



GETTLER-RYAN INC.

TRANSMITTAL

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

DATE: May 8, 2001
 PROJ. #: DG93322C.3C01
 SUBJECT: Chevron Station #9-3322
 7225 Bancroft Avenue
 Oakland, California

FROM:
 Tony P. Mikacich
 Project Geologist
 Gettler-Ryan Inc.
 3140 Gold Camp Drive, Suite 170
 Rancho Cordova, California 95670

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 Mr. Amar Sidhu, Chevron Dealer, 32875 Bluebird Loop, Fremont, CA 94555

If you have any questions please call us in Rancho Cordova at 916.631.1300.



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WORK PLAN FOR MONITORING WELL INSTALLATION

at

Chevron Service Station No. 9-3322
7225 Bancroft Avenue
Oakland, California

Report No. 346433.06-1
Delta Project No. DG93-322

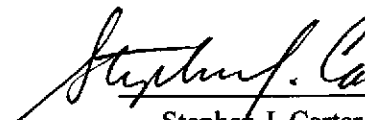
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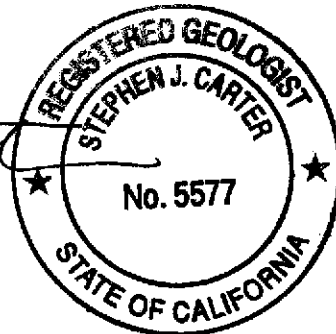
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P.O. Box 6004
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Prepared by:

DELTA ENVIRONMENTAL CONSULTANTS, INC.
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Tony P. Mikacich
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May 7, 2001

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WORK PLAN FOR MONITORING WELL INSTALLATION

at

Chevron Service Station #9-3322
7225 Bancroft Avenue
Oakland, California

GR Report No. 346433.06
Delta Project No. DG93-322

INTRODUCTION

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants, Inc. Network Associate Gettler-Ryan Inc. (GR) has prepared this Work Plan for the installation of groundwater monitoring wells to evaluate the lateral extent of hydrocarbon in groundwater at the subject site (Figure 1). The proposed scope of work includes: obtaining the required well installation permit from the Alameda County Public Works Agency (ACPWA) and encroachment permit from the City of Oakland; updating the site safety plan; installing two off-site groundwater monitoring wells; developing and sampling the newly installed groundwater monitoring wells; surveying new wellhead elevations; arranging for Chevron's contractor to dispose of the drill cuttings; and preparing a report which presents the findings of the investigation. The proposed work is response to the Alameda County Health Care Services Agency (ACHCS) letter dated September 22, 2000, requesting off-site delineation of the plume.

The scope of work described in this work plan is intended to comply with the State of California Water Resources Control Board's *Leaking Underground Fuel Tanks (LUFT) Manual*, the California Regional Water Quality Control Board (CRWQCB) *Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites*, and ACHCS guidelines.

SITE DESCRIPTION

The subject site is an active gasoline station located on the northwest corner of Bancroft Avenue and 73rd Avenue. The site is bordered on the west by Halliday Avenue. Site facilities consist of a station building, three underground storage tanks (USTs), and five fueling dispenser islands. Locations of pertinent site features are shown on Figure 2.

PREVIOUS ENVIRONMENTAL WORK

According to information provided by Chevron, GR removed the product piping in August 1996. A total of twelve soil samples were collected by Touchstone Developments (Touchstone) beneath the dispenser islands and product lines at depths ranging from 2 feet to 4 feet below ground surface (bgs). Soil samples

WORK PLAN FOR MONITORING WELL INSTALLATION

Chevron Service Station No. 9-3322

7225 Bancroft Avenue

Oakland, California

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were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), Methyl tert-Butyl Ether (MtBE), and total lead. Five of the soil samples contained TPHg concentrations ranging from 6.0 parts per million (ppm) to 500 ppm. Benzene was detected in five soil samples at concentrations ranging from 0.011 ppm to 4.2 ppm. Concentrations of MtBE were detected in seven soil samples ranging from 0.092 ppm to 1.1 ppm. Highest concentrations were detected beneath the center dispenser island.

On January 22, 1998, GR installed groundwater monitoring wells MW-1 through MW-3. The well borings were drilled to depths between 31 feet and 36 feet bgs. Nine soil samples were collected from well borings MW-1 through MW-3 and were analyzed for TPHg, BTEX, and MtBE. Benzene was detected in one soil sample at a concentration of 0.053 ppm. TPHg were detected in two soil samples at concentrations of 8.2 ppm and 23 ppm from wells MW-2 and MW-1 at 15 feet bgs, respectively. MtBE was detected in three soil samples analyzed at concentrations of 0.057 ppm, 0.40 ppm, and 0.079 ppm from wells MW-1 and MW-2 at 15 feet bgs and MW-2 at 10 feet bgs, respectively. Groundwater samples collected from wells MW-1 through MW-3 were analyzed for TPHg, BTEX, and MtBE. MtBE was detected in two of the three groundwater samples at concentrations of 2,300 parts per billion (ppb, in MW-2) and 8,000 ppb (MW-3). TPHg were detected in all three groundwater samples at concentrations ranging from 24,000 ppb (MW-2) to 130,000 ppb (MW-1). Benzene was also detected in all three groundwater samples at concentrations ranging from 130 ppb (MW-2) to 12,000 ppb (MW-3).

