

Disc w/c



GETTLER-RYAN INC.

TRANSMITTAL

MAY 23 2001

TO: Mr. Bob Cochran
Chevron Product Company
P.O. Box 6004
San Ramon, California 94583

DATE: May 16, 2001
PROJ. #: 346338.02
SUBJECT: Chevron #20-6142
333 23rd Avenue
Oakland, CA

FROM:
Stephen J. Carter, R.G. (916)-631-1314
Senior Geologist
Gettler-Ryan Inc.
3140 Gold Camp Drive, Suite 170
Rancho Cordova, California 95670

CO 0000 369

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	May 16, 2001	First Quarter 2001 Monitoring and Sampling Report

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit _ copies for approval
- As requested Approved as noted Submit _ copies for distribution
- For approval Return for corrections Return _ corrected prints
- For Your Files

COMMENTS:

At your request we have distributed this report as indicated below. Please call us at 916.631.1300 if you have questions.

cc: Mr. Barney Chan, Alameda County Department of Environmental Health, 1131 Harbor Bay Parkway, 2nd Floor, Alameda, CA 94502



GETTLER - RYAN INC.

CO 369

May 16, 2001

Mr. Bob Cochran
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

Subject: First Quarter 2001 Monitoring and Sampling Report for Chevron Station #20-6142, 333 23rd Avenue, Oakland, California.

Mr. Cochran:

This report presents the results of the first quarter 2001 monitoring and sampling event performed at the subject site on March 25, 2001. Copies of the field data sheets, laboratory reports and chain-of-custody documents are attached. Monitoring and analytical data have been summarized in the attached table.

Summary of Site First Quarter 2001 Conditions

On March 25, 2001, GR monitored and sampled eight wells (MW-1, MW-5, MW-7 through MW-11 and MW-14). Floating product was not identified in any of the wells. Depth-to-water in the wells was measured at 7.21 to 8.64 feet below top of well casing. Based on these data, groundwater flow beneath the site was predominantly to the southwest at a gradient of 0.07 ft/ft (Figure 1). These data are consistent with historical data. GR field data sheets are attached.

Total Petroleum Hydrocarbons as gasoline (TPHg) were detected in wells MW-1 (217 parts per billion, or ppb) and MW-8 (53.7 ppb). The laboratory noted that the compounds quantified as TPHg were unidentified hydrocarbons in the C6-C12 range. Methyl tert-butyl ether (MtBE) by EPA Method 8260 was detected only in well MW-5 (2.77 ppb). Total Petroleum Hydrocarbons as diesel with silica gel cleanup (TPHd) were detected in all wells except MW-5 at concentrations ranging from 69.1 to 4,630 ppb. The laboratory noted that compounds reported as TPHd were unidentified hydrocarbons in the C9-C24 range. Benzene, toluene, ethylbenzene, xylenes, TBA, DIPE, ETBE, TAME, 1,2-DCA or EDB were not detected in any of the wells during this event. Polynuclear aromatic hydrocarbons (PNAs) were not detected in wells MW-1, MW-5 or MW-8. These data are consistent with historical data. TPHg, benzene, MtBE and TPHd concentrations have been plotted on Figure 2. Copies of the laboratory report and chain-of-custody are attached.

- description
PNAs

Evaluation for Natural Attenuation

During the first quarter 2001 sampling event, additional analyses were performed to evaluate natural attenuation of the hydrocarbon plume. Natural attenuation appears to be the most likely mechanism to account for the observed decreasing trend in hydrocarbon concentrations at the site. As discussed in GR's

346338.02-3

First and Third Quarter 2000 Monitoring and Sampling Report (dated October 5, 2000), the dissolved plume beneath the subject site is stable and dissolved concentrations show a decreasing trend.

During the first quarter 2001, samples from all wells were analyzed for parameters indicative of biologic activity. Results of analyses for dissolved oxygen, oxidation-reduction potential, alkalinity, sulfate, nitrate, conductivity, and ferrous iron are similar to results from the third quarter 2000. These data continue to indicate that natural attenuation of the dissolved plume is acting to control plume configuration and inhibit plume migration.

Response to ACEHS Letter

In an October 24, 2000, letter to Chevron, Alameda County Environmental Health Services (ACEHS) requested some additional information be submitted prior to considering the site for closure. This information is discussed below in the order presented in the letter. A copy of the letter is attached.

1. *Copies of the well boring logs for all existing and previously installed wells.* Copies of boring logs and well construction details for wells MW-1 through MW-7, MW-9 through MW-14, and RW-2 are attached. Details regarding construction of tank backfill wells A and B are not available. Chevron files inspected by GR did not contain boring logs or well construction details for wells MW-8 or RW-1.
2. *Utility survey for the site.* Subsurface utility data were obtained from the City of Oakland, Pacific Gas and Electric, and RMC Lonestar. This information has been compiled on the Potentiometric and Concentration Maps (Figures 2 and 3). Flow line elevations and flow directions for the sewer and storm drain system are included. Pipe diameter and approximate burial depth, where available, have also been included.
3. *Analysis of wells MW-1, MW-5 and MW-8 for PNAs (polynuclear aromatics).* Wells MW-1, MW-5 and MW-8 were analyzed for PNAs during the first quarter 2001. PNAs were not detected in these wells. This information is included in the attached tables. Copies of the laboratory report are attached.
4. *All wells with oxygen-releasing compound socks in them should have the socks removed, be allowed to equilibrate and purged prior to sampling and chemical analysis.* There has not been any oxygen-releasing compound (ORC) socks in the wells since before the first quarter 2000 sampling event. ~~There has been at least three sampling events (March 2000, July 2000, and March 2001) and as a result of the removal of the ORC socks.~~ These wells have had sufficient time to equilibrate since ORC removal, and the wells were purged during each of the sampling events.

