R274

GETTLER-RYAN INC.

TRANSMITTAL

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DATE: June 26, 2002
PROJ. #: DG93322G.4CT1-1
SUBJECT: Chevron Station #9-3322
7225 Bancroft Ave.
Oakland, California

FROM:
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COMMENTS:

At the request of Chevron, GR will send the above mentioned documents to the following:

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MONITORING WELL INSTALLATION REPORT

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

Report No. DG93322G.4CT1-1
Delta Project No. DG93-322-G

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June 26, 2002

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

Report No. DG93322G.4CT1-1
Delta Project No. DG93-322-G

INTRODUCTION

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants, Inc. (Delta) network associate Gettler-Ryan Inc. (GR) has prepared this report for the installation of three groundwater monitoring wells at the former Chevron Service Station #9-3322 (currently renamed Silver Gas), located at 7225 Bancroft Avenue in Oakland, California. The purpose of this investigation was to delineate Separate-Phase Hydrocarbons (SPH) identified sporadically in well MW-1 to the east, near the property boundary, and evaluate the dissolved petroleum hydrocarbon plume to the west and northwest (cross-gradient) of the property. This work was requested by Alameda County Health Care Services Agency (ACHCSA) in a letter dated September 22, 2000. The scope of work included: obtaining the required monitoring well and encroachment permits from the Alameda County Public Works Agency (ACPWA) and the City of Oakland; updating a site safety plan; installing three monitoring wells; collecting soil samples from the well borings for description and possible analysis; surveying the newly installed wells; developing and sampling the new wells; analyzing groundwater and selected soil samples; arranging for disposal of waste material; and preparing a report documenting the findings of the investigation. This work was originally proposed in Delta's, *Work Plan for Monitoring Well Installation,* dated May 7, 2001, and in Delta's *Addendum for Work Plan for Monitoring Well Installation,* dated July 2, 2001, and was approved by the ACHCSA in a letter dated July 10, 2001.

SITE DESCRIPTION

The subject site is a former Chevron Service Station, currently an active gasoline station renamed Silver Gas, located on the northwest corner of Bancroft Avenue and 73rd Avenue. The site is bordered on the west by Halliday Avenue, on the east by Bancroft Avenue, and to the south by 73rd Avenue. The subject site is in an area utilized for both residential and commercial use. Site facilities consist of a station building, three 10,000-gallon gasoline underground storage tanks (USTs), five fuel dispenser islands with canopy, and a bathroom and storage room. Locations of pertinent site features are shown on Figure 2.

PREVIOUS ENVIRONMENTAL WORK

1996: In August, according to information provided by Chevron, GR removed the product piping at the site. A total of twelve soil samples were collected by Touchstone Developments (Touchstone) beneath the dispenser islands and product lines at depths ranging from 2 to 4 feet below surface grade (bsg). The highest concentrations of Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene in soil samples were reported beneath the center dispenser island. Historical soil chemical analytical data are presented in Table 1.

1998: In January, GR installed groundwater monitoring wells MW-1 through MW-3. The well borings were drilled to depths between 31 and 36 feet bsg. Nine soil samples were collected from well borings MW-1 through MW-3 and were analyzed for TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary-butyl ether (MtBE). Benzene was detected in one soil sample at a concentration

of 0.053 parts per million (ppm). TPHg were detected in two soil samples at concentrations of 8.2 and 23 ppm from wells MW-2 and MW-1, respectively, at 15 feet bsg. MtBE was detected in three soil samples at concentrations of 0.057 ppm, 0.40 ppm, and 0.079 ppm from wells MW-1 and MW-2 at 15 feet bsg, and well MW-2 at 10 feet bsg, 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 (MW-2) and 8,000 parts per billion (ppb; MW-3). TPHg were detected in all three groundwater samples at concentrations ranging from 24,000 (MW-2) to 130,000 ppb (MW-1). Benzene was also detected in all three groundwater samples at concentrations ranging from 130 (MW-2) to 12,000 ppb (MW-3).

1998: In July, GR conducted a search of the Department of Water Resources (DWR) 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.

1999: In January, GR installed groundwater monitoring wells MW-4 through MW-6. The well borings were drilled to depths between 31.5 and 32 feet bsg. Nine soil samples collected from the well borings and groundwater samples from the wells 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 and 14,000 ppb, respectively) and benzene (2.7 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 and 11 ppb, respectively. Benzene was detected in the groundwater sample from well MW-4 (0.52 ppb).

2000: In July, Cambria Environmental Technology, Inc. (Cambria) used direct push boring technology to advance two soil borings (B-1 and B-2) and install one ¾-inch-diameter 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 at maximum concentrations of 140 and 0.88 ppm, respectively. MtBE was detected in samples collected at a concentration of 1.7 ppm by EPA Method 8020, but MtBE was non-detect by EPA Method 8260. The highest concentrations of TPHg were detected near the water table, probably within a smear zone from the fluctuation in groundwater elevation. TPHg and benzene were detected in the groundwater sample from well MW-7 at concentrations of 11,000 and 4,300 ppb, respectively. MtBE was detected in the groundwater sample collected from boring 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.

2000: In September, Cambria advanced three borings using direct push boring technology. 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 from boring SB-5 at concentrations of 1,400 and 3.1 ppm, respectively, from a depth of approximately 24 feet bsg. 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 wells MW-3 and MW-7 at concentrations as high as 24,000 and 2,000 ppb, respectively. MtBE was detected in a sample collected from well 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 Methods. 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.

Discussion

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 to 22 feet bsg, since February 1998, but was measured at an approximate depth between 7.5 and 14 feet bsg on April 5, 2002. The nearest surface water body, Arroyo Viejo, is located approximately 1,200 feet southeast (upgradient) of the site.

SPH were measured in well MW-1 at a maximum thickness of 0.40 feet on June 6, 1999. SPH were not measurable in well MW-1 on April 1, 2002 during the new well development and sampling event for wells MW-8, MW-9, and MW-10. TPHg and MtBE in groundwater are delineated in the northern corner of the site by wells MW-4 and MW-5. TPHg and MtBE are not delineated in groundwater to the west, south, or east of the site.

On February 5, 2002, wells MW-1 through MW-6 were monitored and sampled as part of the regular scheduled, quarterly monitoring and sampling event. TPHg and benzene were detected in groundwater at concentrations of 130,000 and 16,000 ppb, respectively, from well MW-1. MtBE was reported in a sample collected from well MW-3 at a concentration of 1,100 ppb by EPA Method 8021B. Historic groundwater data are presented in Table 2.

FIELD ACTIVITIES

To further delineate SPH identified sporadically in well MW-1 to the east, and evaluate the dissolved petroleum hydrocarbon plume west and northwest (cross-gradient) of the property, GR install three groundwater monitoring wells. Field work was conducted in accordance with GR's Field Methods and Procedures (Appendix A) and Site Safety Plan dated March 13, 2002. The wells were installed under drilling permits #WO2-0058, -0059, and –0060, which were obtained from the ACPWA and Minor Encroachment Permit #ENMI-012007 was obtained from the City of Oakland. Copies of the permits are included in Appendix B. Underground Service Alert (USA) was notified prior to drilling at the site.

A GR geologist observed Gregg Drilling Inc. (C57#485165) drill and install monitoring well (MW-8) on March 13, 2002 and wells MW-9 and MW-10 on March 15, 2002, at the locations shown on Figure 2. A hand auger was used to clear the first five feet of each borehole of underground utilities. A rubber track-mounted limited-access drill rig using 8-inch diameter hollow-stem augers was used to drill the well borings to approximately 30 feet bsg. Soil samples were collected from the well borings at 5-foot intervals for description and preparation of a log, and for possible chemical analysis. The boring logs are presented in Appendix B.

Drill cuttings were placed on-site in properly labeled 55-gallon drums pending disposal. One 4-point composite sample (SP-1-4) was collected from the drummed soil for disposal characterization. Stockpile sampling procedures are presented in Appendix A.

Well Installation

The wells were constructed of 2-inch diameter polyvinyl chloride (PVC) casing to a total depth of 30 feet bsg. The bottom 20 feet of each well was screened with 0.020-inch machine-slotted casing. Lonestar #3 sand was placed in the annular space from the bottom of the boring to approximately 2 feet above the well screen (approximately 8 feet bsg). The well was then sealed with approximately one foot of hydrated bentonite followed by neat cement. A water-resistant traffic-rated well box, set in concrete, was placed over the wells. Expandable waterproof well caps with locks were then placed on the top of the well casings. Well construction details are shown on the boring logs in Appendix B.

Well Development, Monitoring, and Sampling

Wells MW-8, MW-9, and MW-10 were developed and sampled on April 1, 2002. Depth-to-water was measured in all wells at the site, and a potentiometric map was generated from this data (Figure 2). The wells were checked for the presence of SPH. SPH were not observed in the wells. The newly installed wells had abundant silt and required additional purging during development prior to becoming clear, but none of the wells de-watered during development. Following development, groundwater samples were collected from the well. Purge water generated during development and sampling procedures were transported by Chevron's contractor Integrated Wastestream Management (IWM) for disposal at McKittrick. Well development procedures are included in Appendix A. Copies of the well development/monitoring and sampling field data sheets are included in Appendix C.

Wellhead Survey

Following installation of the wells, their elevations were surveyed by Morrow Surveying of West Sacramento, California (California license #5161). Top of casing and vault box elevations were measured relative to Mean Sea Level (MSL) utilizing City of Oakland Benchmark #3787. GPS measurements and horizontal coordinates of the wells, and other site-specific details were also established. A copy of the surveyor's report is included in Appendix D. Well elevations are summarized in Table 2.

RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation generally consisted of clay with sand and clayey sand to approximately 20 feet bsg. Poorly graded sand, clayey gravel with sand, and poorly graded gravel with sand were generally encountered from approximately 20 feet bsg to the total explored depth of 30 feet bsg. Groundwater was first encountered at approximately 20 feet bsg as indicated by wet soil samples, but static water level adjusted to approximately 12 feet bsg, as measured in the wells. This is similar to conditions encountered during previous investigations at the site. Based on the groundwater monitoring data collected on April 1, 2002, shallow groundwater beneath the site is flowing to the north-northwest at a gradient of 0.02

to 0.08 (Figure 2), which is consistent with historical data. Detailed descriptions of the soil encountered during drilling are presented on the boring logs in Appendix B.

CHEMICAL ANALYTICAL RESULTS

A total of 11 soil samples from the well borings, one composite soil sample from the drummed soil cuttings, and three groundwater samples were submitted under chain-of-custody for chemical analysis. Analyses were performed by Lancaster Laboratories (ELAP No. 2116). Copies of the laboratory analytical reports and chain-of-custody are included in Appendix E.

Chemical Analytical Procedures

Soil samples from the well borings and drummed drill cuttings were analyzed for TPHg, BTEX, and MtBE by EPA Methods 8015M/8021B. The drill cuttings soil sample was also analyzed for total lead by EPA Method 6010B. Groundwater samples were analyzed for TPHg, BTEX and MtBE by EPA Methods 8015M/8021B, and for MtBE, tert-butyl alcohol (TBA), diisopropyl ether (DIPE), ethyl tert-butyl ether (EtBE), and tert-amyl methyl ether (TAME) by EPA Method 8260B.

Soil Analytical Results

TPHg and benzene were reported in a saturated soil sample collected from well boring MW-8 at 30 feet bsg at concentrations of 11 and 0.0062 ppm, respectively. TPHg, BTEX, or MtBE were not reported in any of the other samples collected and analyzed from well borings MW-8, MW-9, or MW-10. Soil chemical analytical data are summarized in Table 1.

Groundwater Analytical Results

TPHg and benzene were reported in the groundwater samples collected from wells MW-8 and MW-9 at concentrations of 1,200 and 8.6 ppb, and 94 and 1.5 ppb, respectively. TPHg or BTEX were not reported in groundwater samples collected from well MW-10. MtBE was not detected in the groundwater sample from well MW-8. MtBE was reported in groundwater samples collected from wells MW-9 and MW-10 at concentrations of 19 and 5 ppb, respectively, by EPA Method 8260B. These data are summarized in Tables 2 and 3.

WASTE DISPOSAL

Drill cuttings and auger rinsate water were removed from the site on April 3, 2002, by IWM for disposal at Republic Services Vasco Road Landfill of Livermore, California, and McKittrick Waste Treatment of McKittrick, California, respectively. Purge water generated during well development and sampling was transported by IWM to McKittrick for disposal.

CONCLUSIONS

The purpose of this investigation was to delineate SPH identified sporadically in well MW-1 to the east, near the property boundary, and evaluate the dissolved petroleum hydrocarbon plume west and northwest (cross-gradient) of the property.

TPHg, BTEX, or MtBE were not reported in unsaturated soil from well borings MW-8, MW-9, or MW-10, therefore, additional assessment of soil conditions in the vicinity of these well borings is not warranted.

The dissolved hydrocarbon plume is virtually defined downgradient with the exception of MtBE reported at a concentration of 5 ppb in well MW-10. Groundwater monitoring data collected from well MW-8 indicate that SPH were not present, and that the SPH are defined to the east of well MW-1.

Wells MW-8, MW-9, and MW-10 will be incorporated into the site's quarterly monitoring and sampling events. Groundwater samples from wells MW-8, MW-9, and MW-10 will be analyzed for TPHg, BTEX, and MtBE by EPA Methods 8015M/8021B. Based on the data collected during this investigation, no additional subsurface assessment work is warranted at this time.

GR recommends at least four additional quarters of groundwater data be collected, including the new wells, before determining if additional work is necessary at this site.