On July 9, 1998, GR conducted a search of the Department of Water Resources files in Sacramento, California, for domestic or municipal supply wells located within a 0.5-mile radius of the subject site. Domestic or municipal supply wells were not identified within the search area.

On January 22, 1999, GR installed groundwater monitoring wells MW-4 through MW-6. The well borings were drilled to depths between 31.5 and 32 feet bgs. Nine soil samples collected from the borings and groundwater samples were analyzed for TPHg, BTEX, and MtBE. Petroleum hydrocarbons were not detected in any of the soil samples. Groundwater samples collected from wells MW-5 and MW-6 contained TPHg (72 ppb and 14,000 ppb, respectively) and benzene (2.7 ppb and 5,600 ppb, respectively). MtBE was detected in the groundwater samples collected from wells MW-4 and MW-5 at concentrations of 6.0 ppb and 11 ppb, respectively. Benzene was detected in the groundwater sample from well MW-4 (0.52 ppb).

In July 2000, Cambria Environmental Technology, Inc. (Cambria) used direct push boring technology to advance two soil borings (B-1 and B-2) and install one monitoring well (MW-7, initially soil boring B-3). Selected soil and groundwater samples were analyzed for TPHg, BTEX, and MtBE. TPHg and benzene were detected in soil samples collected at a maximum concentration of 140 ppm and 0.88 ppm, respectively. MtBE was detected in samples collected at a concentration of 1.7 ppm by EPA Method 8020, but concentrations were not confirmed by EPA Method 8260. The highest concentrations of TPHg were detected near the water table, probably a smear zone from the fluctuation in groundwater elevation. TPHg and benzene were detected in the groundwater sample from MW-7 at concentrations of 11,000 ppb and 4,300 ppb, respectively. MtBE was detected in the groundwater sample collected from B-1 at a concentration of 2,000 ppb by EPA Method 8260. Boring B-2 did not produce sufficient water to obtain a groundwater sample for analysis. The work was conducted to provide current information of environmental conditions at the time of transfer of facilities to the dealer.

WORK PLAN FOR MONITORING WELL INSTALLATION

Chevron Service Station No. 9-3322

7225 Bancroft Avenue

Oakland, California

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On September 25, 2000, Cambria advanced three borings using direct push boring technology. The soil borings SB-4, SB-5, and SB-6 were advanced in locations adjacent to previous borings B-1, B-2, and B-3 to obtain samples for additional analyses. TPHg and benzene were detected in soil samples collected in SB-5 at concentrations of 1,400 ppm and 3.1 ppm, respectively, from a depth of approximately 24 feet bgs. MtBE was not detected by EPA Method 8260. Grab groundwater samples were not collected due to the slow recharge into the borehole, therefore samples were collected from wells MW-2, MW-3, and MW-7. TPHg and benzene were detected in samples from MW-3 and MW-7 at concentrations as high as 24,000 ppb and 2,000 ppb, respectively. MtBE was detected in a sample collected from MW-3 at a maximum concentration of 1,400 ppb by EPA Method 8260.

Soil and groundwater samples were also collected by Cambria and analyzed for, semi-volatile organic compounds by EPA Method 8270B, organochlorine pesticides by EPA Method 8081A, polychlorinated biphenyls by EPA Method 8082 and CAM 17 metals by EPA 6000/7000 Series Method. The compounds detected were below Primary Reporting Goals (PRGs) and Maximum Contaminant Levels (MCLs) and do not pose a significant concern to the environment or to human health.

Groundwater Monitoring and Sampling

Groundwater flow direction at the site has generally been toward the north-northwest. Depth to groundwater beneath the site has varied from approximately 7.5 feet bgs to 22 feet bgs, since February 1998. The nearest surface water body, Arroyo Viejo, is located approximately 1,200 feet southeast of the site.

Separate-Phase Hydrocarbons (SPH) were measured in well MW-1 at a maximum thickness of 0.40 feet on June 6, 1999. SPH was measured in MW-1 at a thickness of 0.26 feet during the November 26, 2000 monitoring and sampling event. TPHg and MtBE in groundwater are delineated in the northern corner of the site (MW-4). TPHg and MtBE are not delineated in groundwater to the west, south, or east of the site. MtBE was detected in concentrations of 1,600 ppb and 2,000 ppb from samples collected from MW-3 and MW-6, respectively, on September 26, 2000.