Discussion

Groundwater flow during the first quarter 2001 was to the south-southwest, consistent with historical monitoring data. The dissolved hydrocarbon plume continues to be defined. Benzene was not detected in any of wells, and MTBE was detected only in one well (upgradient well MW-5) at a concentration slightly above the laboratory reporting limit. The higher concentrations of hydrocarbons continue to be detected in the core of the plume, but the plume configuration appears to be stable and the dissolved plume does not

appear to be migrating. Natural attenuation appears to be responsible for preventing plume migration to the estuary. Data collected during the first quarter 2001 are consistent with historical monitoring and sampling data for the site.


As indicated on Figures 1 and 2, some of the subsurface utilities in the immediate site vicinity fall within the range of groundwater fluctuation. Reconnaissance of the site vicinity indicates there is a petroleum dispensing facility upgradient of the subject site (Golden Gate Petroleum). Based on the historical monitoring data for the subject site and burial depth data supplied with the subsurface utility maps, it appears unlikely the subsurface utilities in the immediate vicinity of the site are likely to greatly influence the distribution of dissolved hydrocarbons.

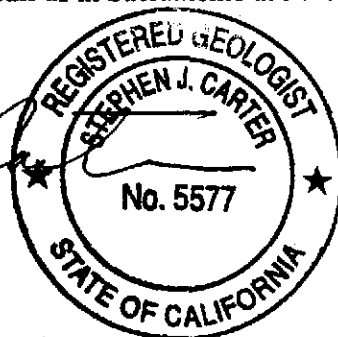
Recommendations

The hydrocarbon plume is delineated and appears stable. Dissolved hydrocarbon concentrations are decreasing. Natural attenuation appears to be responsible for the reduction in dissolved concentrations and for the stability of the dissolved plume. Additional work at this site is not warranted. GR recommends that ACEHS close the site, and that semi-annual monitoring and sampling be suspended pending ACEHS's decision.

If you have questions, please call us in Sacramento at 916.631.1300.

Sincerely,
Gettler-Ryan Inc.


Stephen J. Carter
Senior Geologist
R.G. 5577




Greg A. Gurss
Senior Project Manager

Attachments: Alameda County Environmental Health Services letter dated October 24, 2000
Figure 1. Potentiometric Map
Figure 2. Concentration Map
Cumulative Table of Well Data and Analytical Results
GR Field Methods and Procedures
Field Data Sheets
Laboratory Report and Chain-of-Custody form
Boring Logs and Well Construction Details

cc: Mr. Barney Chan, Alameda County Environmental Health Services, 1131 Harbor Bay Parkway, Suite 250,
Alameda, CA 94503-6577

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

October 24, 2000
SLIC # 3633

RECEIVED

OCT 20 2000

Mr. Bob Cochran
Chevron Products Co.
P.O. Box 6004
San Ramon, CA 94583

GETTLER-RYAN INC.

348338.02

Re: Former Chevron Station #20-6142, 333 23rd Ave., Oakland CA 94606
(Lonestar Facility)

GENERAL CONTRACTOR

Dear Mr. Cochran:

Our office has received and reviewed the September 26, 2000 First and Third Quarters Monitoring reports for the above referenced site prepared by Gettler-Ryan Inc., your consultant. As you are aware, your consultant recommends that the site be considered for closure. Before we can do this please provide the following:

- Copies of the well boring logs for all existing and previously installed wells.
- Utility survey for the site
- The analysis of wells MW-1, MW-5 and MW-8 for PNAs (polynuclear aromatics)
- All wells with oxygen-releasing compound socks in them should have the socks removed, be allowed to equilibrate and purged prior to sampling and chemical analysis.
- Please provide a check for \$1500.00 payable to Alameda County Environmental Health to cover past and future oversight costs. Your current balance is approximately -\$1000.00. Please indicate project # 4520 and the site address on your check. Note, our office did not receive the \$1000.00 from my earlier request (7/11/00).

Our office will be consulting with the SFRWQCB on this site to seek their concurrence in site status.

You may contact me at (510) 567-6765 if you have any questions.