Table 1 - Soil Chemical Analytical Results

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

Sample ID	Sample Depth (ft)	Sample Date	TPHg (ppm)	Lead (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MtBE (ppm)
Historic									
P1-2'	2	8/27/1996	ND	ND	**0.011**	ND	ND	**0.022**	**0.65/*NA***
P2-2'	2	8/27/1996	ND	ND	ND	ND	ND	**0.024**	**0.47/*NA***
P3-2'	2	8/27/1996	ND	ND	ND	ND	ND	**0.0074**	**0.15/*NA***
P4-2'	2	8/27/1996	ND	ND	ND	ND	ND	**0.011**	**0.19/*NA***
P5-3'	3	8/27/1996	ND	ND	ND	**0.0095**	ND	**0.0072**	ND/*NA*
P6-4'	4	8/27/1996	**500**	ND	ND	**8.1**	**7.3**	**59**	ND/*NA*
P7-3'	3	8/27/1996	**200**	ND	**4.2**	**13**	**4.5**	**31**	ND/*NA*
P8-3'	3	8/27/1996	**250**	ND	**1.6**	**10**	**5.3**	**32**	ND/*NA*
P9-4'	4	8/27/1996	ND	ND	ND	ND	ND	ND	ND/*NA*
P10-4'	4	8/27/1996	**40**	**6.1**	**0.33**	**1.8**	**0.56**	**1.7**	**1.1/*NA***
P11-3'	3	8/27/1996	ND	ND	ND	ND	ND	**0.0082**	**0.092/*NA***
P12-3'	3	8/27/1996	**6.0**	ND	**0.059**	**0.011**	**0.015**	**0.35**	**0.65/*NA***
MW1-6	6	1/22/1998	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025/*NA*
MW1-11	11	1/22/1998	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025/*NA*
MW1-15	15	1/22/1998	**23***	---	**0.053**	**0.014**	**0.28**	**0.99**	**0.057/*NA***
MW2-6	6	1/22/1998	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025/*NA*
MW2-11	11	1/22/1998	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	**0.079/*NA***
MW2-15	15	1/22/1998	**8.2***	---	<0.0050	**0.022**	**0.012**	**0.065**	**0.40/*NA***
MW3-6	6	1/22/1998	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025/*NA*
MW3-11	11	1/22/1998	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025/*NA*
MW3-16	16	1/22/1998	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025/*NA*
MW4-11	11	1/22/1999	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.050/*NA*
MW4-15	15	1/22/1999	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.050/*NA*
MW4-20	20	1/22/1999	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.050/*NA*
MW5-11	11	1/22/1999	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.050/*NA*
MW5-16	16	1/22/1999	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.050/*NA*
MW5-21	21	1/22/1999	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.050/*NA*
MW6-10.5	10.5	1/22/1999	---	---	---	---	---	---	---
MW6-11	11	1/22/1999	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.050/*NA*
MW6-16	16	1/22/1999	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.050/*NA*
MW6-21	21	1/22/1999	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.050/*NA*
B1-10'	10	7/03/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.050/*NA*
B1-17.5'	17.5	7/03/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	**0.083/*NA***
B2-5'	5	7/03/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.050/*NA*
B2-10'	10	7/03/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.050/*NA*
B2-18'	18	7/03/2000	**140**	---	**0.88**	**1.1**	**5.8**	**1.1**	**1.7/*<0.10***
B3-10'	10	7/03/2000	<1.0	---	**0.016**	<0.005	<0.005	**0.01**	<0.050/*NA*
B3-15'	15	7/03/2000	**94**	---	**0.21**	**0.68**	**1.9**	**8.7**	<0.050/*NA*
B3-19'	19	7/03/2000	**58**	---	**0.21**	**0.52**	**1.2**	**5.9**	<0.050/*NA*
SB4-3'	3	9/25/2000	<1.0	---	<0.005	<0.005	<0.005	**0.014**	NA/*<0.10*
SB4-5'	5	9/25/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	NA/*<0.10*
SB4-10'	10	9/25/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	NA/*<0.10*
SB4-15'	15	9/25/2000	**58**	---	**0.14**	**0.24**	**0.33**	**0.86**	NA/*<0.10*
SB4-18'	18	9/25/2000	**96**	---	**0.25**	**0.62**	**1.3**	**5.7**	NA/*<0.10*
SB4-20'	20	9/25/2000	**21**	---	**0.25**	**0.58**	**0.25**	**1.3**	NA/*<0.10*
SB4-24'	24	9/25/2000	<1.0	---	<0.005	<0.005	<0.005	**0.017**	NA/*<0.10*
SB5-3'	3	9/25/2000	<1.0	---	**0.0081**	**0.0094**	**0.012**	**0.014**	NA/*<0.10*
SB5-5'	5	9/25/2000	<1.0	---	**0.0051**	**0.0052**	**0.01**	**0.016**	NA/*<0.10*
SB5-10'	10	9/25/2000	<1.0	---	<0.005	<0.005	<0.005	**0.016**	NA/*<0.10*
SB5-16'	16	9/25/2000	**65**	---	**0.22**	**0.27**	**0.34**	**0.77**	NA/*<0.10*
SB5-20'	20	9/25/2000	**19**	---	**0.079**	**0.099**	**0.083**	**0.21**	NA/*<0.10*
SB5-24'	24	9/25/2000	**1,400**	---	**3.1**	**10**	**28**	**150**	NA/*<0.10*

Table 1 - Soil Chemical Analytical Results

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

Sample ID	Sample Depth (ft)	Sample Date	TPHg (ppm)	Lead (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MtBE (ppm)
SB6-3'	3	9/25/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	NA/*<0.10*
SB6-5'	5	9/25/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	NA/*<0.10*
SB6-10'	10	9/25/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	NA/*<0.10*
SB6-23'	23	9/25/2000	<1.0	---	<0.005	<0.005	<0.005	<0.005	NA/*<0.10*
Recent									
MW-8-S-6.5	6.5	3/13/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
MW-8-S-11.5	11.5	3/13/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
MW-8-S-16.5	16.5	3/13/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
MW-8-S-21.5	21.5	3/13/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
MW-8-S-30	30	3/13/2002	**11**	---	**0.0062**	<0.0050	<0.0050	<0.060	<0.050/*NA*
MW-9-S-11.5	11.5	3/15/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
MW-9-S-21.5	21.5	3/15/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
MW-9-S-30	30	3/15/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
MW-10-S-11.5	11.5	3/15/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
MW-10-S-21.5	21.5	3/15/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
MW-10-S-30	30	3/15/2002	<1.0	---	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*
SP-1-4-S	---	3/15/2002	<1.0	**5.2**	<0.0050	<0.0050	<0.0050	<0.015	<0.050/*NA*

Explanation:
TPHg = Total Petroleum Hydrocarbons as gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
MtBE = Methyl tert-butyl ether
ppm = Parts per million
NA = Not analyzed

Analytical Methods for Samples Collected 3/13/02 and 3/15/02
TPHg by EPA Method 8015M
BTEX/MtBE by EPA Method 8021B
Lead by EPA Method 6010B

Analytical Laboratory for Samples collected 3/13/02 and 3/15/02
Lancaster Laboratories (ELAP # 2116)

Notes:
* Laboratory reports chromatogram indicates weathered gasoline in C6-C12 range

Soil samples collected on 9/25/2000 were analyzed for semi-volatile organic compounds by EPA Method 8270B, organochloride pesticides by EPA Method 8081A, polychlorinated biphenyls by EPA Method 8082 and CAM 17 metals by EPA Method 6000/7000 Series Method. The compounds detected were below Primary Reporting Goals (PRGs) and Maximum Contaminant Levels (MCLs).

Table 2

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3322

7225 Bancroft Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1											
02/08/98	40.41	26.53	13.88	--	--	130,000	9,700	8,200	3,200	15,000	<250
06/16/98	40.41	26.18	14.23	--	--	96,000	15,000	12,000	2,600	11,000	1,300
07/29/98	40.41	22.59	17.82	--	--	370,000	19,000	14,000	5,800	15,000	<2,500
08/13/98	40.41	22.01	18.40	--	--	120,000	19,000	16,000	2,900	14,000	<1,000
11/24/98	40.41	19.61	20.80	--	--	100,000	26,000	18,000	4,000	22,000	2,000
02/03/99	40.41	22.96	17.45	--	--	110,000	27,000	16,000	3,800	22,000	<2.5
06/07/99	40.41	24.29**	16.44	0.40	0.03	--	--	--	--	--	--
09/07/99	40.41	19.97**	20.71	0.34	0.01	--	--	--	--	--	--
10/27/99	40.41	18.93**	21.75	0.34	0.03	--	--	--	--	--	--
02/08/00	40.41	22.44	17.97	0.00	0.00	147,000	19,600	13,700	4,020	21,300	<2,500
05/05/00	40.41	24.36	16.05	0.00	0.00	150,000[2]	28,000	17,000	4,400	23,000	<1,000
07/28/00	40.41	21.21	19.20	0.00	0.00	76,000[2]	20,000	15,000	3,400	23,000	1,200
11/26/00	40.41	20.44**	20.18	0.26	0.26[4]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
02/09/01	40.41	22.40**	18.03	0.03	0.26[4]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
05/11/01	40.41	25.31	15.10	0.00	0.00	89,000[2]	21,000	12,000	3,200	14,000	<500
08/30/01	40.41	20.05**	20.42	0.07	0.26[4]	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
11/21/01	40.41	20.11**	20.52	0.27	0.00	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
02/05/02	40.41	25.79**	14.63	0.01	0.00	130,000	16,000	13,000	4,200	23,000	<30
04/01/02	**37.40**	**25.03**	**12.37**	**0.00**	**0.00**	--	--	--	--	--	--
MW-2											
02/08/98	38.73	31.13	7.60	--	--	24,000	130	170	450	1,900	2,300
06/16/98	38.73	29.61	9.12	--	--	8,900	31	46	310	1,100	260
07/29/98	38.73	27.06	11.67	--	--	7,600	15	21	150	480	82
08/13/98	38.73	26.32	12.41	--	--	14,000	26	80	500	2,100	32
11/24/98	38.73	23.10	15.63	--	--	37,000	63	220	1,300	7,100	770
02/03/99	38.73	27.16	11.57	--	--	16,000	140	110	850	3,100	900
06/07/99	38.73	27.78	10.95	--	--	4,300	<10	<10	120	260	160
09/07/99	38.73	26.00	12.73	--	--	10,700	50.5	<25	297	1,020	<250

Table 2

Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-3322
7225 Bancroft Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2 (cont)											
10/27/99	38.73	26.02	12.71	--	--	7,240	53.8	31.9	234	654	448
02/08/00	38.73	28.59	10.14	--	--	10,100	42.9	18.4	424	1,480	206
05/05/00	38.73	28.61	10.12	0.00	0.00	7,800[2]	34	22	320	1,100	170
07/28/00	38.73	26.16	12.57	0.00	0.00	6,700[2]	40	13	490	540	190
11/26/00	38.73	26.83	11.90	0.00	0.00	8,200[2]	21	9.5	400	1,100	120
02/09/01	38.73	26.53	12.20	0.00	0.00	11,200[3]	<50.0	<50.0	629	1,380	282
05/11/01	38.73	29.75	8.98	0.00	0.00	6,800[2]	39	19	370	1,100	67
08/30/01	38.73	25.83	12.90	0.00	0.00	17,000	67	<25	750	2,100	360
11/21/01	38.73	25.61	13.12	0.00	0.00	3,500	14	<5.0	100	51	610
02/05/02	38.73	30.38	8.35	0.00	0.00	10,000	5.5	<10	330	960	63
04/01/02	**35.72**	**27.91**	**7.81**	**0.00**	**0.00**	--	--	--	--	--	--
MW-3											
02/08/98	39.51	24.91	14.60	--	--	94,000	12,000	4,400	2,000	10,000	8,000
06/16/98	39.51	25.53	13.98	--	--	38,000	5,600	1,400	1,200	4,700	6,300/4,600[1]
07/29/98	39.51	22.14	17.37	--	--	58,000	4,100	700	1,300	4,200	4,100
08/13/98	39.51	21.29	18.22	--	--	43,000	6,800	1,900	1,600	6,800	2,300
11/24/98	39.51	19.06	20.45	--	--	40,000	5,000	800	1,600	6,800	6,000/4,400[1]
02/03/99	39.51	22.03	17.48	--	--	47,000	7,100	1,600	1,900	9,000	5,000
06/07/99	39.51	23.76	15.75	--	--	27,000	2,500	540	1,200	3,900	2,800
09/07/99	39.51	19.80	19.71	--	--	44,000	3,930	1,170	1,760	7,130	3,440
10/27/99	39.51	19.09	20.42	--	--	28,200	2,030	620	1,260	5,080	1,710
02/08/00	39.51	21.76	17.75	--	--	25,300	2,000	668	1,210	5,330	1,760
05/05/00	39.51	23.87	15.64	0.00	0.00	27,000[2]	2,600	960	1,500	5,200	2,500
07/28/00	39.51	21.28	18.23	0.00	0.00	7,400[2]	950	360	840	3,200	1,700
11/26/00	39.51	20.13	19.38	0.00	0.00	20,000[2]	1,800	690	1,400	5,500	1,600
02/09/01	39.51	21.79	17.72	0.00	0.00	31,200[3]	1,980	<50.0	1,770	7,220	2,170
05/11/01	39.51	24.86	14.65	0.00	0.00	18,000[2]	3,000	780	1,600	5,500	1,800
08/30/01	39.51	20.16	19.35	0.00	0.00	9,400	570	180	610	1,900	880