SCOPE OF WORK

To further evaluate the lateral extent of petroleum hydrocarbon impact to groundwater in the site vicinity, GR proposes to install two groundwater monitoring wells at the locations shown on Figure 2. GR's Field Methods and Procedures are included in Appendix A. To implement the proposed scope of work, GR proposes the following six tasks:

Task 1. Pre-field Activities

GR will update the site safety plan. The required well installation permit will be obtained from the Alameda County Public Works Department, and an encroachment permit for the off-site wells will be obtained from the City of Oakland. Underground Service Alert (USA) will be notified at least 48 hours prior to beginning drilling.

WORK PLAN FOR MONITORING WELL INSTALLATION

Chevron Service Station No. 9-3322

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Oakland, California

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Task 2. Well Installation and Soil Borings

GR will install two groundwater monitoring wells at the locations shown on Figure 2. Drilling and well construction will be performed by a California licensed driller using 8-inch-diameter hollow-stem auger and a truck-mounted drill rig. A GR geologist will monitor the drilling activities and prepare a log of each boring. Soil samples for description and possible chemical analysis will be obtained from each boring at 5-foot intervals, as a minimum. Selected soil samples will be submitted for chemical analysis as described in Task 5.

Groundwater monitoring wells will be constructed with 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) well casing and 0.02-inch machine-slotted well screen. The proposed soil borings will be advanced to approximately 30 bgs. The proposed wells will be constructed with 20 feet of screen as shown on the Proposed Well Construction Detail (Figure 3). However, the actual screen interval will depend on the conditions encountered during drilling.

Soil from each sampled interval will be screened in the field for the presence of volatile organic compounds using a photoionization detector (PID). This data will be collected for reconnaissance purposes only, and will not be used as verification of the presence or absence of petroleum hydrocarbons. Screening data will be recorded on the boring logs. Drill cuttings will be stored at the site pending disposal.

The drill cuttings will be stockpiled on and covered with plastic sheeting. Soil samples will be collected from the drill cuttings as described in Appendix A. Stockpile samples will be analyzed as described in Task 5. Drill cuttings will be removed by Chevron's contractor Integrated Wastestream Management (IWM) for disposal at the public landfill and steam cleaning rinsate wastewater will be stored at the site in properly labeled drums pending transport by IWM for disposal at McKittrick.

Task 3. Well Development and Sampling

Newly installed groundwater monitoring wells will be developed after standing a minimum of 72 hours following completion. During development, the clarity of the discharged well water and selected groundwater parameters (pH, temperature, and conductivity) will be monitored. When the discharge water runs clear and the groundwater parameters have stabilized, a groundwater sample will be collected. Groundwater samples will be analyzed as described in Task 5. Groundwater removed from the wells during development and sampling will be transported by IWM to McKittrick for disposal.

Task 4. Wellhead Survey

Following installation, a California licensed surveyor will survey the top of casing elevations of all wells to mean sea level. Horizontal coordinates of the wells will also be obtained by the surveyor.

WORK PLAN FOR MONITORING WELL INSTALLATION

Chevron Service Station No. 9-3322

7225 Bancroft Avenue

Oakland, California

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Task 5. Laboratory Analyses

Soil and groundwater samples will be submitted for chemical analysis to a California state-certified Hazardous Material Testing Laboratory. Selected soil samples from the well borings will be analyzed for TPHg by EPA Method 8015 (Modified), and for the gasoline constituents benzene, toluene, ethylbenzene, and xylenes (BTEX) and MtBE by DHS LUFT Methods. Groundwater samples will be analyzed for TPHg, BTEX, and MtBE by EPA LUFT Methods and fuel oxygenates (MtBE, TBA, ETBE, TAME, DIPE) by EPA Method 8260. The soil samples from the soil stockpile will be analyzed for TPHg, BTEX and total lead.

