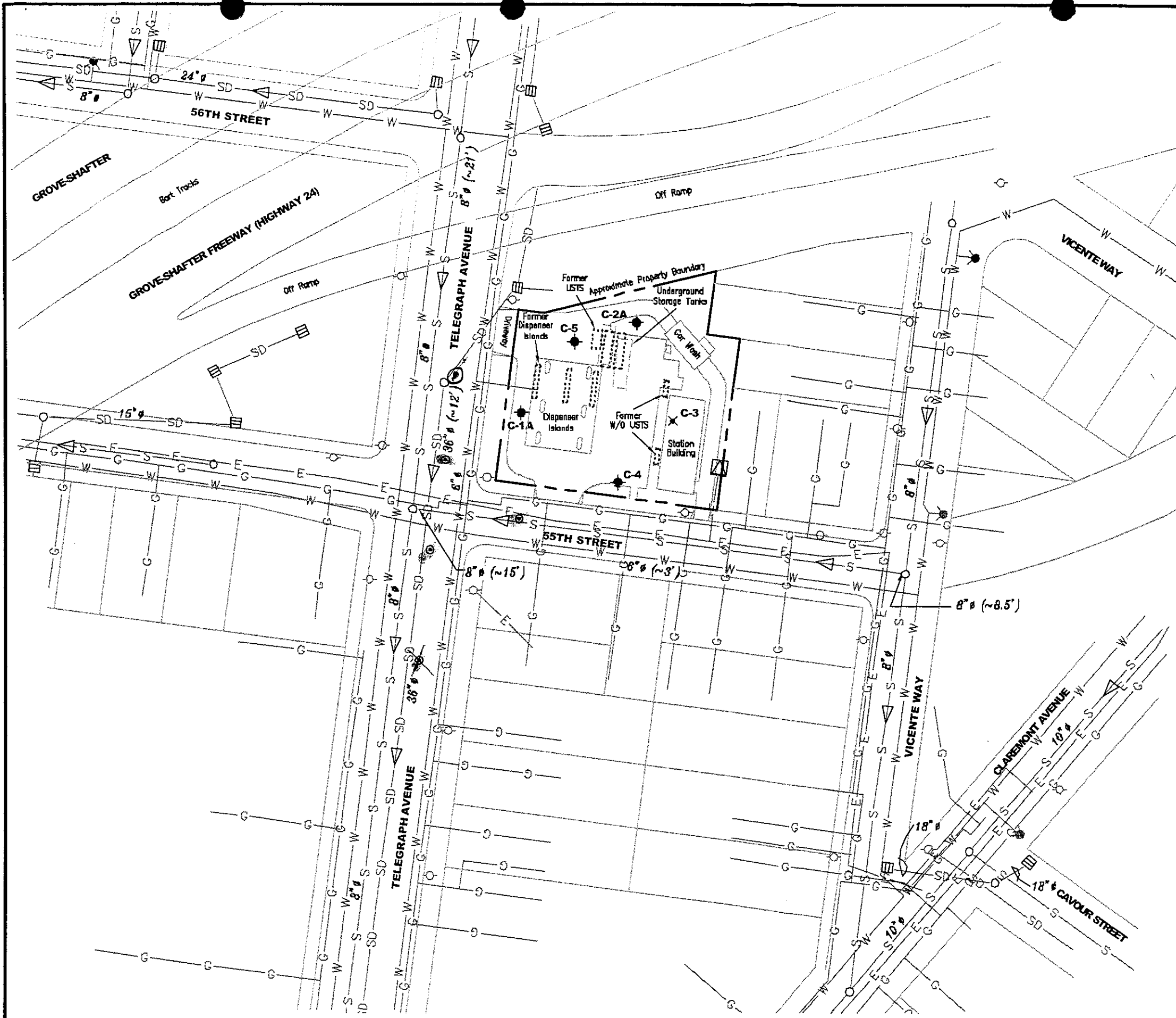


David W. Herzog  
Senior Geologist  
R.G. 7211



Attachment: Figure 1. Extended Site Plan

CC: Mr. Barney Chan, Alameda County Health Care Services Agency-Environmental Health  
Department, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502  
Mr. James Brownell, Delta Environmental Consultants Inc., 3164 Gold Camp Dr., Suite 200,  
Rancho Cordova, CA 95670

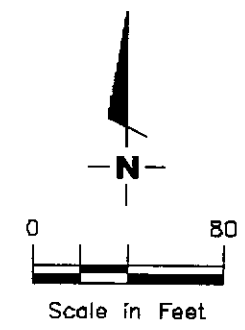


**EXPLANATION**

- ◆ Groundwater monitoring well
- ✕ Destroyed groundwater monitoring well
- Proposed hand-augered soil boring
- ▤ Storm drain
- ⊕ Fire Hydrant
- ⊠ Electrical transformer
- Power pole
- Manhole
- ▽ Flow direction
- 8" # Pipe diameter
- (~6') Approximate pipe depth

**UNDERGROUND UTILITIES**

- S — Sanitary sewer
- SD — Storm drain
- W — Water
- G — Natural gas
- E — Electric



**EXTENDED SITE PLAN**  
 Chevron Service Station No. 9-0338  
 5500 Telegraph Avenue  
 Oakland, California

**GETTLER - RYAN INC.**  
 6747 Sierra Ct., Suite J  
 Dublin, CA 94588 (925) 551-7555

PROJECT NUMBER: DG90338G.3C01  
 FILE NAME: P:\E\PRO\CHEVRON\9-0338\A01-9-0338.DWG | Layout Tab: Work Plan 12-01  
 REVIEWED BY: [Signature]  
 DATE: 12/01  
 REVISED DATE:

Source: Flows modified from drawing provided by RRN engineering contracting firm, PG&E, ERNUD.