Table 2

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3322

7225 Bancroft Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)											
11/21/01	39.51	19.47	20.04	0.00	0.00	29,000	1,100	450	1,500	6,100	1,200
02/05/02	39.51	25.42	14.09	0.00	0.00	16,000	820	210	830	2,400	1,100
04/01/02	**36.53**	**24.32**	**12.21**	**0.00**	**0.00**	--	--	--	--	--	--
MW-4											
02/02/99	40.24	27.07	13.17	--	--	<50	0.52	<0.5	<0.5	<0.5	6.0
06/07/99	40.24	23.83	16.41	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/07/99	40.24	19.34	20.90	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/27/99	40.24	18.65	21.59	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/08/00	40.24	23.08	17.16	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/05/00	40.24	24.22	16.02	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/28/00	40.24	21.12	19.12	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/26/00	40.24	20.32	19.92	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/09/01	40.24	22.79	17.45	0.00	0.00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/11/01	40.24	25.22	15.02	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/30/01	40.24	19.91	20.33	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/21/01	40.24	20.49	19.75	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/05/02	40.24	26.18	14.06	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/01/02	**37.29**	**25.23**	**12.06**	**0.00**	**0.00**	--	--	--	--	--	--
MW-5											
02/02/99	40.37	21.57	18.80	--	--	72	2.7	<0.5	<0.5	<0.5	11
06/07/99	40.37	23.39	16.98	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/07/99	40.37	19.24	21.13	--	--	<50	<0.5	<0.5	<0.5	<0.5	6.92
10/27/99	40.37	18.45	21.92	--	--	<50	2.39	<0.5	<0.5	<0.5	21.3
02/08/00	40.37	21.39	18.98	--	--	<50	10.6	<0.5	<0.5	<0.5	21.7
05/05/00	40.37	23.48	16.89	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	3.8
07/28/00	40.37	20.88	19.49	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5

Table 2

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3322

7225 Bancroft Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5 (cont)											
11/26/00	40.37	19.68	20.69	0.00	0.00	<50	0.57	<0.50	<0.50	<0.50	15
02/09/01	40.37	21.50	18.87	0.00	0.00	<50.0	<0.500	<0.500	<0.500	<0.500	9.11
05/11/01	40.37	24.47	15.90	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/30/01	40.37	19.76	20.61	0.00	0.00	<50	<0.50	<0.50	<0.50	<0.50	9.5
11/21/01	40.37	19.33	21.04	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	7.3
02/05/02	40.37	25.16	15.21	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/01/02	**37.40**	**23.95**	**13.45**	**0.00**	**0.00**	--	--	--	--	--	--
MW-6											
02/02/99	39.84	21.36	18.48	--	--	14,000	5,600	<50	150	160	<250
06/07/99	39.84	23.39	16.45	--	--	1,500	1,100	33	25	34	200
09/07/99	39.84	19.35	20.49	--	--	6,550	2,940	81.5	177	84	865
10/27/99	39.84	18.61	21.23	--	--	3,680	1,240	29.6	115	14.9	735
02/08/00	39.84	21.44	18.40	--	--	17,300	8,920	<100	378	211	2,610
05/05/00	39.84	23.48	16.36	0.00	0.00	4,200[2]	1,900	98	170	290	1,300
07/28/00	39.84	20.90	18.94	0.00	0.00	1,200[2]	660	30	83	36	650
11/26/00	39.84	19.71	20.13	0.00	0.00	7,600[2]	4,300	63	360	110	2,000
02/09/01	39.84	21.44	18.40	0.00	0.00	18,200[3]	7,090	<100	457	169	2,930
05/11/01	39.84	24.39	15.45	0.00	0.00	2,600[2]	2,300	31	88	40	990
08/30/01	39.84	19.82	20.02	0.00	0.00	2,500	1,600	50	160	100	1,900
11/21/01	39.84	19.22	20.62	0.00	0.00	25,000	8,800	150	620	330	2,900
02/05/02	39.84	24.04	15.80	0.00	0.00	1,400	400	6.8	27	20	480
04/01/02	**36.90**	**23.08**	**13.82**	**0.00**	**0.00**	--	--	--	--	--	--
MW-8											
04/01/02[6]	**37.21**	**26.11**	**11.10**	**0.00**	**0.00**	**1,200**	**8.6**	**<0.50**	**2.5**	**2.5**	**<2.5/<2[5]**

Table 2

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3322

7225 Bancroft Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9											
04/01/02[6]	**35.03**	**24.41**	**10.62**	**0.00**	**0.00**	**94**	**1.5**	**<0.50**	**<0.50**	**<1.5**	**25/19[5]**
MW-10											
04/01/02[6]	**35.53**	**23.81**	**11.72**	**0.00**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**6.1/5[5]**
TRIP BLANK											
02/08/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/16/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/29/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/13/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/24/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/02/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/03/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/07/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/07/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/27/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/08/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/05/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/28/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/26/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/09/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/11/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/30/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA											
11/21/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/05/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/01/02	**--**	**--**	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**

Table 2

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3322

7225 Bancroft Avenue

Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 5, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
SPHT = Separate Phase Hydrocarbon Thickness
SPH = Separate Phase Hydrocarbons

TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether
(ppb) = Parts per billion

-- = Not Measured/Not Analyzed
QA = Quality Assurance

* TOC elevations were surveyed in April 2002, by Morrow Surveying. Elevations are based on City of Oakland Benchmark designated 3787 in field book 1595, page 50; cut square northerly curb on Krause Ave., approx. 37 feet westerly of PL westerly of 73rd Ave., (Elevation = 33.82 feet).

** GWE corrected for the presence of free product; correction factor: [(TOC - DTW) + (SPHT x 0.8)].

1 Confirmation run.

2 Laboratory report indicates gasoline C6-C12.

3 Laboratory report indicates weathered gasoline C6-C12.

4 Product and water removed.

5 MTBE by EPA Method 8260.

6 Well development performed.

Table 3

Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-3322
7225 Bancroft Avenue
Oakland, California

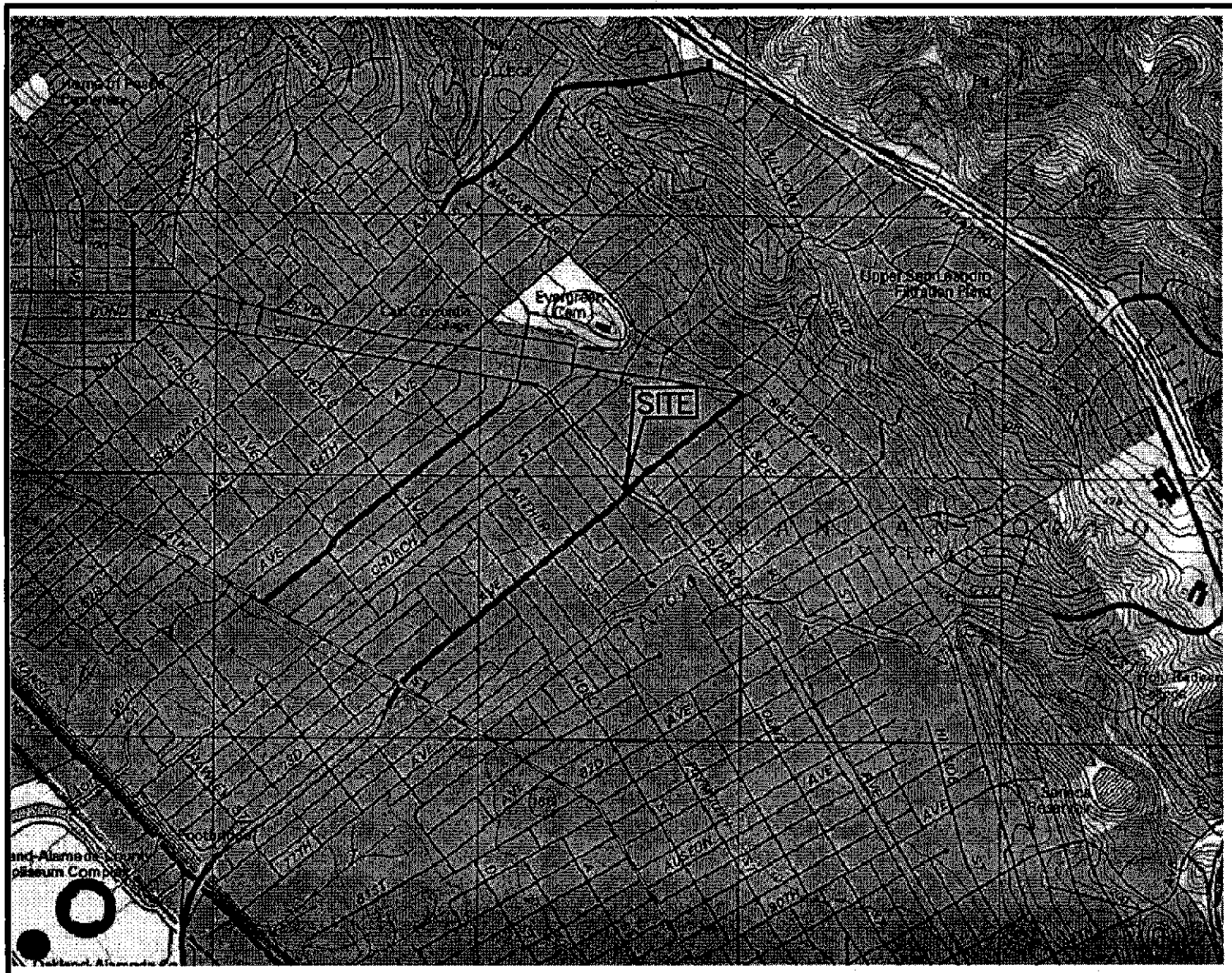
WELL ID	DATE	TBA *(ppb)*	MTBE *(ppb)*	DIPE *(ppb)*	ETBE *(ppb)*	TAME *(ppb)*
MW-8	04/01/02	<100	<2	<2	<2	<2
MW-9	04/01/02	<100	19	<2	<2	<2
MW-10	04/01/02	<100	5	<2	<2	<2

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
(ppb) = Parts per billion

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds



Source: National Geographic California Seamless USGS Topographic Maps on CD-ROM.

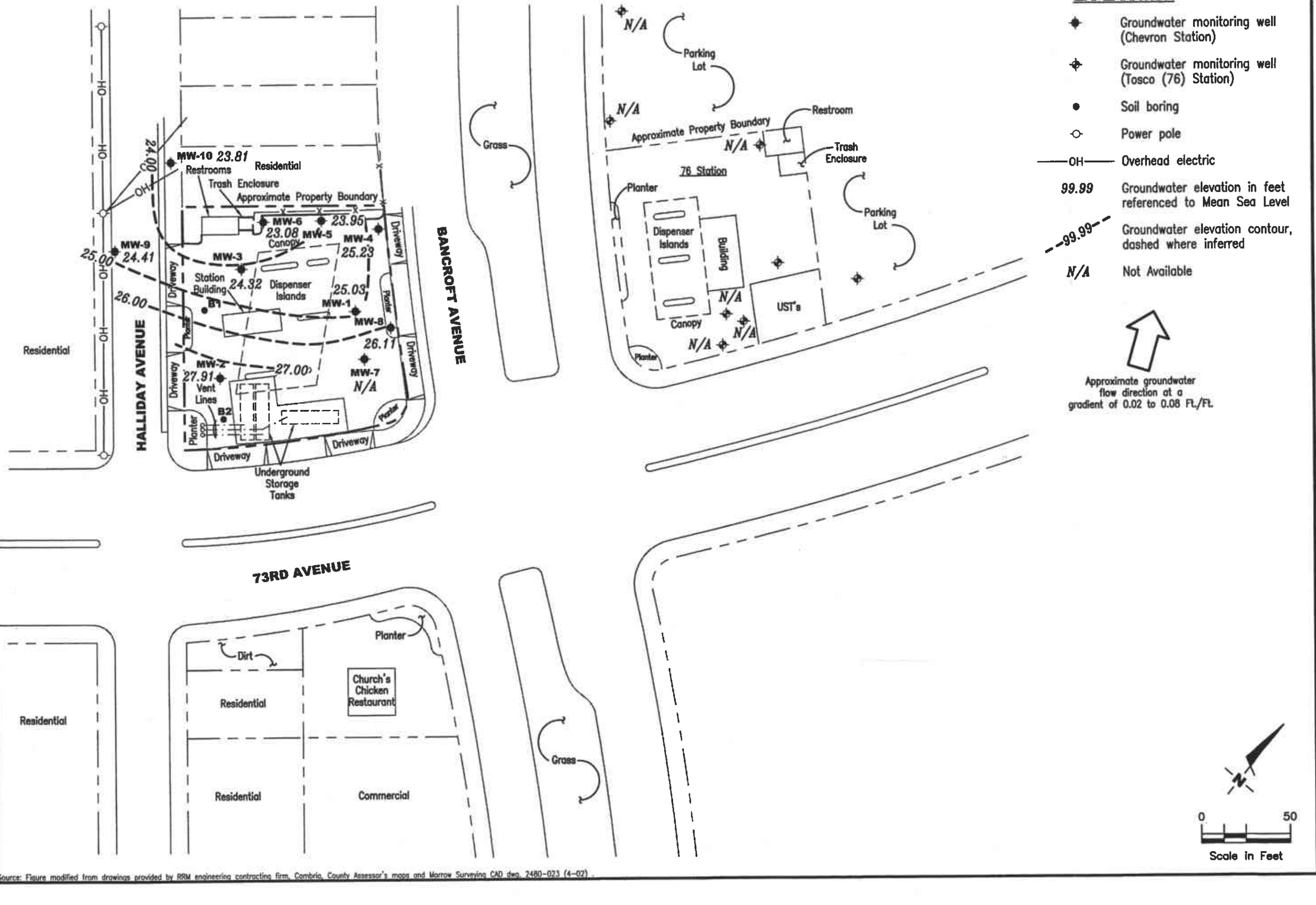
GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

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

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
DG93322G.4CT1		4/02	

FILE NAME: P:\ENVIRO\CHEVRON\9-3322\VIC-9-3322.DWG | Layout Tab: Vic Map



Source: Figure modified from drawings provided by RRM engineering contracting firm, Combrio, County Assessor's maps and Morrow Surveying CAD dwg. 2480-023 (4-02).