Task 6. Report Preparation

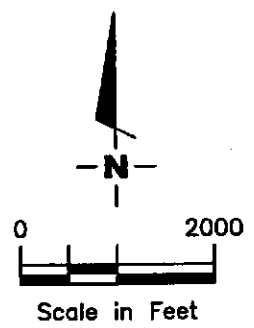
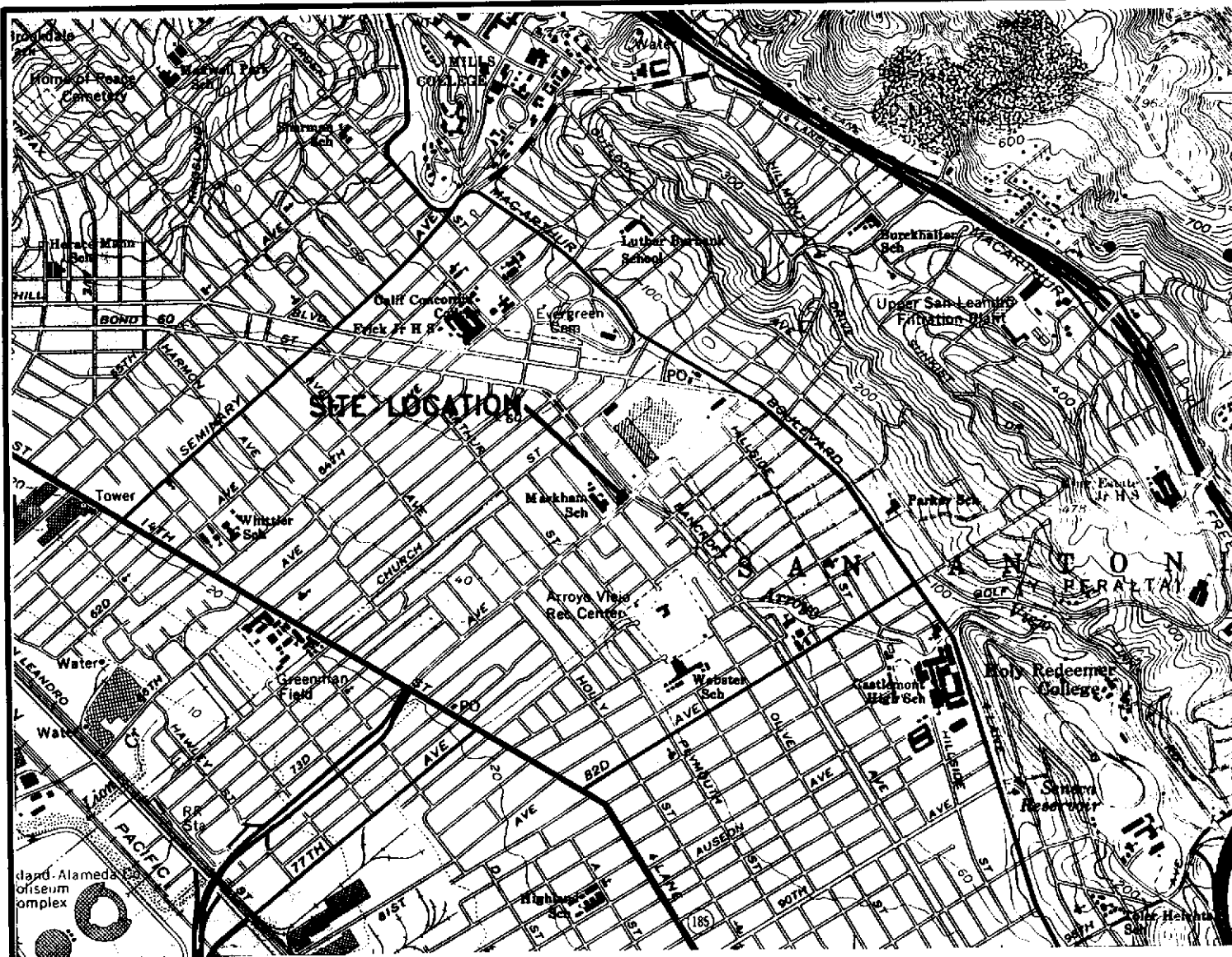
Following receipt and analysis of all data, a report will be prepared which summarizes the procedures and findings associated with this investigation. This report will be submitted to Chevron for their use and distribution.

PROJECT STAFF

Mr. Stephen J. Carter, a Registered Geologist in the State of California (R.G. No. 5577) will provide technical oversight and review of the work. Mr. Greg Gurss, Project Manager, will supervise implementation of field and office operations. GR employs a staff of geologists, engineers, and technicians who will assist with the project.

SCHEDULE

Chevron will implement the encroachment permits immediately. Upon approval of the Work Plan, GR will submit the well installation application and schedule the drilling contractor. The report of the finds will follow approximately 60 days after completion of drilling.