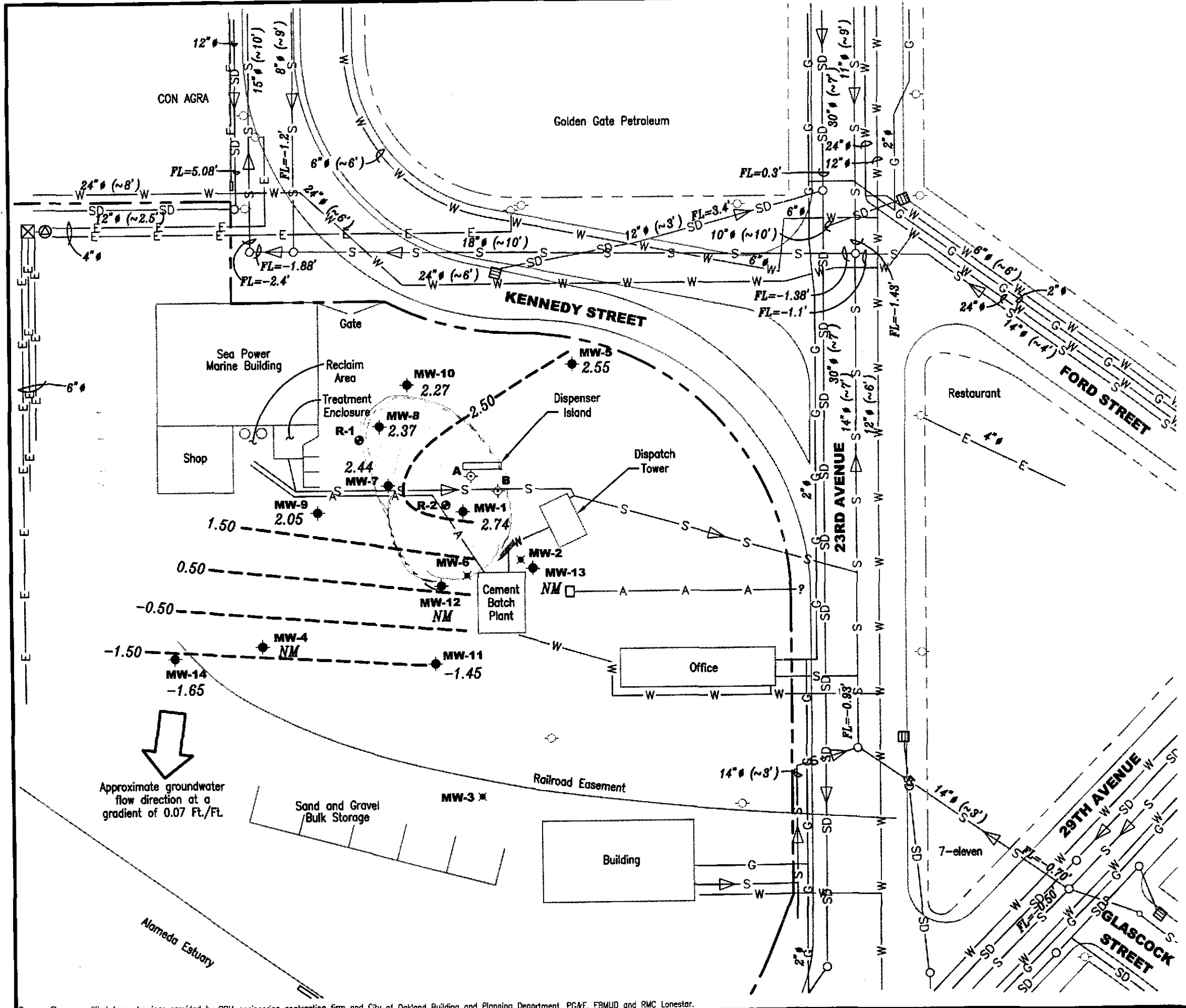
Sincerely,

Handwritten signature of Barney M. Chan in cursive.

Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, file

Mr. S. Carter, Gettler-Ryan, 6747 Sierra Ct., Suite J, Dublin CA 94568
2-333 23rd Ave.



EXPLANATION

- Groundwater monitoring well
- Groundwater recovery well
- ⊙ Tank backfill monitoring well
- × Abandoned well
- ▤ Storm drain
- ▣ PG&E vault
- Power pole
- Manhole
- ▽ Flow direction
- 8" Pipe diameter
- (~6') Approximate pipe depth
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 Groundwater elevation contour, dashed where inferred.
- NM Not Monitored

UNDERGROUND UTILITIES

- S— Sanitary sewer
- SD— Storm drain
- W— Water
- G— Natural gas
- E— Electric
- A— Abandoned utility trench