FIGURE 2

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

DATE April 1, 2002

REVISED DATE

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

PROJECT NUMBER DG93322G.4CT1

REVIEWED BY

FILE NAME: P:\ENVIRO\CHEVRON\9-3322\A01-9-3322.DWG | Layout: Tab: Well Install 5-02

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES
WELL INSTALLATION

Site Safety Plan

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

Collection of Soil Samples

Collection, preservation, and analysis of samples is performed in accordance with the California Code of Regulations Title 23, Division 3, Chapter 16, *Underground Tank Regulations* (June 2001), the Central Valley Regional Water Quality Control Board's *Tri-Regional Board Staff Recommendations for Preliminary Investigation And Evaluation Of Underground Tank Sites* (August 1990), Environmental Protection Agency *SW-846 Methods* (November 2000), and local agency guidelines.

Well borings are drilled by a California-licensed well driller. A GR 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 under the supervision of a California Registered Geologist. Soil samples are collected from the soil boring with a split-barrel sampling device fitted with 2-inch-diameter, clean brass tubes 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 2488-93) and the Munsell Soil Color Chart or GSA Rock Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation to 48C628C. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to a California state-certified hazardous material testing laboratory. Samples are selected for chemical analysis based in part on:

a. depth relative to underground storage tanks and existing ground surface
b. depth relative to known or suspected groundwater
c. depth relative to areas of known hydrocarbon impact at the site
d. presence or absence of contaminant migration pathways
e. presence or absence of discoloration or staining
f. presence or absence of obvious gasoline hydrocarbon odors
g. 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. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap, or by placing a small amount of the soil to be screened in a sealable plastic bag. The soil is warmed in the sun to allow organic compounds in the sample to volatilize. The PID probe is inserted into the headspace inside the tube

through a hole in the plastic cap or through the wall of the plastic bag. Headspace screening results are recorded on the boring log. Headspace screening procedures are performed and results recorded as reconnaissance data. GR 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 well 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, which generally extends from the total well depth to a point above the groundwater. An appropriately sized sorted sand is placed in the annular space adjacent to the entire screened interval. A bentonite transition 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). The surveyor also obtains the horizontal coordinates of the well location including GPS longitude and latitude. 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.

Storing and Sampling of Drill Cuttings

Drill cuttings are either drummed, or stockpiled on and covered with plastic sheeting, and samples are collected and analyzed for disposal classification on the basis of one composite sample per 100 cubic yards of soil. Drill cuttings samples are composed of four discrete soil samples, each collected from an arbitrary location. The four discrete samples are then composited at the laboratory prior to analysis.

Each discrete drill cuttings 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 by hand, mallet, or drive sampler. The sample tubes are then covered on both ends with Teflon sheeting, 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.

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 7225 Bancroft Ave., Oakland, CA (Chevron #9-3822)

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone N/A
City San Ramon Zip 94583

APPLICANT
Name Gettler-Ryan Inc. Fax (916)631-1317
Address 3140 Gold Camp Dr., Suite Phone 631-1300
City 170, Rancho Cordova, Zip 95670

TYPE OF PROJECT
Well Construction (circled) ~~Geotechnical Investigation~~
Cathodic Protection ☐ General ☐
Water Supply ☐ Contamination X
Monitoring X Well Destruction ☐

PROPOSED WATER SUPPLY WELL USE
New Domestic ☐ Replacement Domestic ☐
Municipal ☐ Irrigation ☐
Industrial ☐ Other ________ ☐

DRILLING METHOD:
Mud Rotary ☐ Air Rotary ☐ Auger X
Cable ☐ Other ☐

DRILLER'S NAME Cascade Drilling Inc. Gregg
DRILLER'S LICENSE NO. C-57 717510

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 30 ft.
Casing Diameter 2 in. Owner's Well Number MW-8
Surface Seal Depth 7 ft. (min 5 ft.)

GEOTECHNICAL PROJECTS
Number of Borings ______ Maximum
Hole Diameter ______ in. Depth ______ ft.

ESTIMATED STARTING DATE ~~02/12/02~~ 03/13/02
ESTIMATED COMPLETION DATE ~~02/12/02~~

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Tony Mikacich DATE 01/22/02

PLEASE PRINT NAME Tony Mikacich Rev.5-13-00

FOR OFFICE USE

PERMIT NUMBER W02-0058
WELL NUMBER ______
APN ______

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. (circled) Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. (circled) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. (circled) SPECIAL CONDITIONS #1 Attached

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 1-24-02

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 7225 Bancroft Ave., Oakland, CA (Chevron #9-3322)

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone N/A
City San Ramon Zip 94583

APPLICANT
Name Gettler-Ryan Inc. Fax (916)631-8917
Address 3140 Gold Camp Dr., Suite Phone 631-1300
City Rancho Cordova, Zip 95670

TYPE OF PROJECT

(Well Construction)		~~Geotechnical Investigation~~	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☒
Monitoring	☒	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☒
Cable	☐	Other	☐		

DRILLER'S NAME Cascade Drilling Inc. (Gregg)
DRILLER'S LICENSE NO. C-57 # 717510

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 30 ft.
Surface Seal Depth 1 ft. Owner's Well Number MW-9
(1 MIN SEAL)

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 02/12/02 (03/13/02)
ESTIMATED COMPLETION DATE 02/12/02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Tony Mikacich DATE 01/22/02

PLEASE PRINT NAME Tony Mikacich

Rev.5-13-00

FOR OFFICE USE

PERMIT NUMBER W02-0059
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS #1 Attached

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED _____ DATE 1-24-02

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 7225 Bancroft Ave., Oakland, CA (Chevron #9-3322)

CLIENT
Name Chevron Products Company
Address P.O. Box 6004 Phone N/A
City San Ramon Zip 94583

APPLICANT
Name Gettler-Ryan Inc. Fax (916) 631-1317
Address 2140 Gold Camp Dr., Suite 200 Phone 631-1200
City Rancho Cordova Zip 95670

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	X
Monitoring	X	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	X
Cable	☐	Other	☐		

DRILLER'S NAME Cascade Drilling Inc. Gregg

DRILLER'S LICENSE NO. C-57 # 717510

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 30 ft.
Casing Diameter 2 in. Owner's Well Number MW-10
Surface Seal Depth 1 ft. Min 5ft

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 02/12/02 03/13/02
ESTIMATED COMPLETION DATE 02/12/02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Tony Mikacich DATE 01/22/02

PLEASE PRINT NAME Tony Mikacich

Rev.5-13-00

FOR OFFICE USE

PERMIT NUMBER W02-0060
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS W-7 Attached

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED _____ DATE 1-24-02

Recording Requested by:
CITY OF OAKLAND

When Recorded Mail to:
City of Oakland
Community & Economic
Development Agency
Building Services Division,
Engineering Information
250 Frank H. Ogawa Plaza, 2nd Floor
Oakland, CA 94612

TAX ROLL PARCEL NUMBER
(ASSESSOR'S REFERENCE NUMBER)

039	3300	030	03
MAP	BLOCK	PARCEL	SUB

Address: 7225 BANCROFT AVENUE

Space Above for Recorder's Use Only

MINOR ENCROACHMENT PERMIT AND AGREEMENT

Gettler – Ryan Inc. is hereby granted a Conditional Revocable Permit to encroach into the public right-of-way of Halliday Avenue to install two monitoring wells. The location of said encroachment shall be as delineated in Exhibit 'A' attached hereto and made a part hereof. Gettler – Ryan Inc. was authorized by Chevron Products Company (Chevron) to act on their behalf in conducting all business related to obtaining the encroachment permit (see Exhibit 'B').

The permittee agrees to comply with and be bound by the conditions for granting an Encroachment Permit attached hereto and made a part hereof.

This agreement shall be binding upon the undersigned, the present owners of the property described above, and their successors in interest thereof.

In witness whereof, I have set my signature this 27th day of NOV, 2001.

Gettler – Ryan Inc.

David A. Byron

NAME: DAVID A. BYRON

TITLE: VICE-PRESIDENT

----------*Below for Official Use Only*----------

CITY OF OAKLAND

Dated: _____

By: _____
CALVIN N. WONG
Director of Building Services
For:
WILLIAM E. CLAGGETT
Executive Director,
Community & Economic Development Agency

ALL PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA COUNTY OF ALAMEDA

On 11/27/01 (date) before me JANICE L. GRANT, NOTARY PUBLIC (Name, Title of Officer) personally appeared DAVID A. BYRON personally known to me, OR ___ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument freely and willingly.

JANICE L. GRANT
COMMISSION 1274512
NOTARY PUBLIC-CALIFORNIA
ALAMEDA COUNTY
My commission exps Sept 16, 2004

Janice L. Grant
Signature of Notary

Capacity claimed by signer(s): ___ Individual, X Corporate Officer, ___ Signature by Mark, Corporate Title, _____ ___ Partner(s), ___ Attorney-in-Fact, ___ Credible Witness(es), ___ Other, _____

The Signer is representing GETTLER-RYAN INC.
Names of person(s) or Entity(ies)

TO: Gettler – Ryan Inc.
ADDRESS: 6747 Sierra Ct., Suite J
Dublin, CA 94568
(APN: 039-3300-030-03)

RE: Minor Encroachment Permit for installation of two monitoring wells adjacent to 7225 Bancroft Avenue.

CONDITIONS FOR GRANTING A MINOR ENCROACHMENT PERMIT

1. That this permit shall be revocable at the pleasure of the Director of Building Services.

2. That the permittee, by the acceptance, either expressed or implied, of the minor encroachment permit hereby disclaims any right, title, or interest in or to any portion of the public street area, and agrees that said temporary use of said area does not constitute an abandonment on the part of the City of Oakland of any of its rights for street purposes and otherwise.

3. The permittee shall maintain in force and effect at all times that said encroachment occupies said public area, good and sufficient public liability insurance in the amount of $300,000 for each occurrence, and property damage insurance in the amount of $50,000 for each occurrence, both including contractual liability, insuring the City of Oakland, its officers and employees against any and all claims arising out of the existence of said encroachment in said sidewalk area, as respects liabilities assumed under this permit, and that a certificate of such insurance and subsequent notices of the renewal thereof, shall be filed with the Director of Building Services of the City of Oakland, and that such certificate shall state that said insurance coverage shall not be canceled or be permitted to lapse without thirty (30) days written notice to said Director of Building Services. The permittee also agrees that the City may review the type and amount of insurance required of the permittee every five (5) years and may require the permittee to increase the amount of and/or change the type of insurance coverage required.

4. That the permittee, by the acceptance, either expressed or implied, of this revocable permit shall be solely and fully responsible for the repair or replacement of any portion or all of said improvements in the event that said improvements shall have failed or have been damaged to the extent of creating a menace or of becoming a hazard to the safety of the general public; and that the permittee shall be liable for the expenses connected therewith.

5. That the permittee is aware that the proposed work is out of the ordinary and does not comply with City standard installations. Permittee is also aware that the City has to conduct work in the public right-of-way, which may include, but may not be limited to, excavation, trenching, and relocation of its facilities, all of which may damage encroachments. Permittee is further aware that the City takes no responsibility for repair or replacement of encroachments, which are damaged by the City or its contractors. That the permittee, by the acceptance, either expressed or implied, of the encroachment permit hereby agrees that upon receipt of notification from the City, permittee shall immediately repair or replace within 30 days all damages to permittee's encroachments within the public right-of-way which are damaged by the City or its contractors in carrying out the City's work. Permittee agrees to employ interim measures required and approved by the City until repair or replacement work is completed.

6. That upon the termination of the permission herein granted, permittee shall immediately remove said encroachment from the street area, and any damage resulting therefrom shall be repaired to the satisfaction of the Director of Building Services.

7. That the permittee shall file with the City of Oakland for recordation a Minor Encroachment Permit and Agreement, and shall be bound by and comply with all the terms and conditions of said permit.

8. That said permittee shall obtain an excavation permit prior to construction and a separate excavation permit prior to the removal of the ground water monitoring wells.

9. That said permittee shall provide to the City of Oakland an AS BUILT plan showing the actual location of the monitoring wells and the results of all data collected from the monitoring wells.

10. That said permittee shall remove the monitoring wells and repair any damage to the street area in accordance with City standards two (2) years after construction or as soon as monitoring is complete.

11. That said permittee shall notify the Community & Economic Development Agency, Building Services Division after the monitoring wells are removed and the street area restored to initiate the procedure to rescind the minor encroachment permit.

12. That the monitoring well cover installed within the sidewalk area shall have a skid-proof surface.

13. That the ground water monitoring well casting and cover shall be iron and shall meet H-20 load rating. The cover shall be secured with a minimum of two stainless steel bolts. Bolts and cover shall be mounted flush with the surrounding surface. For sidewalk installations, a pre-cast concrete utility box and non-skid cover may be needed in conjunction with the bolted cast iron cover with City approval.

14. That the permittee acknowledges that the City makes no representations or warranties as to the conditions beneath said encroachment. By accepting this revocable permit, permittee agrees that it will use the encroachment area at its own risk, is responsible for the proper coordination of its activities with all other permittees, underground utilities, contractors, or workmen operating, within the encroachment area and for the safety of itself and any of its personnel in connection with its entry under this revocable permit.