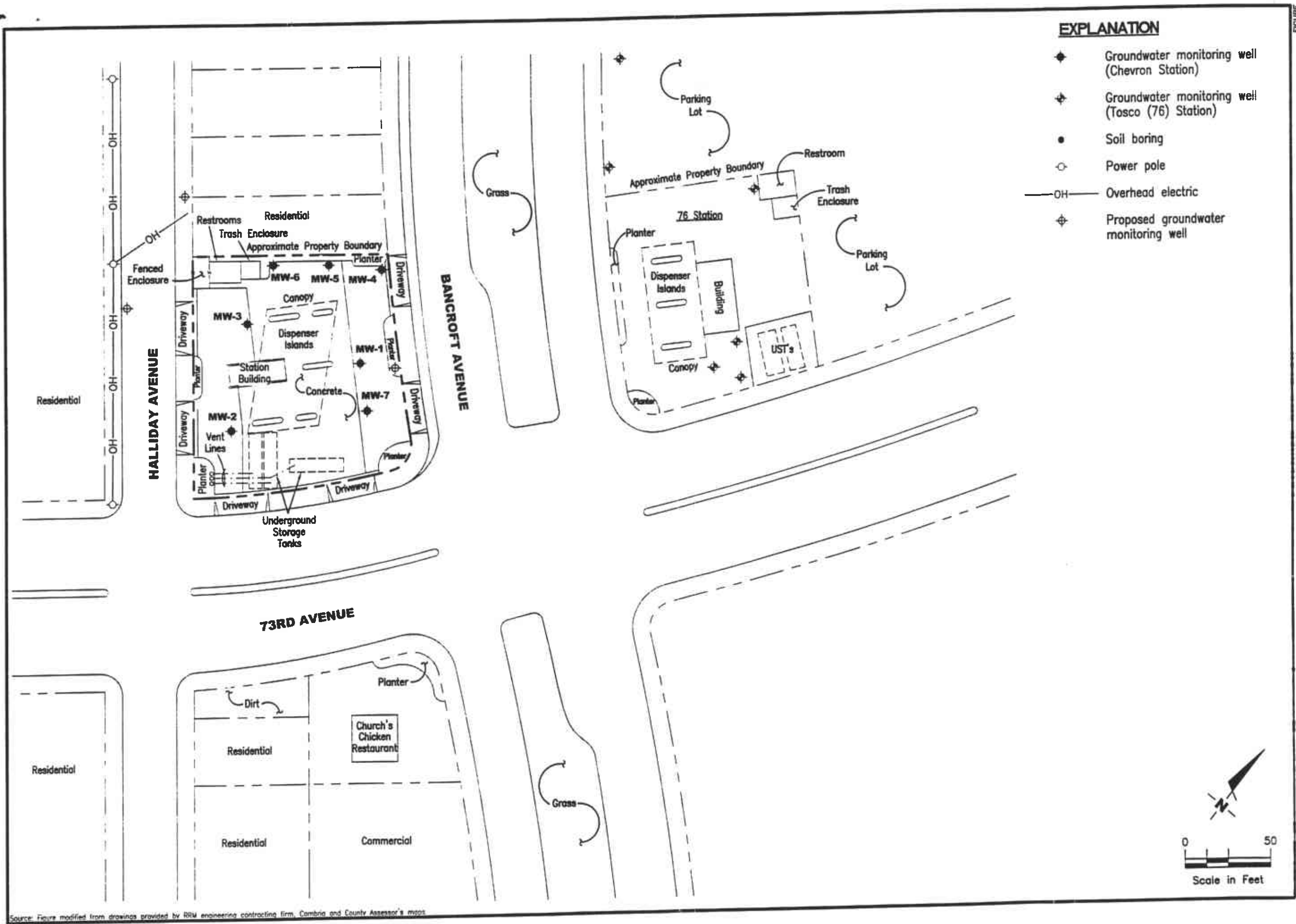


Source: USGS Topographic Map, Oakland East, 7.5

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VICINITY MAP
 Chevron Service Station No. 9-3322
 7225 Bancroft Avenue
 Oakland, California

FIGURE
1



EXPLANATION

- ◆ Groundwater monitoring well (Chevron Station)
- ◆ Groundwater monitoring well (Tosco (76) Station)
- Soil boring
- Power pole
- OH— Overhead electric
- ⊕ Proposed groundwater monitoring well