FIGURE 1

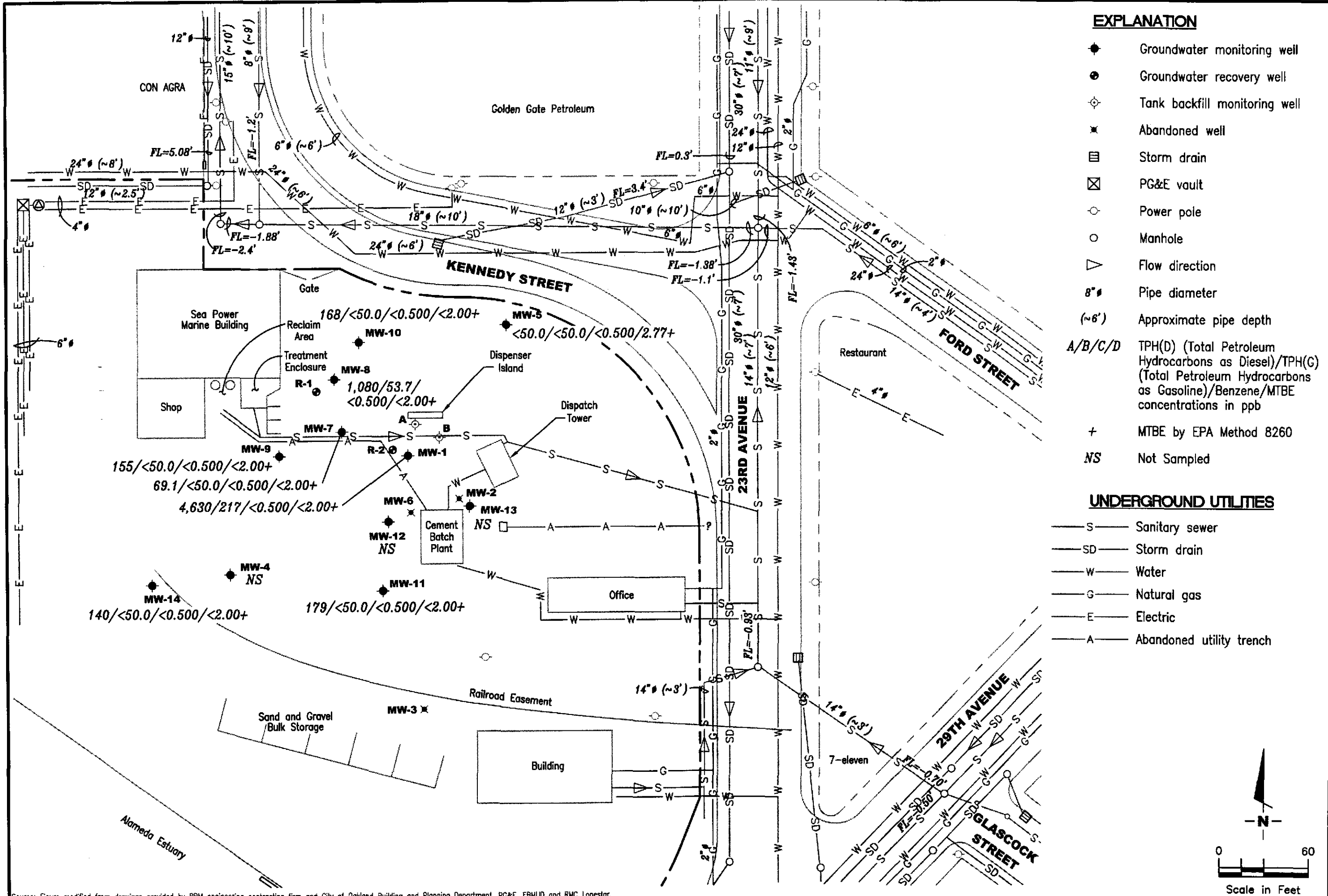
POTENTIOMETRIC MAP
 Chevron/RMC Lonestar Facility CPS #20-6142
 333 23rd Avenue
 Oakland, California

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

DATE: March 25, 2001
 REVISED DATE:

PROJECT NUMBER: 346338
 FILE NAME: P:\ENVRO\CHEVRON\20-6142\A00-20-6142.DWG | Layout Tab: Site Summary 5-01

Source: Figure modified from drawings provided by RRM engineering contracting firm and City of Oakland Building and Planning Department, PG&E, EBMUD and RMC Lonestar.

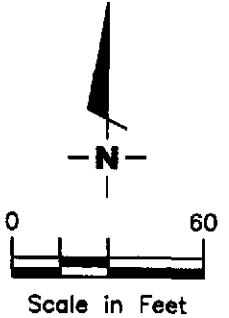


EXPLANATION

- ◆ Groundwater monitoring well
- Groundwater recovery well
- ⊙ Tank backfill monitoring well
- ✕ Abandoned well
- ▤ Storm drain
- ⊠ PG&E vault
- Power pole
- Manhole
- ▽ Flow direction
- 8" Pipe diameter
- (~6') Approximate pipe depth
- A/B/C/D TPH(D) (Total Petroleum Hydrocarbons as Diesel)/TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
- + MTBE by EPA Method 8260
- NS Not Sampled

UNDERGROUND UTILITIES

- S— Sanitary sewer
- SD— Storm drain
- W— Water
- G— Natural gas
- E— Electric
- A— Abandoned utility trench



CONCENTRATION MAP
 Chevron/RMC Lonestar Facility CPS #20-6142
 333 23rd Avenue
 Oakland, California