15. The permittee acknowledges that the City is unaware of the existence of any hazardous substances beneath the encroachment area, and permittee hereby waives and fully releases and forever discharges the City and its officers, directors, employees, agents, servants, representatives, assigns and successors from any and all claims, demands, liabilities, damages, actions, causes of action, penalties, fines, liens, judgements, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs), whether direct or indirect, known or unknown, foreseen or unforeseen, that may arise out of or in any way connected with the physical condition or required remediation of the excavation area of any law or regulation applicable thereto, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. Sections 9601 et seq.), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. Section 466 et seq.), the Safe Drinking Water Act (14 U.S.C. Sections 1401, 1450), the Hazardous Waste Control Law (California Health and Safety Code Sections 25100 et seq.), the Porter-Cologne Water Quality Control Act (California Health and Safety Code Section 13000 et seq.), the Hazardous Substance Account Act (California Health and Safety Code Sections 253000 et seq.), and the Safe Drinking Water and Toxic Enforcement Act (California Health and Safety Code Section 25249.5 et seq.).

16. Permittee further acknowledges that it understands and agrees that it hereby expressly waives all rights and benefits which it now has or in the future may have, under and by virtue of the terms of California Civil Code Section 1542, which reads as follows: " A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR."

17. Permittee recognizes that by waiving the provisions of this section, permittee will not be able to make any claims for damages that may exist, and to which, if known, would materially affect its decision to agree to these encroachment terms and conditions, regardless of whether permittee's lack of knowledge is the result of ignorance, oversight, error, negligence, or any other cause.

18. (a) That the permittee, by the acceptance of this revocable permit, agrees and promises to indemnify, defend, and hold harmless the City of Oakland, its officers, agents, and employees, to the maximum extent permitted by law, from any and all claims, demands, liabilities damages, actions, causes of action, penalties, fines, liens, judgments, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs; collectively referred to as "claims", whether direct or indirect, known or unknown, foreseen or unforeseen, to the extent that such claims were either (1) caused by the permittee, its agents, employees, contractors or representatives, or, (2) in the case of environmental contamination, the claim is a result of environmental contamination that emanates or emanated from 7225 Bancroft Avenue, Oakland, California site, or was otherwise caused by the permittee, its agents, employees, contractors or representatives.

(b) That, if any contamination is discovered below or in the immediate vicinity of the encroachment, and the contaminants found are of the type used, housed, stored, processed or sold on or from 7225 Bancroft Avenue, Oakland, California site, such shall amount to a rebuttable presumption that the contamination below, or in the immediate vicinity of, the encroachment was caused by the permittee, its agents, employees, contractors or representatives.

(c) That the permittee shall comply with all applicable federal, state, county and local laws, rules, and regulations governing the installation, maintenance, operation and abatement of the encroachment.

19. That the permittee hereby does remise, release, and forever discharge, and agree to defend, indemnify, and save harmless, the City, its officers, agents and employees and each of them, from any and all actions, claims, and demands of whatsoever kind or nature, and any damage, loss or injury which may be sustained directly or by the undersigned and any other person or persons, and arising out of, or by reason of the occupation of said public property, and the future removal of the above-mentioned encroachment.

20. That the herein above conditions shall be binding upon the permittee and the successive owners and assigns thereof.

21. That said permittee shall provide to the City of Oakland a performance bond for the amount of $3,000 per monitoring well encroaching within the public right-of-way prior to the issuance of the encroachment permit. Said performance bond shall be returned to the permittee after the monitoring is complete and the monitoring well is removed and the street area is restored.

22. That said Minor Encroachment Permit and Agreement shall take effect when all the conditions hereinabove set forth shall have been complied with to the satisfaction of the Director of Building Services, and shall become null and void upon the failure of the permittee to comply with all conditions.

EXHIBIT 'A'

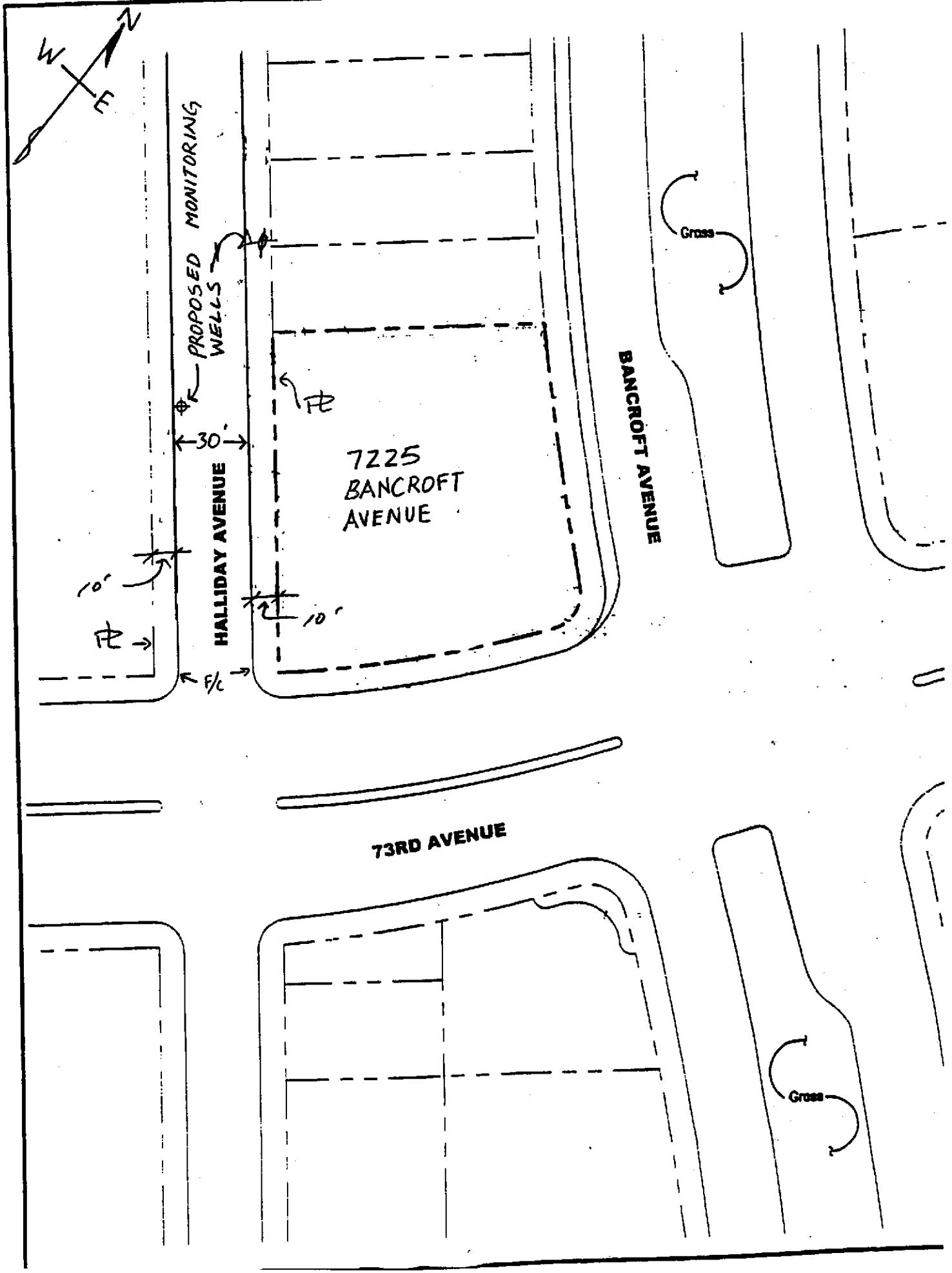

N
W
E
PROPOSED MONITORING WELLS
30'
HALLIDAY AVENUE
7225 BANCROFT AVENUE
BANCROFT AVENUE
10'
10'
F/L
Grass
73RD AVENUE
Grass

EXHIBIT 'B'

Chevron

Chevron Products Company
6001 Bollinger Canyon Rd. Bldg. V
P. O. Box 6004
San Ramon, CA 94583-0904

Site Assessment & Remediation
Phone (925) 842-9500
Fax (925) 842-8370

October 4, 2001

Mr. Calvin N. Wong
City of Oakland
Building Services Division
250 Frank H. Ogawa Plaza, Suite 23228
Oakland, CA 94612

Subject: **Encroachment Permit to install two off-site groundwater monitoring well for the Chevron Station No. 9-3322, 7225 Bancroft Avenue, Oakland, California**

Dear Mr. Wong:

The Alameda County Environmental Health Department (ACEHD) has approved a proposal from Chevron Products Company (Chevron) to install two groundwater monitoring wells along Halliday Avenue, north of 73rd Avenue near the subject site. This work is necessary to delineate the extent of dissolved petroleum hydrocarbons in groundwater northwest of the site.

The proposed locations of the new groundwater monitoring wells are in the public right-of-way and an encroachment permit issued by the City of Oakland is necessary in order to proceed with the work. Chevron has contracted Delta Environmental Consultants, Inc. network associate Getter-Ryan Inc. (GR) to complete this task, and authorizes GR to act on our behalf in conducting all business related to the completion of this task.

Chevron appreciates your co-operation in this matter. If you have any questions or concerns regarding this matter, please feel free to contact me at (925) 842-8898.

Thank you for your time,

Sincerely,
Chevron Products Company

Thomas K. Bauhs
Project Manager

MAJOR DIVISIONS				TYPICAL NAMES
COARSE-GRAINED SOILS (MORE THAN HALF IS COARSER THAN NO. 200 SIEVE)	GRAVELS (MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE)	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	Well graded gravels with or without sand, little or no fines
			GP	Poorly graded gravels with or without sand, little or no fines
		GRAVELS WITH OVER 15% FINES	GM	Silty gravels, silty gravels with sand
			GC	Clayey gravels, clayey gravels with sand
	SANDS (MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE)	CLEAN SANDS WITH LITTLE OR NO FINES	SW	Well graded sands with or without gravel, little or no fines
			SP	Poorly graded sands with or without gravel, little or no fines
		SANDS WITH OVER 15% FINES	SM	Silty sands with or without gravel
			SC	Clayey sands with or without gravel
FINE-GRAINED SOILS (MORE THAN HALF IS FINER THAN NO. 200 SIEVE)	SILTS AND CLAYS (LIQUID LIMIT 50% OR LESS)		ML	Inorganic silts and very fine sands, rock flour, silts with sands and gravels
			CL	Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays
			OL	Organic silts or clays of low plasticity
	SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50%)		MH	Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic silts or clays of medium to high plasticity
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils

PID	Volatile vapors in ppm
(2.5YR 6/2)	Soil color according to Munsell Soil Color Charts (1993 Edition)
BLOWS/FT.	Sample drive hammer weight – 140 pounds falling 30 inches. Blows required to drive sampler 1 foot are indicated on the logs.

———	Observed contact
– – – –	Inferred contact
▨	No soil sample recovered
■	"Undisturbed" sample
▽	First encountered groundwater level
▼	Static groundwater level

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

UNIFIED SOIL CLASSIFICATION
ASTM D 2488-85
AND
KEY TO SAMPLING DATA

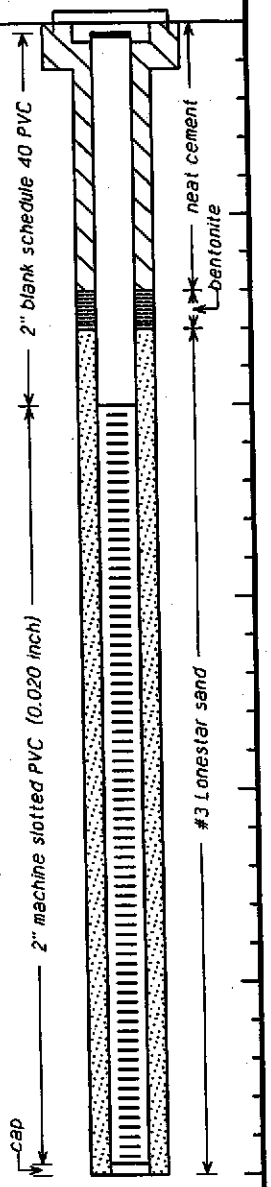
Gettler-Ryan, Inc.

Log of Boring MW-8

PROJECT: *Former Chevron Service Station No. 9-3322*	LOCATION: *7225 Bancroft Avenue, Oakland, California*
GR PROJECT NO. : *DG93322G.4CT1*	CASING ELEVATION: *37.21 ft. (MSL)*
DATE STARTED: *03/13/02*	WL (ft. bgs): DATE: TIME:
DATE FINISHED: *03/13/02*	WL (ft. bgs): *12.50* DATE: *03/13/02* TIME: *12:10*
DRILLING METHOD: *8 in. HSA – Limited Access Rig*	TOTAL DEPTH: *30 feet*
DRILLING COMPANY: *Gregg Drilling, Inc.*	GEOLOGIST: *Tony Mikacich*

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
5	–	MW-8-6.5	CL	CLAY WITH SAND (CL) – brown (10YR 5/3), moist; 80% clay, 20% fine sand, abundant iron oxidation, black organic matter.
10	–	MW-8-11.5		SANDY CLAY (CL) – brown (10YR 5/3), moist; 60% clay, 40% medium sand, trace fine gravels.
15	–	MW-8-16.5		CLAY WITH SAND (CL) – brown (10YR 5/3), moist; 80% clay, 20% fine sand, trace iron oxidation, trace gray nodules.
20	–	MW-8-21.5	GC	CLAYEY GRAVEL WITH SAND (GC) – brown (10YR 5/3), wet; 60% fine to medium gravel, 20% clay, 20% medium sand, faint hydrocarbon odor.
25	–	MW-8-26.5	SP	POORLY GRADED SAND (SP) – brown (10YR 5/3), wet; 90% fine to medium sand, 5% fine gravel, 5% silt.
30	–	MW-8-30	GC	CLAYEY GRAVEL WITH SAND (GC) – brown (10YR 5/3), wet; 60% fine to medium gravel, 20% clay, 20% medium sand, hydrocarbon odor.
				Color changes to light olive brown (2.5Y 5/6).
35				Bottom of boring at 30 feet bgs.