FIGURE

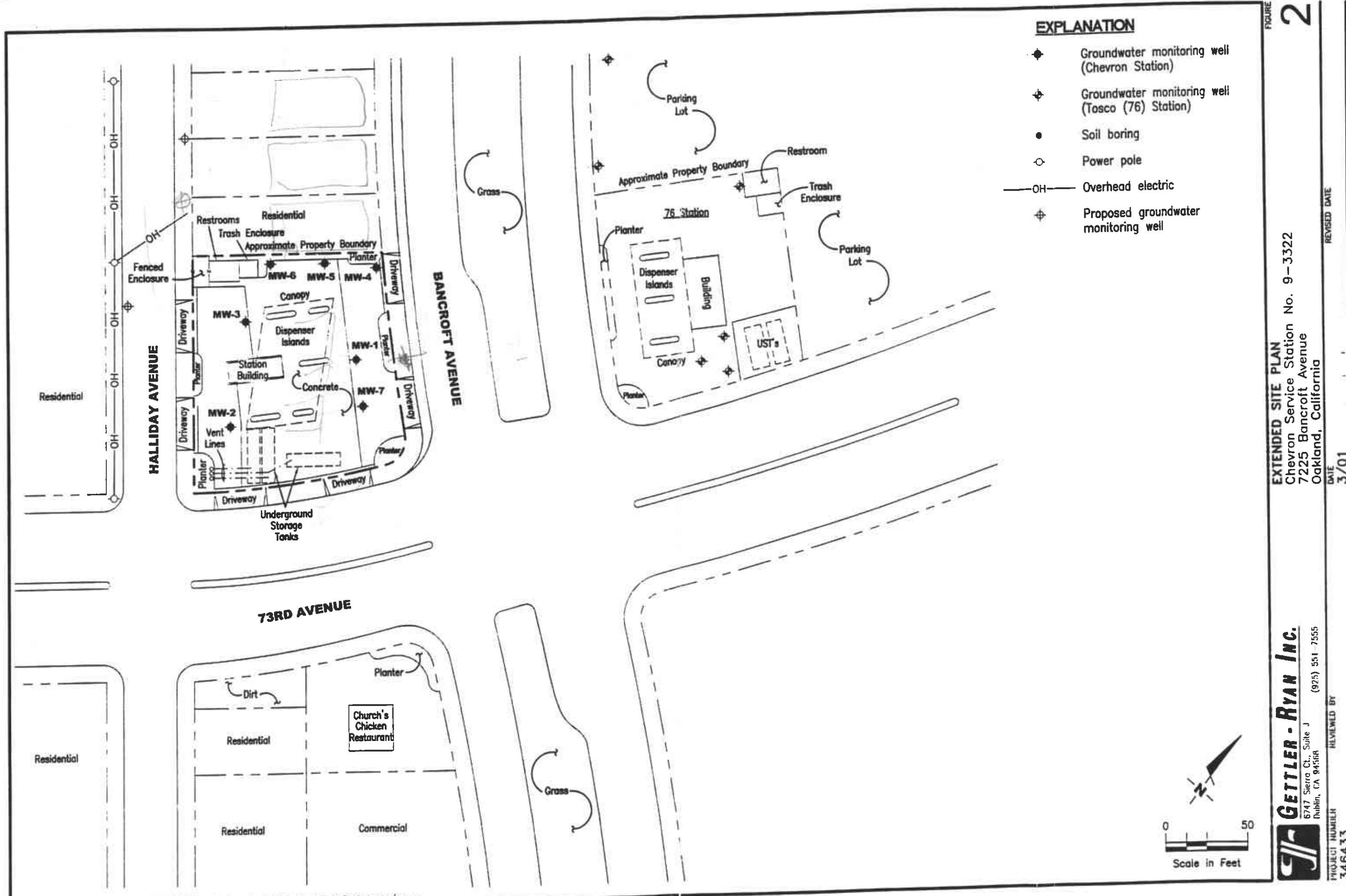
2

EXTENDED SITE PLAN
 Chevron Service Station No. 9-3322
 7225 Bancroft Avenue
 Oakland, California

GETTLER - RYAN INC.
 8747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

PROJECT NUMBER: 346433
 REVIEWED BY: [Signature]
 DATE: 3/01
 REVISED DATE: 7/01
 FILE NAME: P:\DWG00\CHEVRON\9-3322\M01-9-3322.DWG | Layout: Tab: Work Plan Rpt 3-11

Source: Figure modified from drawings provided by RRM engineering contracting firm, Contra Costa County Assessor's maps



EXPLANATION

- ◆ Groundwater monitoring well (Chevron Station)
- ◆ Groundwater monitoring well (Tosco (76) Station)
- Soil boring
- Power pole
- OH— Overhead electric
- ⊕ Proposed groundwater monitoring well

FIGURE **2**

EXTENDED SITE PLAN
 Chevron Service Station No. 9-3322
 7225 Bancroft Avenue
 Oakland, California

DATE: 3/01
 REVISED DATE:

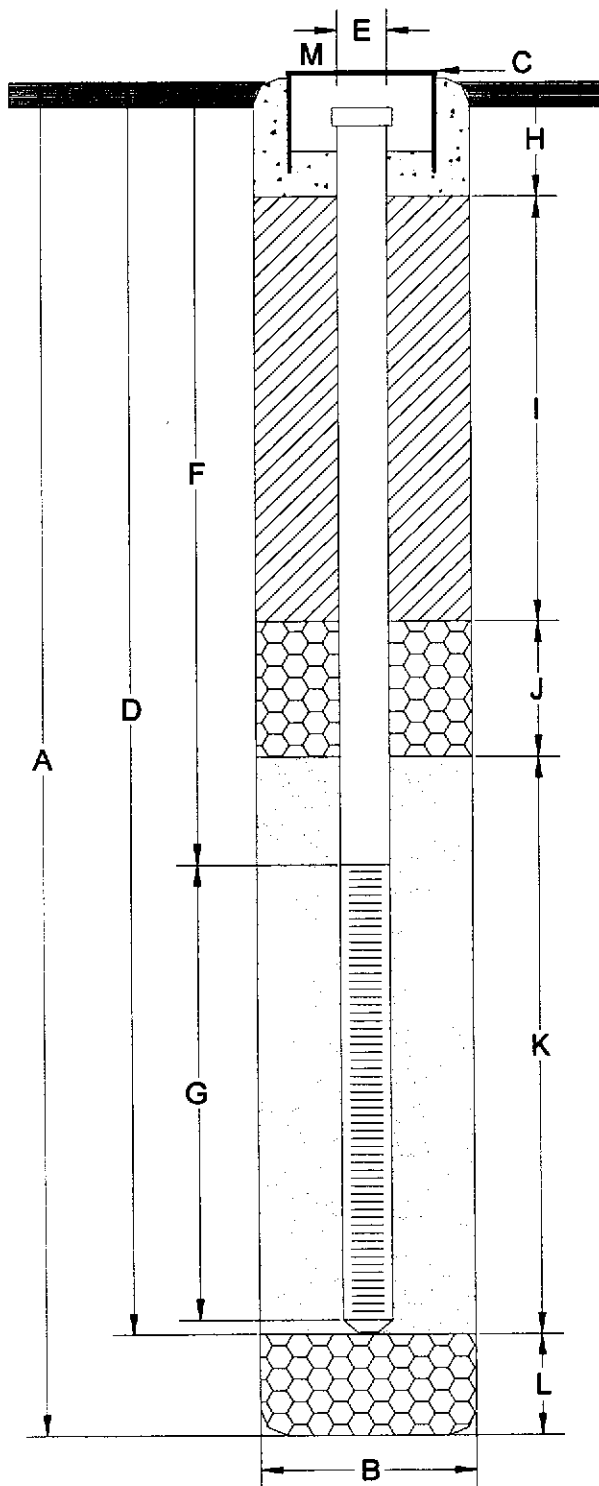
GETTLER-RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568
 (925) 551-7555

PROJECT NUMBER: 346433
 FILE NAME: P:\ENVIRO\CHEVRON\9-3322\A01-9-3322.DWG | Layout, Tab: Work Plan Rpt 3-01

REVIEWED BY:

Source: Figure modified from drawings provided by RRM engineering contracting firm, Contra Costa County Assessor's maps

PROPOSED WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 30 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow Stem Auger
- C Top of Casing Elevation NA ft.
 Referenced to Mean Sea Level
 Referenced to Project-Datum
- D Casing Length 30 ft.
Material Schedule 40 PVC
- E Casing Diameter 2 in.
- F Depth to Top Perforations 10 ft.
- G Perforated Length 20 ft.
Perforated Interval from 10 to 30 ft.
Perforation Size 0.02 in.
- H Surface Seal from 0 to 1 ft.
Seal Material Concrete
- I Backfill from 1 to 7 ft.
Backfill Material Neat Cement
- J Seal from 7 to 8 ft.
Seal Material Bentonite
- K Gravel Pack from 8 to 30 ft.
Pack Material Lonestar Sand #3
- L Bottom Seal NA ft.
Seal Material NA
- M Vault box, locking well cap, and lock.

Note: Depths measured from initial ground surface.
Wells installed in City of Oakland Right-of-Way
will be completed at surface as required by
encroachment permit conditions.

FIGURE

3



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JOB NUMBER

343322.06

REVIEWED BY

DATE

05/04/01

REVISED DATE

REVISED DATE

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES

Site Safety Plan

Fieldwork performed by Gettler-Ryan Inc. (G-R) is conducted in accordance with G-R's Health and Safety Plan (revised January 16, 1995) and the Site Safety Plan. G-R personnel and subcontractors who perform work at the site are briefed on the contents of these plans prior to initiating site work. The G-R geologist or engineer at the site when the work is performed acts as the Site Safety Officer. G-R utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Soil borings are drilled by a California-licensed well driller. A G-R geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring. Soil samples are collected from the soil boring with a split-barrel sampling device fitted with 2-inch-diameter, clean brass tube or stainless steel liners. The sampling device is driven approximately 18 inches with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler each successive 6 inches is recorded on the boring log. The encountered soils are described using the Unified Soil Classification System (ASTM 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with Teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Samples are selected for chemical analysis based on:

- a. depth relative to underground storage tanks and existing ground surface
- b. depth relative to known or suspected groundwater
- c. presence or absence of contaminant migration pathways
- d. presence or absence of discoloration or staining
- e. presence or absence of obvious gasoline hydrocarbon odors
- f. presence or absence of organic vapors detected by headspace analysis

Field Screening of Soil Samples

A PID is used to perform headspace analysis in the field for the presence of organic vapors from the soil sample. A small volume of sample (20-30 cm³) is placed in a Ziplock®-type plastic bag with headspace. After allowing the sample to warm for approximately 10 minutes, the PID sample tube is inserted into the headspace above the sample and a measurement taken. PID screening results are recorded on the boring log as reconnaissance data. G-R does not consider field-screening techniques to be verification of the presence or absence of hydrocarbons.