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

PROJECT NUMBER
 346338

DATE
 March 25, 2001

FILE NAME: P:\ENVIRO\CHEVRON\20-6142\00-20-6142.DWG | Layout Tab: Con 3-01

Source: Figure modified from drawings provided by RRM engineering contracting firm and City of Oakland Building and Planning Department, PG&E, EBMUD and RMC Lonestar.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE (8020/8260)	TPH-Diesel
MW-1											
12/21/1990	4.70	-3.41	9.77	Free Product (2.07')	--	--	--	--	--	--	--
12/18/1993	4.70	-3.73	8.45	Free Product (0.03')	--	--	--	--	--	--	--
3/29/1994	4.70	-3.94	9.00	Free Product (0.45')	--	--	--	--	--	--	--
6/9/1994	4.70	--	--	--	--	--	--	--	--	--	--
10/4/1994	4.70	-3.98	8.71	Free Product (0.04')	--	--	--	--	--	--	--
12/20/1994	4.70	-3.14	8.38	Free Product (0.67')	--	--	--	--	--	--	--
3/28/1995	4.70	-2.69	7.79	Free Product (0.5')	--	--	--	--	--	--	--
6/30/1995	4.70	--	--	--	--	--	--	--	--	--	--
9/24/1995	4.70	-2.69	7.79	Free Product (0.5')	--	--	--	--	--	--	--
12/29/1995	4.70	--	--	Inaccessible	--	--	--	--	--	--	--
3/24/1996	4.70	-2.97	7.68	Free Product (0.01')/ORCs installed	1400*	<0.5	<0.5	<0.5	<0.5	--	59,000
6/16/1996	4.70	-3.16	7.86	--	<500	<5.0	<5.0	<5.0	<5.0	--	99,000
12/8/1996	4.70	-3.68	8.38	--	280*	<0.5	<0.5	<0.5	<0.5	<5.0	6700
12/8/1996	4.70	-3.68	8.38	Silica gel cleanup	--	--	--	--	--	--	5100
6/30/1997	10.16	1.51	8.65	--	200*	<0.5	<0.5	<0.5	<0.5	<2.5	950**
6/30/1997	10.16	1.51	8.65	1st Silica gel/2nd Silica gel cleanup	--	--	--	--	--	--	600**/600**
10/16/1997	10.16	3.80	6.36	ORCs reinstalled	--	--	--	--	--	--	--
12/28/1997	10.16	2.66	7.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	4700**
6/21/1998	10.16	2.28	7.88	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1300**
12/30/1998	10.16	1.63	8.53	Silica gel cleanup	<50	<0.5	0.51	<0.5	<0.5	<2.5	230*
6/24/1999	10.16	0.14	10.02	++	11,400*	<50	<50	<50	<50	<2500	4,950,000**
12/22/1999	10.16	1.61	8.55	++	5130	<10	<10	<10	<10	<50	7490**
3/7/2000	10.16	3.03	7.13	++, silica gel cleanup	772***	<0.500	<0.500	<0.500	<0.500	<2.50/1.16	74,000**
7/11/2000	10.16	1.99	8.17	++, silica gel cleanup	93*	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0	190*
3/25/2001	10.16	2.74	7.42	++, silica gel cleanup	217*	<0.500	<0.500	<0.500	<0.500	<5.00/<2.00	4630*
<i>Range 7-8.5'</i>											
MW-2											
6/15/1989	--	--	--	--	<200	<0.5	<0.5	<0.5	<0.5	--	--
12/1/1992	--	--	--	Abandoned	--	--	--	--	--	--	--

* Chromatogram pattern indicates an unidentified hydrocarbon.

** Chromatogram pattern indicates weathered diesel.

*** Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the requested fuel. More closely resembles a heavier fuel.

++ See Table of Additional Analyses.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE (8020/8260)	TPH- Diesel
MW-4											
5/28/1987	--	--	--	--	--	<0.5	<0.5	<0.5	<0.2	--	<5.0
6/15/1989	--	--	--	--	<100	<0.2	<2.0	<2.0	<2.0	--	<0.2
12/21/1990	--	--	7.31	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/19/1993	--	--	6.64	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50
6/16/1993	--	--	8.01	--	210	32	27	2.8	19	--	<50
12/18/1993	--	--	7.35	--	79	0.5	1.2	0.5	1.1	--	100
3/29/1994	--	--	8.05	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
6/9/1994	--	--	8.14	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
10/4/1994	--	--	7.31	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
12/20/1994	--	--	7.03	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/28/1995	--	--	6.83	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
6/30/1995	--	--	7.84	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
9/24/1995	--	--	7.67	--	<50	<0.5	<0.5	<0.5	<0.5	--	110
12/29/1995	--	--	--	Unable to locate	--	--	--	--	--	--	--
3/24/1996	--	--	7.41	--	<50	<0.5	<0.5	<0.5	<0.5	--	95
6/16/1996	--	--	--	Unable to locate	--	--	--	--	--	--	--
12/8/1996	--	--	--	Unable to locate	--	--	--	--	--	--	--
12/30/1998	--	--	--	Inaccessible	--	--	--	--	--	--	--
6/24/1999	--	--	--	Inaccessible	--	--	--	--	--	--	--
12/22/1999	--	--	--	Inaccessible	--	--	--	--	--	--	--
3/7/2000	--	--	--	Inaccessible	--	--	--	--	--	--	--
7/11/2000	--	--	--	Inaccessible	--	--	--	--	--	--	--
3/25/2001	--	--	--	Inaccessible	--	--	--	--	--	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE (8020/8260)	TPH-Diesel
MW-5											
5/28/1987	--	--	--	--	--	<0.5	<0.5	<0.5	<2.0	--	<5.0
6/15/1989	--	--	--	--	<100	<0.2	<2.0	<2.0	<2.0	--	--
12/21/1990	5.43	-3.68	9.11	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
6/16/1993	5.43	-3.69	9.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
12/18/1993	5.43	-3.29	8.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	690
3/29/1994	5.43	-3.57	9.00	--	--	--	--	--	--	--	--
6/9/1994	5.43	-3.93	9.36	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
10/4/1994	5.43	--	--	--	--	--	--	--	--	--	--
12/20/1994	5.43	-2.67	8.10	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/28/1995	5.43	-2.78	8.21	--	--	--	--	--	--	--	--
6/30/1995	5.43	-3.35	8.78	--	<50	<0.5	<0.5	<0.5	<0.5	--	900
9/24/1995	5.43	-2.97	8.40	--	--	--	--	--	--	--	--
12/29/1995	5.43	-2.96	8.39	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/24/1996	5.43	--	--	--	--	--	--	--	--	--	--
6/16/1996	5.43	-3.15	8.58	--	<50	<0.5	<0.5	<0.5	<50	--	--
12/8/1996	11.11	--	--	No longer sampled	--	--	--	--	--	--	--
12/28/1997	11.11	2.74	8.37	--	--	--	--	--	--	--	--
6/21/1998	11.11	2.48	8.63	--	--	--	--	--	--	--	--
12/30/1998	11.11	--	--	Inaccessible	--	--	--	--	--	--	--
6/24/1999	11.11	--	--	Inaccessible	--	--	--	--	--	--	--
12/22/1999	11.11	1.99	9.12	++	<50	<0.5	<0.5	<0.5	<0.5	49.8	<50
3/7/2000	11.11	3.02	8.09	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	35.2/43.8	<50.0
7/11/2000	11.11	2.02	9.09	++, silica gel cleanup	<50	<0.50	<0.50	<0.50	<0.50	24/22	7,200
3/25/2001	11.11	2.55	8.56	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00/2.77	<50.0