WELL DIAGRAM



JOB NUMBER: *DG93322G.4CT1*

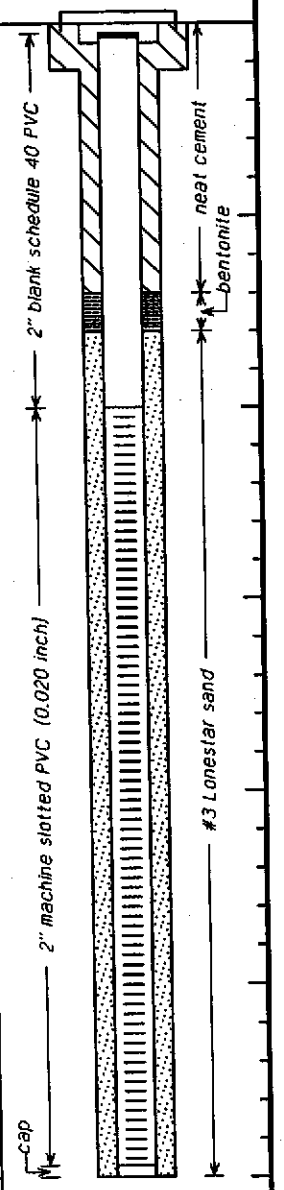
Gettler-Ryan, Inc.

Log of Boring MW-9

PROJECT: *Former Chevron Service Station No. 9-3322*	LOCATION: *7225 Bancroft Avenue, Oakland, California*
GR PROJECT NO.: *DG93322G.4CT1*	CASING ELEVATION: *35.03 ft. (MSL)*
DATE STARTED: *03/15/02*	WL (ft. bgs): DATE: TIME:
DATE FINISHED: *03/15/02*	WL (ft. bgs): *11.65* DATE: *03/15/02* TIME: *15:10*
DRILLING METHOD: *8 in. HSA – Limited Access Rig*	TOTAL DEPTH: *30 feet*
DRILLING COMPANY: *Gregg Drilling, Inc.*	GEOLOGIST: *Tony Mikacich*

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
0						Asphalt – 2 inches thick.
						Concrete – 6 inches thick.
					CL	CLAY WITH SAND (CL) – black (7.5YR 2/0), moist; 80% clay, 20% fine to medium sand.
5	2	MW-9-6.5				Color changes to brown (10YR 5/3).
10	14	MW-9-11.5				Includes trace fine gravels.
					SC	CLAYEY SAND (SC) – brown (10YR 5/3), very moist; 70% fine to medium sand, 30% clay, trace fine gravels.
15	6	MW-9-16.5				
20	8	MW-9-21.5				Color changes to light olive brown (2.5Y 5/6).
					GP-GC	POORLY GRADED GRAVEL WITH SAND AND CLAY (GP-GC) – olive brown (10YR 5/3), wet; 60% subrounded fine gravel, 30% medium sand, 10% clay.
25	6	MW-9-26.5				
30	12	MW-9-30				Bottom of boring at 30 feet bgs.
35						

WELL DIAGRAM



JOB NUMBER: *DG93322G.4CT1*

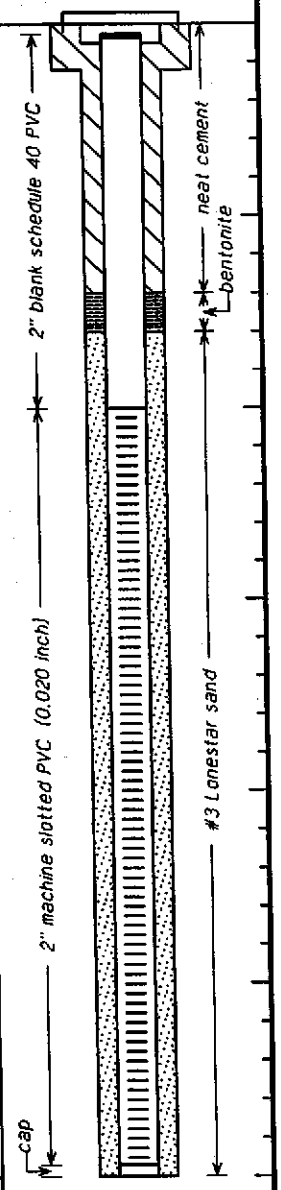
Gettler-Ryan, Inc.

Log of Boring MW-10

PROJECT: *Former Chevron Service Station No. 9-3322*	LOCATION: *7225 Bancroft Avenue, Oakland, California*
GR PROJECT NO. : *DG93322G.4CT1*	CASING ELEVATION: *35.53 ft. (MSL)*
DATE STARTED: *03/15/02*	WL (ft. bgs): DATE: TIME:
DATE FINISHED: *03/15/02*	WL (ft. bgs): *12.60* DATE: *03/15/02* TIME: *15:10*
DRILLING METHOD: *8 in. HSA – Limited Access Rig*	TOTAL DEPTH: *30 feet*
DRILLING COMPANY: *Gregg Drilling, Inc.*	GEOLOGIST: *Tony Mikacich*

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
					CL	Concrete – 3 inches thick. SANDY CLAY (CL) – dark brown (10YR 3/3), moist; 70% clay, 30% fine to medium sand, trace fine to medium gravels.
5	4	MW-10-6.5				Color changes to brown (10YR 5/3); includes trace iron oxidation.
10	8	MW-10-11.5			SC	CLAYEY SAND (SC) – light olive brown (2.5Y 5/4), moist; 60% fine to medium sand, 40% clay, trace fine gravels.
15	8	MW-10-16.5			CL	SANDY CLAY (CL) – light olive brown (2.5Y 5/4), wet; 70% clay, 30% fine to medium sand, trace fine gravels, trace iron oxidation, black organic matter.
20	12	MW-10-21.5			GC	CLAYEY GRAVEL WITH SAND (GC) – olive (5Y 5/3), wet; 50% subrounded fine gravel, 30% fine to medium sand, 20% clay.
25	11	MW-10-26.5			GP-GC	POORLY GRADED GRAVEL WITH SAND AND CLAY (GP-GC) – olive (5Y 5/3), wet; 50% subrounded fine gravel, 40% fine to medium sand, 10% clay.
30	28	MW-10-30				Bottom of boring at 30 feet bgs.
35						

WELL DIAGRAM



JOB NUMBER: *DG93322G.4CT1*

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name:	Chevron Products Company	Facility Name:	Chevron #9-3322
Address:	6001 Bollinger Canyon Road	Address:	7225 Bancroft Avenue
	San Ramon, CA 94583		Oakland, CA
Contact:	Bob Cochran	Facility Contact:	Tony Mikacich, Gettler-Ryan
Phone:	925-842-9500	Phone:	916-631-1300

IWM Job #:	92097-DW
Description of Waste:	1 Drum(s) of Non-Hazardous Water
Removal Date:	April 3, 2002
Ticket #:	MCK030402-CH

Transporter Information

Name:	IWM, Inc.
Address:	950 Ames Avenue
	Milpitas, CA 95035
Phone:	(408) 942-8955

Disposal Facility Information

Name:	McKittrick Waste Treatment
Address:	56533 Hwy 58 W
	McKittrick, CA 92351
Phone:	(661) 762-7366

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon William T. DeLon — 4/3/02

Authorized Representative (Print Name and Signature) — Date

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1699

CERTIFICATE OF DISPOSAL

Generator Name:	Chevron Products Company	Facility Name:	Chevron #9-3322
Address:	6001 Bollinger Canyon Road	Address:	7225 Bancroft Avenue
	San Ramon, CA 94583		Oakland, CA
Contact:	Bob Cochran	Facility Contact:	Tony Mikacich, Gettler-Ryan
Phone:	925-842-9500	Phone:	916-631-1300

IWM Job #:	92097-DS
Description of Waste:	6 Drum(s) of Non-Hazardous Soil
Removal Date:	April 3, 2002
Ticket #:	RSVRL030402

Transporter Information

Name:	IWM, Inc.
Address:	950 Ames Avenue
	Milpitas, CA 95035
Phone:	(408) 942-8955

Disposal Facility Information

Name:	Republic Services Vasco Road Landfill
Address:	4001 N. Vasco Road
	Livermore, CA 94550
Phone:	(925) 447-0491

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon William T. DeLon
Authorized Representative (Print Name and Signature)

4/3/02
Date

Client/ CHEVRON

Facility #9-3322 Job#: 386433

Address: 7225 BANCROFT AVE. Date: 4/1/02

City: OAKLAND, CA Sampler: TC

Well ID MW-8 Well Condition: O.K

Well Diameter 2" in.

Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 (gal.)

PRE-PURGE
Total Depth 29.75 ft.

Depth to Water 11.10 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

18.65 x VF .17 = 3.1 x 10 (case volume) = Estimated Purge Volume: 32.9 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; (Other: 2" steel Bailer)

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 1450 Weather Conditions: SUNNY

Sampling Time: 1610 Water Color: BROWN Odor: YES

Purging Flow Rate: 3.0 gpm. Sediment Description: VERY SILTY

Did well de-water? NO If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1500	3.0	8.16	1022	68.2			
1510	6.0	8.00	1166	67.1			
1515	9.0	7.91	1142	66.8			
NOW 1536	12.6	7.86	1118	66.7			
1537	15.0	7.56	1124	66.4			
1538	18.0	7.41	1148	65.2			
1546	21.0	7.32	1216	65.6			
1547	24.0	7.18	1222	65.8			
1549	27.0	7.24	1310	66.1			
1554	32.0	7.26	1296	66.0			
1600	50.0	7.20	1284	66.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	6 KUVETTES	Y	HCL	LANCASTER	

COMMENTS: WATER WAS VERY SILTY PURGED AN EXTRA 18 GAL TO HELP CLEAN UP.... WATER WAS LGT. BROWN W/ LGT SILT AFTER 50 GAL. TOTAL WELL DEPTH AFTER DEVELOPMENT = (29.82)

Client/CHEVRON
Facility #9-5322 Job#: 386433
Address: 7225 BANCROFT AVE. Date: 4/1/02
City: OAKLAND, CA. Sampler: TC

Well ID MW-9 Well Condition: O.K
Well Diameter 2" in. Hydrocarbon Thickness: 0 Ft. Amount Bailed (product/water): 0 (gal.)
Pre-Purge → Total Depth 29.69 ft.
Depth to Water 10.62 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

19.07 x VF .17 = 3.2 x10 (case volumes) = Estimated Purge Volume: 32.5 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; (Other: 2" steel Bailer)
Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 1305 Weather Conditions: Sunny
Sampling Time: 1420 Water Color: Brown Odor: yes
Purging Flow Rate: 3.0 gpm. Sediment Description: very silty
Did well de-water? no If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1310	3.0	8.10	1246	68.9			
1316	6.0	7.93	1121	68.0			
1324	9.0	87.24	1110	67.6			
TOP 1334	12.0	7.86	1064	67.0			
1335	15.0	7.71	1126	66.0			
1337	18.0	7.47	1134	66.4			
1343	21.0	7.32	1142	66.1			
1344	24.0	7.16	1156	65.6			
1346	27.0	7.02	1196	65.1			
1354	32.5	7.20	1210	64.9			
1410	48.5	7.16	1216	65.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 EVOA'S/BTEX	Y	HCL	LANCASTER	TPH-G/BTEX/MTBE
					(5) OXYS 8260

COMMENTS: WATER WAS very Silty PURGED AN EXTRA 16.0 Gal TO Help Clean-up well. WATER WAS LGT. BROWN w/ LGT. Silt AFTER Development TOTAL WELL DEPTH IS (29.81)

Client/ CHEVRON
Facility #9-3322 Job#: 386433
Address: 7225 BANCROFT AVE. Date: 4/8/02
City: OAKLAND, CA. Sampler: TC

Well ID MW-10 Well Condition: O.K
Well Diameter 2" in. Hydrocarbon Thickness: 0 Ft. Amount Bailed (product/water): 0 (gal.)
Total Depth 29.80 ft.
Depth to Water 11.72 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

18.08 x VF .17 = 3.0 x10 (case volume) = Estimated Purge Volume: 30.5 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, (Suction), Grundfos, (Other: 2" steel BAILER)
Sampling Equipment: (Disposable Bailer), Bailer, Pressure Bailer, Grab Sample, Other:

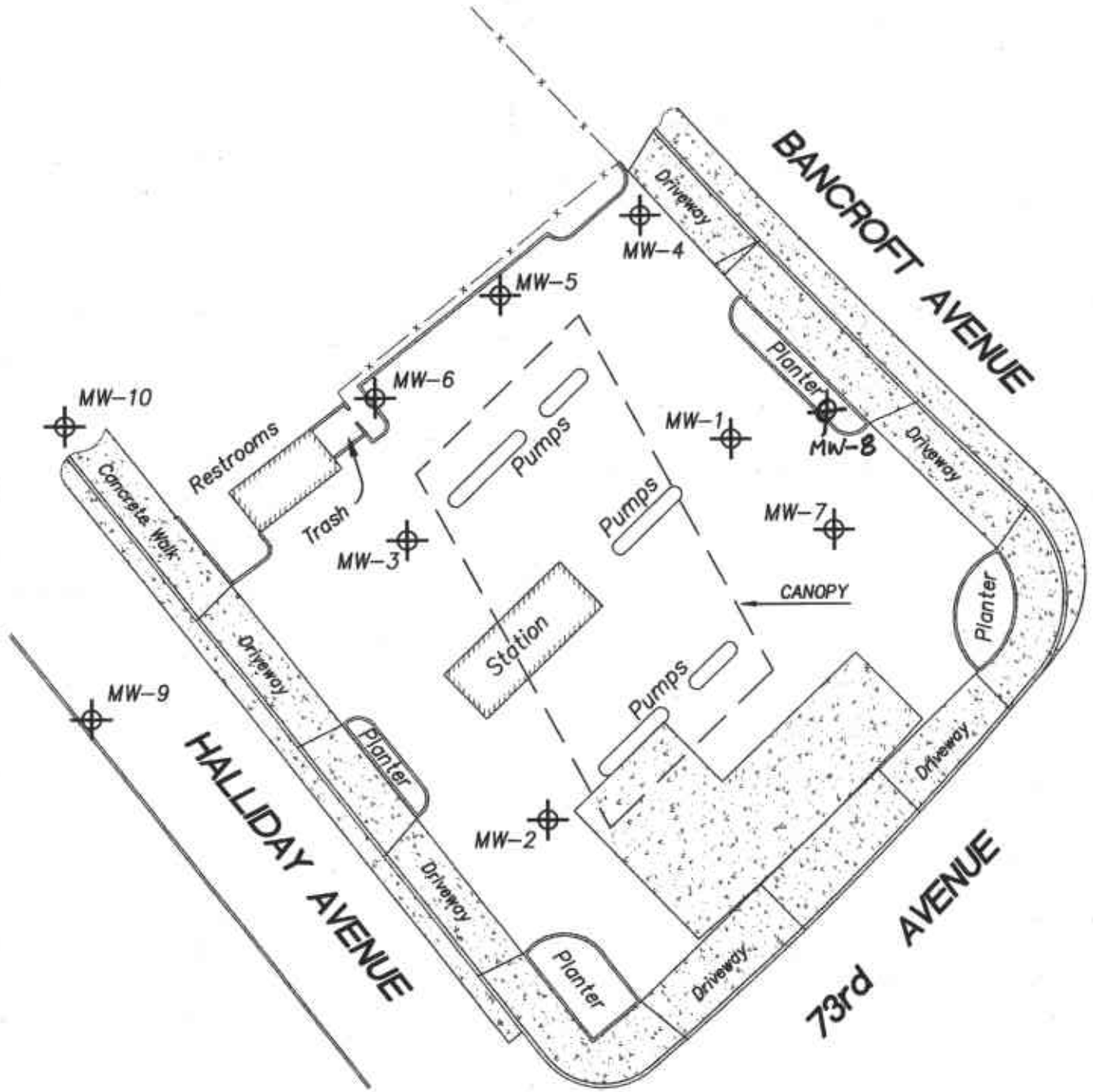
Starting Time: 1150 Weather Conditions: Sunny
Sampling Time: 1249 Water Color: BROWN Odor: NO
Purging Flow Rate: 3.0 gpm. Sediment Description: VERY SILTY
Did well de-water? NO If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1155	3.0	8.16	1268	67.9			
1200	6.0	8.22	11614	66.1			
1210	9.0	7.91	1122	66.4			
1222	12.0	7.63	1116	65.6			
1223	15.0	7.51	1023	65.8			
1225	18.0	7.80	1048	66.3			
1232	21.0	7.24	1064	66.8			
1233	24.0	7.22	1058	66.6			
1234	27.0	7.18	1112	66.0			
1238	30.5	7.28	1113	66.2			
1241	40.5	7.21	1126	66.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 VOA VIAL	Y	HCL	LANCASTER	TPH-G/BTEX/MTBE + (5) OXYS 8260

COMMENTS: WATER WAS VERY SILTY PURGE AN EXTRA 10.0 GAL. TO CLEAN UP WATER, WATER WAS LGT. BROWN W/ LGT SILT AFTER 40.5 GAL. TOTAL WELL DEPTH AFTER DEVELOPMENT IS 29.82



DESCRIPTION	NORTHING	EASTING	ELEV (PVC)	ELEV (BOX)
MW-1	2105687.4	6076778.4	37.40	37.79
MW-2	2105611.9	6076741.5	35.72	36.38
MW-3	2105667.5	6076714.0	36.53	36.92
MW-4	2105731.6	6076760.8	37.29	37.45
MW-5	2105716.0	6076732.9	37.40	37.68
MW-6	2105695.8	6076708.0	36.90	37.26
MW-7	2105669.3	6076798.6	36.84	37.14
MW-8	2105692.0	6076799.5	37.21	37.83
MW-9	2105632.2	6076651.8	35.03	35.32
MW-10	2105690.4	6076646.9	35.53	35.79

	LATITUDE	LONGITUDE
MW-1	37.7658942	-122.1775740
MW-2	37.7656850	-122.1776968
MW-3	37.7658364	-122.1777953
MW-4	37.7660148	-122.1776377
MW-5	37.7659704	-122.1777332
MW-6	37.7659137	-122.1778180
MW-7	37.7658454	-122.1775031
MW-8	37.7659080	-122.1775012
MW-9	37.7657363	-122.1780085
MW-10	37.7658960	-122.1780289

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.

COORDINATE DATUM IS NAD 83(1986).

DATUM ELLIPSOID IS GRS80.

REFERENCE GEOID IS NGS99.

CORS STATIONS USED WERE BRIB AND PBL1.

ELEVATIONS ARE BASED ON CITY OF OAKLAND BENCHMARK DESIGNATED 3787 IN FIELD BOOK 1595, PAGE 50. CUT SQUARE NORTHERLY CURB ON KRAUSE AVE., APPROX. 37' WESTERLY OF PL WESTERLY OF 73RD AVE. ELEVATION=33.82'

Monitoring Well Exhibit

Prepared for:

GETTLER - RYAN INC.

30 0 15 30

(IN FEET)
1 inch = 30 ft.

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

Morrow Surveying
1450 Harbor Blvd. Ste. D
West Sacramento
California 95691
(916) 372-8124
tom@morrowsurveying.com

Date: April, 2002
Scale: 1" = 30'
Sheet 1 of 1
Revised:
Field Book: MW-8
Dwg. No. 2480-023 SJP

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 800810. Samples arrived at the laboratory on Tuesday, March 19, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
MW-8-S-6.5-020313	Grab	Soil	3790730
MW-8-S-11.5-020313	Grab	Soil	3790731
MW-8-S-16.5-020313	Grab	Soil	3790732
MW-8-S-21.5-020313	Grab	Soil	3790733
MW-8-S-30-020313	Grab	Soil	3790734
MW-9-S-11.5-020315	Grab	Soil	3790735
MW-9-S-21.5-020315	Grab	Soil	3790736
MW-9-S-30-020315	Grab	Soil	3790737
MW-10-S-11.5-020315	Grab	Soil	3790738
MW-10-S-21.5-020315	Grab	Soil	3790739
MW-10-S-30-020315	Grab	Soil	3790740

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Gettler-Ryan, Inc. Attn: Tony Mikacich

Lancaster Laboratories
Where quality is a science.

Questions? Contact your Client Services Representative
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

Robert E. Mellinger
Sr. Chemist/Coordinator

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. SW 3790730

Collected:03/13/2002 09:19 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:46
Discard: 04/10/2002
MW-8-S-6.5-020313 Grab Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 12:09	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 12:09	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:02	Stephanie A Selis	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3790731

Collected:03/13/2002 09:23 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:46
Discard: 04/10/2002
MW-8-S-11.5-020313 Grab Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 12:47	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 12:47	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:03	Stephanie A Selis	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3790732

Collected:03/13/2002 10:00 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:46
Discard: 04/10/2002
MW-8-S-16.5-020313 Grab Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 13:24	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 13:24	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:04	Stephanie A Selis	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3790733

Collected:03/13/2002 10:22 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:47
Discard: 04/10/2002
MW-8-S-21.5-020313 Grab Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 14:02	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 14:02	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:05	Stephanie A Selis	n.a.

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717-656-2300 Fax: 717-656-2681

Analysis Report

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Lancaster Laboratories Sample No. SW 3790734

Collected:03/13/2002 10:36 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:47
Discard: 04/10/2002
MW-8-S-30-020313 Grab Soil

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San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	11.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	0.0062	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.060	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
	Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for the compound listed below. The presence or concentration of this compound cannot be determined due to the presence of this interferent. total xylenes					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

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Lancaster Laboratories Sample No. SW 3790734

Collected:03/13/2002 10:36 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:47
Discard: 04/10/2002
MW-8-S-30-020313 Grab Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-8

01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 14:39	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 14:39	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:06	Stephanie A Selis	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3790735

Collected:03/15/2002 12:46 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:47
Discard: 04/10/2002
MW-9-S-11.5-020315 Grab Soil

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Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322
7225 Bancroft-Oakland T0600102079 MW-9

GRRC

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 15:17	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 15:17	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:07	Stephanie A Selis	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3790736

Collected:03/15/2002 12:59 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:47
Discard: 04/10/2002
MW-9-S-21.5-020315 Grab Soil

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Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 15:54	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 15:54	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:08	Stephanie A Selis	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3790737

Collected:03/15/2002 13:12 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:47
Discard: 04/10/2002
MW-9-S-30-020315 Grab Soil

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San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 16:32	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 16:32	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:09	Stephanie A Selis	n.a.

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

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Lancaster Laboratories Sample No. SW 3790738

Collected:03/15/2002 09:12 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:47
Discard: 04/10/2002
MW-10-S-11.5-020315 Grab Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 17:09	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 17:09	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:10	Stephanie A Selis	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3790739

Collected:03/15/2002 09:28 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:47
Discard: 04/10/2002
MW-10-S-21.5-020315 Grab Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 22:41	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 22:41	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:11	Stephanie A Selis	n.a.

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Analysis Report

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Lancaster Laboratories Sample No. SW 3790740

Collected:03/15/2002 09:45 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 04/02/2002 at 14:47
Discard: 04/10/2002
MW-10-S-30-020315 Grab Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft-Oakland T0600102079 MW-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 19:00	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 19:00	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 04:12	Stephanie A Selis	n.a.

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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 800810
Reported: 04/02/02 at 02:47 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02077A31C	Sample number(s): 3790730-3790738							
TPH-GRO - Soils	N.D.	1.	mg/kg	78		75-117		
Benzene	N.D.	.005	mg/kg	104		84-132		
Toluene	N.D.	.005	mg/kg	104		88-116		
Ethylbenzene	N.D.	.005	mg/kg	103		87-127		
Total Xylenes	N.D.	.015	mg/kg	104		88-120		
MTBE	N.D.	.05	mg/kg	100		64-158		
Batch number: 02079A33A	Sample number(s): 3790739-3790740							
TPH-GRO - Soils	N.D.	1.	mg/kg	84		75-117		
Benzene	N.D.	.005	mg/kg	105		84-132		
Toluene	N.D.	.005	mg/kg	106		88-116		
Ethylbenzene	N.D.	.005	mg/kg	108		87-127		
Total Xylenes	N.D.	.015	mg/kg	106		88-120		
MTBE	N.D.	.05	mg/kg	92		64-158		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02077A31C	Sample number(s): 3790730-3790738								
TPH-GRO - Soils	60	63	44-116	6	30				
Benzene	107	113	56-142	5	30				
Toluene	83	87	66-120	4	30				
Ethylbenzene	89	93	66-131	4	30				
Total Xylenes	83	87	67-122	4	30				
MTBE	90	91	42-163	2	30				
Batch number: 02079A33A	Sample number(s): 3790739-3790740								
TPH-GRO - Soils	74	75	44-116	1	30				
Benzene	108	110	56-142	2	30				
Toluene	87	88	66-120	1	30				
Ethylbenzene	97	99	66-131	2	30				
Total Xylenes	89	92	67-122	3	30				
MTBE	136	139	42-163	2	30				

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils
Batch number: 02077A31C

	Trifluorotoluene-F	Trifluorotoluene-P
3790730	78	96
3790731	80	99

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Quality Control Summary

Client Name: Chevron Products Company
Group Number: 800810
Reported: 04/02/02 at 02:47 PM

Surrogate Quality Control

3790732	80	99
3790733	78	98
3790734	84	97
3790735	81	101
3790736	78	99
3790737	76	96
3790738	80	98
Blank	79	104
LCS	88	104
MS	77	90
MSD	79	93
Limits:	61-127	68-122

Analysis Name: TPH-GRO - Soils
Batch number: 02079A33A

	Trifluorotoluene-F	Trifluorotoluene-P
3790739	97	102
3790740	89	98
Blank	99	105
LCS	104	111
MS	96	98
MSD	99	103
Limits:	61-127	68-122

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 10990 Sample #: 379073O-40 3790701 SCR#:

PIAZ

Facility #: 9-3322
Site Address: 7225 BANCROFT AVE., OAKLAND
Chevron PM: TOM BAUHS Lead Consultant: DELTA/GR
Consultant/Office: GETTLER-RYAN INC./RANCHO CORDOVA
Consultant Prj. Mgr.: TONY MIKACICH
Consultant Phone #: (916)631-1300 Fax #: 631-1317
Sampler: TONY MIKACICH
Service Order #: D693322G.3C01 ☐ Non SAR:

Matrix: ☐ Potable ☐ NPDES; Soil, Water, ☐ Oil ☐ Air

Analyses Requested / Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	
MW-8-6.5	03/13/02	9:19	X		X				1	X	X					
MW-8-11.5		9:23	X		X				1	X	X					
MW-8-16.5		10:00	X		X				1	X	X					
MW-8-21.5		10:22	X		X				1	X	X					
MW-8-26.5		10:30	X		X				1							Hold
MW-8-30		10:36	X		X				1	X	X					
MW-9-6.5	03/15/02	12:40	X		X											Hold
MW-9-11.5		12:46								X	X					
MW-9-16.5		12:53														Hold
MW-9-21.5		12:59								X	X					
MW-9-26.5		1:05														Hold
MW-9-30		1:12								X	X					
MW-10-6.5		9:07														Hold

Comments / Remarks
GLOBAL ID# T0600102079

Turnaround Time Requested (TAT) (please circle)
STD. TAT 24 hour 48 hour
72 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time
Relinquished by: TONY MIKACICH	03/18/02	3:00
Relinquished by:		
Relinquished by:		

Relinquished by Commercial Carrier:
UPS FedEx Other

Temperature Upon Receipt 3 C°

	Date	Time
Received by:		
Received by:		
Received by:		
Received by: UPS	3/19/02	0915

Custody Seals Intact? Yes No

3460 Rev. 7/30/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
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Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only

Acct. #: 10982 Sample #: 3770730-710 / 3770701 SCR#: P2of2

Facility #: 9-3322

Site Address: 7225 BANCROFT AVE., OAKLAND, CA.