Construction of Monitoring Wells

Monitoring wells are constructed in the exploratory soil borings with Schedule 40 polyvinyl chloride (PVC) casing. All joints are thread-joined; no glues, cements, or solvents are used in well construction. The screened interval is constructed of machine-slotted PVC well screen that generally extends from the total well depth to a point above the groundwater. Appropriately sized sorted sand is placed in the annular adjacent to the entire screened interval. A bentonite seal is placed in the annular space above the sand, and the remaining annular space is sealed with neat cement or cement grout.

Wellheads are protected with water-resistant traffic-rated vault boxes placed flush with the ground surface. The top of the well casing is sealed with a locking waterproof cap. A lock is placed on the well cap to prevent vandalism and unintentional introduction of materials into the well.

Measurement of Water Levels

The top of the newly installed well casing is surveyed by a California-licensed Land Surveyor to mean sea level (MSL). Depth-to-groundwater in the well is measured from the top of the well casing with an electronic water-level indicator. Depth-to-groundwater is measured to the nearest 0.01-foot, and referenced to MSL.

Well Development and Sampling

The purpose of well development is to improve hydraulic communication between the well and the surrounding aquifer. Prior to development, each well is monitored for the presence of floating product and the depth-to-water is recorded. Wells are then developed by alternately surging the well with a vented surge block, then purging the well with a pump or bailer to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized. After the wells have been developed, groundwater samples are collected. Well development and sampling is performed by Gettler-Ryan Inc. of Dublin, California.

Storing and Sampling of Drill Cuttings

Drill cuttings are stockpiled on plastic sheeting and samples are collected and analyzed on the basis of one composite sample per 100 cubic yards of soil. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis.

Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless steel or brass sample tube into the stockpiled material with a hand, mallet, or drive sampler. The sample tubes are then covered on both ends with Teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.



TRANSMITTAL

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

DATE: July 2, 2001
PROJ. #: DG93322B.3C01
SUBJECT: Chevron Station #9-3322
7225 Bancroft Avenue
Oakland, California

FROM:
Tony P. Mikacich (e-mail:tmikacich@grinc.com)
Project Geologist
Gettler-Ryan Inc.
3140 Gold Camp Drive, Suite 170
Rancho Cordova, California 95670

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
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Mr. Amir Sidhu, Chevron Dealer, 32875 Bluebird Loop, Fremont, CA 94555
Mr. James Brownell, Delta Environmental Consultants, Inc., 3164 Gold Camp Dr., Suite 200, Rancho Cordova, CA 95670-6021

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July 2, 2001

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

Subject: Addendum for *Work Plan for Monitoring Well Installation*, dated May 7, 2001.
Chevron Service Station #9-3322, 7225 Bancroft Avenue, Oakland, California
Delta Project No. DG93-322

Dear Mr. Bauhs:

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants, Inc. Network Associate Gettler-Ryan Inc. (GR) has prepared this Work Plan Addendum for the installation of three groundwater monitoring wells for the above referenced site. Per telephone conversation with Alameda County Health Care Services (ACHCS) personnel on June 28, 2001, GR proposes the following two changes to the subject work plan:

- The proposed northern well location on Halliday Avenue will be moved southeast approximately 35 feet to investigate the downgradient extent of elevated hydrocarbon-impacted groundwater beneath the residential property adjacent to the site;
- One additional well will be installed in the planter approximately 25 feet east of MW-1. This well is proposed to define the free phase detected in MW-1, cross-gradient to the east. Proposed well construction details are the same as presented in the Work Plan. An Extended Site Plan presenting the proposed new well locations is attached.

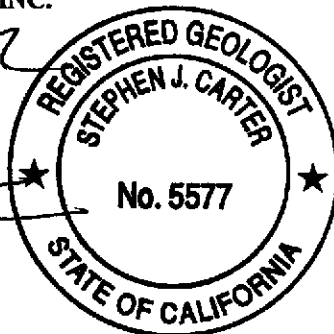
If you have any question, please do not hesitate to call me in our Rancho Cordova office at (916) 631-1300.

Sincerely,

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

Tony P. Mikacich
Project Geologist

Stephen J. Carter, R.G. 5577
Senior Geologist



CC: Mr. Don Hwang, Alameda County Health Care Services, Dept. of Environmental Health, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
Mr. Amir Sidhu, Chevron Dealer, 32875 Bluebird Loop, Fremont, CA 94555