Chevron PM: Tom Bauhs Lead Consultant: Delta/GR

Consultant/Office: Gettler-Ryan Inc./Rancho Cordova

Consultant Prj. Mgr.: TONY MIKACICH

Consultant Phone #: (916)631-1300 Fax #: (916)631-1317

Sampler: TONY MIKACICH

Service Order #: D6933226.3C01 ☐ Non SAR: ______

Analyses Requested

Preservative Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (☐ Potable ☐ NPDES)	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☑	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐ 6010B ☑					Comments / Remarks
MW-10-11.5	03/15/02	9:12	X		X			1	X	X									Global ID # T0600102079
MW-10-16.5	↓	9:21	|		|			|							Hold			
MW-10-21.5	↓	9:28	|		|			|	X	X								
MW-10-26.5	↓	9:37	|		|			|							Hold			
MW-10-30	↓	9:45	|		|			|	X	X	~~X~~								
SP-1-4	↓	1:30		X	X			4	X	X				X					→ (4:1) Composite/48hr. TAT

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 24 hour (48 hour) on (SP-1-4)
72 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
Tony Mikacich	03/18/02	3:00	~~(struck through)~~		
~~(struck through)~~					
~~(struck through)~~					
Relinquished by Commercial Carrier: UPS (FedEx) Other ______			[signature]	3/19/02	0915
Temperature Upon Receipt 3 C°			Custody Seals Intact? (Yes) No		

3460 Rev. 7/30/01

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ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 800804. Samples arrived at the laboratory on Tuesday, March 19, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description		Lancaster Labs Number
SP-1-4-S-020315	Composite Soil	3790701

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Gettler-Ryan, Inc. Attn: Tony Mikacich

Questions? Contact your Client Services Representative
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

Steve Stabinger
Group Leader

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. SW 3790701

Collected:03/15/2002 13:30 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 03/22/2002 at 16:31
Discard: 03/30/2002
SP-1-4-S-020315 Composite Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft - Oakland T0600102079 SP1-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01655	Lead	7439-92-1	5.2	0.81	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01655	Lead	SW-846 6010B	1	03/21/2002 21:16	Lesley A Bensinger	1
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/20/2002 11:31	Steven A Skiles	25
02160	BTEX/MTBE	SW-846 8021B	1	03/20/2002 11:31	Steven A Skiles	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/20/2002 05:36	Stephanie A Selis	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	03/21/2002 05:45	Liana C Jones	1

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. SW 3790701

Collected:03/15/2002 13:30 by TM

Account Number: 10992

Submitted: 03/19/2002 09:15
Reported: 03/22/2002 at 16:31
Discard: 03/30/2002
SP-1-4-S-020315 Composite Soil

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 GRRC
7225 Bancroft - Oakland T0600102079 SP1-4

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Quality Control Summary

Client Name: Chevron Products Company
Group Number: 800804
Reported: 03/22/02 at 04:31 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02077A31C	Sample number(s): 3790701							
TPH-GRO - Soils	N.D.	1.	mg/kg	78		75-117		
Benzene	N.D.	.005	mg/kg	104		84-132		
Toluene	N.D.	.005	mg/kg	104		88-116		
Ethylbenzene	N.D.	.005	mg/kg	103		87-127		
Total Xylenes	N.D.	.015	mg/kg	104		88-120		
MTBE	N.D.	.05	mg/kg	100		64-158		
Batch number: 020805708001	Sample number(s): 3790701							
Lead	N.D.	.82	mg/kg	99		86-109		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02077A31C	Sample number(s): 3790701								
TPH-GRO - Soils	60	63	44-116	6	30				
Benzene	107	113	56-142	5	30				
Toluene	83	87	66-120	4	30				
Ethylbenzene	89	93	66-131	4	30				
Total Xylenes	83	87	67-122	4	30				
MTBE	90	91	42-163	2	30				
Batch number: 020805708001	Sample number(s): 3790701								
Lead	96	97	75-125	0	20	5.2	5.5	5 (1)	20

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils
Batch number: 02077A31C

	Trifluorotoluene-F	Trifluorotoluene-P
3790701	77	94
Blank	79	104
LCS	88	104
MS	77	90
MSD	79	93
Limits:	61-127	68-122

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
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For Lancaster Laboratories use only
Acct. #: 10982 Sample #: 377073054O 3770701 SCR#:

Facility #: 9-3322
Site Address: 7225 Bancroft Ave., Oakland, CA.
Chevron PM: Tom Bauhs Lead Consultant: Delta/GR
Consultant/Office: Gettler-Ryan Inc./Rancho Cordova
Consultant Prj. Mgr.: Tony Mikacich
Consultant Phone #: (916)631-1300 Fax #: (916)631-1317
Sampler: Tony Mikacich
Service Order #: DG93322G.3C01 ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Potable ☐ NPDES ☐ Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup ☐	8260 full scan	Oxygenates —	Lead 7420 ☐ 7421 ☐ 6010B	
MW-10-11.5	03/15/02	9:12	X		X			1	X	X					
MW-10-16.5		9:21													Hold
MW-10-21.5		9:28							X	X					
MW-10-26.5		9:37													Hold
MW-10-30		9:45							X	X	X				
SP-1-4		1:30		X	X			4	X	X				X	

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
Global ID #
T0600102079

(4:1) Composite/48hr. TAT

Turnaround Time Requested (TAT) (please circle)
STD. TAT 24 hour 48 hour ow(SP-1-4)
72 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
Tony Mikacich	03/18/02	3:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	3/19/02	0915
Temperature Upon Receipt 3 C°			Custody Seals Intact? Yes No		

3460 Rev. 7/30/01

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Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Lancaster Laboratories
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ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 802499. Samples arrived at the laboratory on Wednesday, April 03, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
QA-T-020401	NA	Water	3798523
MW-8-W-020401	Grab	Water	3798524
MW-9-W-020401	Grab	Water	3798525
MW-10-W-020401	Grab	Water	3798526

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Delta C/O Gettler-Ryan Attn: Deanna L. Harding

Lancaster Laboratories
Where quality is a science.

Questions? Contact your Client Services Representative
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

Steven A. Skiles
Sr. Chemist

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3798523

Collected:04/01/2002 00:00

Account Number: 10905

Submitted: 04/03/2002 09:10
Reported: 04/08/2002 at 14:39
Discard: 05/09/2002
QA-T-020401 NA Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 Job# 386433 GRD
7225 Bancroft-Oakland T0600102079 QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/04/2002 03:20	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/04/2002 03:20	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/04/2002 03:20	Anastasia Papadoplos	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3798524

Collected:04/01/2002 16:10 by TC

Account Number: 10905

Submitted: 04/03/2002 09:10
Reported: 04/08/2002 at 14:39
Discard: 05/09/2002
MW-8-W-020401 Grab Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 Job# 386433 GRD
7225 Bancroft-Oakland T0600102079 MW-8

M8402

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	1,200.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	8.6	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	2.5	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	2.5	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	N.D.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike.
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3798524

Collected:04/01/2002 16:10 by TC

Account Number: 10905

Submitted: 04/03/2002 09:10
Reported: 04/08/2002 at 14:39
Discard: 05/09/2002
MW-8-W-020401 Grab Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 Job# 386433 GRD
7225 Bancroft-Oakland T0600102079 MW-8

M8402

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/04/2002 09:10	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/04/2002 09:10	Anastasia Papadoplos	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/05/2002 00:55	Nicole S Albright	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/04/2002 09:10	Anastasia Papadoplos	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/05/2002 00:55	Nicole S Albright	n.a.

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Lancaster Laboratories Sample No. WW 3798525

Collected:04/01/2002 14:20 by TC

Account Number: 10905

Submitted: 04/03/2002 09:10
Reported: 04/08/2002 at 14:39
Discard: 05/09/2002
MW-9-W-020401 Grab Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 Job# 386433 GRD
7225 Bancroft-Oakland T0600102079 MW-9

M9402

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	94.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	1.5	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	25.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	19.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

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Lancaster Laboratories Sample No. WW 3798525

Collected:04/01/2002 14:20 by TC

Account Number: 10905

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Discard: 05/09/2002
MW-9-W-020401 Grab Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 Job# 386433 GRD
7225 Bancroft-Oakland T0600102079 MW-9

M9402

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/04/2002 09:45	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/04/2002 09:45	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/05/2002 01:22	Nicole S Albright	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/04/2002 09:45	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/05/2002 01:22	Nicole S Albright	n.a.

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Lancaster Laboratories Sample No. WW 3798526

Collected:04/01/2002 12:49 by TC

Account Number: 10905

Submitted: 04/03/2002 09:10
Reported: 04/08/2002 at 14:39
Discard: 05/09/2002
MW-10-W-020401 Grab Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 Job# 386433 GRD
7225 Bancroft-Oakland T0600102079 MW-10

10402

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	6.1	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	5.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1

State of California Lab Certification No. 2116

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Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3798526

Collected:04/01/2002 12:49 by TC

Account Number: 10905

Submitted: 04/03/2002 09:10
Reported: 04/08/2002 at 14:39
Discard: 05/09/2002
MW-10-W-020401 Grab Water

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

Facility# 93322 Job# 386433 GRD
7225 Bancroft-Oakland T0600102079 MW-10

10402

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/04/2002 10:20	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/04/2002 10:20	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/05/2002 01:48	Nicole S Albright	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/04/2002 10:20	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/05/2002 01:48	Nicole S Albright	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 802499
Reported: 04/08/02 at 02:39 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02093A51A	Sample number(s): 3798523-3798526							
Benzene	N.D.	0.5	ug/l	113	106	80-118	6	30
Toluene	N.D.	0.5	ug/l	112	106	82-119	6	30
Ethylbenzene	N.D.	0.5	ug/l	112	105	81-119	7	30
Total Xylenes	N.D.	1.5	ug/l	112	105	82-120	7	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	114	109	79-127	5	30
TPH-GRO - Waters	N.D.	50.	ug/l	92	89	76-126	3	30
Batch number: V020941AA	Sample number(s): 3798524-3798526							
Methyl t-butyl ether	N.D.	2.	ug/l	101		77-127		
di-Isopropyl ether	N.D.	2.	ug/l	99		74-125		
Ethyl t-butyl ether	N.D.	2.	ug/l	100		74-120		
t-Amyl methyl ether	N.D.	2.	ug/l	99		71-114		
t-Butyl alcohol	N.D.	100.	ug/l	104		59-139		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02093A51A	Sample number(s): 3798523-3798526								
Benzene	108		77-131						
Toluene	111		80-128						
Ethylbenzene	110		76-132						
Total Xylenes	109		76-132						
Methyl tert-Butyl Ether	110		61-144						
TPH-GRO - Waters	82		74-132						
Batch number: V020941AA	Sample number(s): 3798524-3798526								
Methyl t-butyl ether	104	103	69-134	1	30				
di-Isopropyl ether	101	100	68-133	2	30				
Ethyl t-butyl ether	102	101	73-123	1	30				
t-Amyl methyl ether	101	98	69-118	3	30				
t-Butyl alcohol	111	105	51-148	5	30				

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 02093A51A

	Trifluorotoluene-F	Trifluorotoluene-P
3798523	97	96
3798524	114	100
3798525	102	101
3798526	98	97

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 802499
Reported: 04/08/02 at 02:39 PM

Surrogate Quality Control

Blank	99	96
LCS	111	99
LCSD	110	98
MS	108	98
Limits:	67-135	71-130

Analysis Name: Oxygenates by 8260B
Batch number: V020941AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3798524	109	101	109	107
3798525	106	100	109	105
3798526	109	94	109	104
Blank	108	105	108	103
LCS	109	101	106	106
MS	108	101	108	109
MSD	108	101	109	109
Limits:	86-118	80-120	88-110	86-115

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 10905 — For Lancaster Laboratories use only — Sample #: 3798523-6 — SCR#:

020402-002

Facility #: 9-3322 Job# 386433 Global ID# T0600102079
Site Address: 7225 Bancroft Ave, Oakland, CA
Chevron PM: Thomas Bauhs Lead Consultant: Delta/G-R
Consultant/Office: G-R Inc, 6747 Sierra Ct, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding Deanna@grinc.com
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Tony Camarda
Service Order #: ____ ☐ Non SAR: ____

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy s on highest hit
☐ Run ____ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☒	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates 5 8260	Lead 7420 ☐ 7421 ☐
QA	4/1/02	—				X		2	X	X				
MW-8	↓	1610	X			X		6	X	X			X	
MW-9		1420	X			X		6	X	X			X	
MW-10	↓	1249	X			X		6	X	X			X	

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
STD. TAT — 72 hour — 48 hour
24 hour — 4 day — 5 day

Data Package Options (please circle if required)
QC Summary — Type I — Full
Type VI (Raw Data) — ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	4/1/02	1230	Received by:	4/1/02	1350
Relinquished by:	4/2/02	1350	Received by:	4-2-02	1350
Relinquished by:	4-2-02	1530	Received by: Airborne	4-2-02	
Relinquished by Commercial Carrier: UPS FedEx Other Airborne			Received by:		
Temperature Upon Receipt 2.5 C°			Custody Seals Intact? Yes No		

3460 Rev. 7/30/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.