++ See Table of Additional Analyses.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TPH- Diesel
MW-7											
6/15/1989	--	--	--	--	<100	<0.2	<2.0	<2.0	<2.0	--	--
12/21/1990	4.51	-3.38	7.90	Free Product (0.01')	--	--	--	--	--	--	--
6/16/1993	4.51	-3.94	8.45	--	<50	<0.5	0.9	<0.5	<0.5	--	<50
12/18/1993	4.51	-3.50	8.01	--	<50	<0.5	<0.5	<0.5	<0.5	--	240
3/29/1994	4.51	-4.09	8.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
6/9/1994	4.51	-4.10	8.61	--	<50	<0.5	<0.5	<0.5	<0.5	--	130*
10/4/1994	4.51	-3.31	7.82	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
12/20/1994	4.51	-3.19	7.70	--	<50	<0.5	<0.5	<0.5	<0.5	--	140
3/28/1995	4.51	-3.16	7.67	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
6/30/1995	4.51	-3.82	8.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
9/24/1995	4.51	-3.65	8.16	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
12/29/1995	4.51	-3.00	7.51	--	<50	<0.5	<0.5	<0.5	<0.5	--	230*
3/24/1996	4.51	-3.17	7.69	Free Product (0.01')/ORCs installed	<50	<0.5	<0.5	<0.5	<0.5	--	81
6/16/1996	4.51	-5.86	10.37	--	<50	<0.5	<0.5	<0.5	<0.5	--	190
12/8/1996	10.15	--	--	No longer sampled	--	--	--	--	--	--	--
10/16/1997	10.15	2.16	7.99	ORCs reinstalled	--	--	--	--	--	--	--
12/28/1997	10.15	2.38	7.77	--	--	--	--	--	--	--	--
6/21/1998	10.15	2.18	7.97	--	--	--	--	--	--	--	--
12/30/1998	10.15	1.37	8.78	Silica gel cleanup	<50	<0.5	<0.5	<0.5	<0.5	<2.5	92*
6/24/1999	10.15	1.15	9.00	++	<50	<0.5	<0.5	<0.5	<0.5	<2.5	278*
12/22/1999	10.15	0.88	9.27	++	<50	<0.5	<0.5	<0.5	<0.5	<2.5	167**
3/7/2000	10.15	2.78	7.37	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<0.500	253***
7/11/2000	10.15	1.88	8.27	++, silica gel cleanup	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0	120*
3/25/2001	10.15	2.44	7.71	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00/<2.00	69.1*

* Chromatogram pattern indicates an unidentified hydrocarbon.

++ See Table of Additional Analyses.

*** Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE (8020/8260)	TPH-Diesel
MW-8											
12/21/1990	4.93	-3.59	8.53	Free Product (0.02')	--	--	--	--	--	--	--
12/18/1993	4.93	--	--	--	--	--	--	--	--	--	--
3/29/1994	4.93	-3.46	8.38	--	--	--	--	--	--	--	--
6/9/1994	4.93	--	--	--	--	--	--	--	--	--	--
12/20/1994	4.93	-2.66	7.58	--	<2500	120	100	<25	100	--	50,000
3/28/1995	4.93	-2.16	7.08	--	--	--	--	--	--	--	--
6/30/1995	4.93	-3.17	8.09	--	<50	<0.5	<0.5	<0.5	<0.5	--	14,000
9/24/1995	4.93	-3.53	8.45	--	--	--	--	--	--	--	--
12/29/1995	4.93	-2.55	7.47	--	520	<2.0	<2.0	<2.0	<2.0	--	25,000
3/24/1996	4.93	--	--	--	--	--	--	--	--	--	--
6/16/1996	4.93	-3.07	7.99	--	59*	<0.5	<0.5	<0.5	<0.5	--	9400
12/8/1996	4.93	-2.74	7.67	--	580*	<0.5	<0.5	<0.5	<0.5	<5.0	16,000
12/8/1996	4.93	-2.74	7.67	Silica gel cleanup	--	--	--	--	--	--	9300
6/30/1997	10.09	-1.56	11.65	--	1700*	<5.0	<5.0	<5.0	<5.0	<25	5300**
6/30/1997	10.09	-1.56	11.65	1st Silica gel/2nd Silica gel cleanup	--	--	--	--	--	--	3100**/3000**
10/16/1997	10.09	2.29	7.80	ORCs installed	--	--	--	--	--	--	--
12/28/1997	10.09	2.56	7.53	No Purge Sample	<50	<0.5	<0.5	<0.5	<0.5	<2.5	2700*
6/21/1998	10.09	2.03	8.06	--	57*	<0.5	0.52	<0.5	0.55	<2.5	3500**
12/30/1998	10.09	0.97	9.12	Silica gel cleanup	<50	<0.5	<0.5	<0.5	<0.5	<2.5	900**
6/24/1999	10.09	1.06	9.03	++	2150*	<5.0	<5.0	<5.0	<5.0	<25	35,200**
12/22/1999	10.09	1.04	9.05	++	3490	<2.0	<2.0	<2.0	<2.0	<10	2590**
3/7/2000	10.09	2.38	7.71	++, silica gel cleanup	682***	<0.500	<0.500	<0.500	<0.500	<2.50/<0.500	41,800**
7/11/2000	10.09	1.86	8.23	++, silica gel cleanup	490*	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0	4000
3/25/2001	10.09	2.37	7.72	++, silica gel cleanup	53.7*	<0.500	<0.500	<0.500	<0.500	<5.00/<2.00	1080*

* Chromatogram pattern indicates an unidentified hydrocarbon.

** Chromatogram pattern indicates weathered diesel.

*** Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the requested fuel. More closely resembles a heavier fuel.

++ See Table of Additional Analyses.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE (8020/8260)	TPH-Diesel
MW-9											
5/28/1987	--	--	--	--	--	<0.5	<0.5	<0.5	<2.0	--	<50
6/15/1989	--	--	--	--	<100	<0.2	<2.0	<2.0	<2.0	--	--
12/21/1990	--	--	7.86	Sheen	<50	<0.5	<0.5	<0.5	1.0	--	230
6/16/1993	4.42	-3.92	8.34	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50
12/18/1993	4.42	-3.49	7.91	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/29/1994	4.42	-3.43	7.85	--	--	--	--	--	--	--	--
6/9/1994	4.42	-4.27	8.69	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
10/4/1994	4.42	--	--	--	--	--	--	--	--	--	--
12/20/1994	4.42	-3.18	7.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/28/1995	4.42	-3.16	7.58	--	--	--	--	--	--	--	--
6/30/1995	4.42	-3.92	8.34	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
9/24/1995	4.42	-3.79	8.21	--	--	--	--	--	--	--	--
12/29/1995	4.42	-3.06	7.48	--	<50	<0.5	<0.5	<0.5	<0.5	--	600
3/24/1996	4.42	--	--	ORCs installed	--	--	--	--	--	--	--
6/16/1996	4.42	-3.83	8.25	--	<50	<0.5	<0.5	<0.5	<0.5	--	810
12/8/1996	10.13	--	--	No longer sampled	--	--	--	--	--	--	--
10/16/1997	10.13	1.61	8.52	ORCs reinstalled	--	--	--	--	--	--	--
12/28/1997	10.13	2.55	7.58	--	--	--	--	--	--	--	--
6/21/1998	10.13	2.06	8.07	--	--	--	--	--	--	--	--
12/30/1998	10.13	1.85	8.28	Silica gel cleanup	<50	<0.5	<0.5	<0.5	<0.5	<2.5	53*
6/24/1999	10.13	1.14	8.99	++	<50	<0.5	<0.5	<0.5	<0.5	<2.5	308*
12/22/1999	10.13	1.54	8.59	++	<50	<0.5	<0.5	<0.5	<0.5	<2.5	898*
3/7/2000	10.13	2.83	7.30	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<0.500	453**
7/11/2000	10.13	1.70	8.43	++, silica gel cleanup	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0	160*
3/25/2001	10.13	2.05	8.08	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00/<2.00	155*

* Chromatogram pattern indicates an unidentified hydrocarbon.

** Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

++ See Table of Additional Analyses.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE (8020/8260)	TPH-Diesel
MW-10											
6/15/1989	--	--	--	--	<100	<0.2	<2.0	<2.0	<2.0	--	--
12/21/1990	5.24	-3.68	8.92	--	<50	<0.5	<0.5	<0.5	<0.5	--	80
6/16/1993	5.24	-3.73	8.97	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
12/18/1993	5.24	-2.63	7.87	--	51*	<0.5	<0.5	<0.5	<0.5	--	12,000
3/29/1994	5.24	-3.96	9.20	--	--	--	--	--	--	--	--
6/9/1994	5.24	-4.07	9.31	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
10/4/1994	5.24	--	--	--	--	--	--	--	--	--	--
12/20/1994	5.24	-3.06	8.30	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/28/1995	5.24	-3.02	8.26	--	--	--	--	--	--	--	--
6/30/1995	5.24	-3.71	8.95	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
9/24/1995	5.24	-3.63	8.87	--	--	--	--	--	--	--	--
12/29/1995	5.24	-2.79	8.03	--	<50	<0.5	<0.5	<0.5	<0.5	--	1800*
3/24/1996	5.24	--	--	ORCs installed	--	--	--	--	--	--	--
6/16/1996	5.24	-3.53	8.77	--	<50	<0.5	<0.5	<0.5	<0.5	--	300
12/8/1996	10.91	--	--	No longer sampled	--	--	--	--	--	--	--
10/16/1997	10.91	2.31	8.60	ORCs reinstalled	--	--	--	--	--	--	--
12/28/1997	10.91	2.59	8.32	--	--	--	--	--	--	--	--
6/21/1998	10.91	2.18	8.73	--	--	--	--	--	--	--	--
12/30/1998	10.91	2.93	7.98	Silica gel cleanup	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50
6/24/1999	10.91	1.55	9.36	++	<50	<0.5	<0.5	<0.5	<0.5	<2.5	163*
12/22/1999	10.91	1.47	9.44	++	<50	<0.5	<0.5	<0.5	<0.5	<2.5	250*
3/7/2000	10.91	2.84	8.07	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<0.500	<50.0
7/11/2000	10.91	1.89	9.02	++, silica gel cleanup	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0	110*
3/25/2001	10.91	2.27	8.64	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00/<2.00	168*

* Chromatogram pattern indicates an unidentified hydrocarbon.

++ See Table of Additional Analyses.

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

Cumulative Table of Well Data and Analytical Results

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE (8020/8260)	TPH- Diesel
MW-11											
8/21/1987	--	--	--	--	--	<0.5	<0.5	<0.5	<2.0	--	<0.1
6/21/1989	--	--	--	--	<100	<0.2	<2.0	<2.0	<2.0	--	--
12/21/1990	--	--	8.59	Sheen	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/19/1993	4.37	-3.20	7.57	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50
6/16/1993	4.37	-4.47	8.84	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50
12/18/1993	4.37	-3.89	8.26	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/29/1994	4.37	-4.70	9.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
6/9/1994	4.37	-4.77	9.14	--	<50	<0.5	<0.5	<0.5	<0.5	--	150*
10/4/1994	4.37	-3.57	7.94	--	<50	<0.5	1.0	<0.5	<0.5	--	<50
12/20/1994	4.37	-3.31	7.68	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/28/1995	4.37	-2.53	6.90	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
6/30/1995	4.37	-4.44	8.81	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
9/24/1995	4.37	-4.43	8.80	--	<50	<0.5	<0.5	<0.5	<0.5	--	110
12/29/1995	4.37	-3.85	8.22	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/24/1996	4.37	-4.09	8.46	--	<50	<0.5	<0.5	<0.5	<0.5	--	80
6/16/1996	4.37	-4.37	8.74	--	<50	<0.5	<0.5	<0.5	<0.5	--	868
12/8/1996	4.37	-3.38	7.75	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<50
6/30/1997	6.71	-1.92	8.63	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	71**
6/30/1997	6.71	-1.92	8.63	Silica gel cleanup	--	--	--	--	--	--	<50
10/16/1997	6.71	--	--	Inaccessible	--	--	--	--	--	--	--
12/28/1997	6.71	-0.94	7.65	ORCs installed	<50	<0.5	<0.5	<0.5	<0.5	<2.5	82**
6/21/1998	6.71	-1.41	8.12	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	89*
12/30/1998	6.71	-2.54	9.25	Silica gel cleanup	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50
6/24/1999	6.71	-1.32	8.03	++	<50	<0.5	<0.5	<0.5	<0.5	<2.5	69*
12/22/1999	6.71	-2.42	9.13	++	<50	<0.5	<0.5	<0.5	<0.5	<2.5	72*
3/7/2000	6.71	-0.69	7.40	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<0.500	307***
7/11/2000	6.71	-1.91	8.62	++, silica gel cleanup	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0	100*
3/25/2001	6.71	-1.45	8.16	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00/<2.00	179*

* Chromatogram pattern indicates an unidentified hydrocarbon.

** Chromatogram pattern indicates weathered diesel.

*** Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

++ See Table of Additional Analyses.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TPH- Diesel
MW-12											
8/21/1987	--	--	--	--	--	<0.5	<0.5	<0.5	<2.0	--	<0.1
12/18/1993	--	--	--	--	--	--	--	--	--	--	--
3/29/1994	--	--	--	--	--	--	--	--	--	--	--
6/9/1994	--	--	--	Inaccessible	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TPH- Diesel
MW-13											
8/21/1987	--	--	--	--	--	<0.5	<0.5	<0.5	<2.0	--	<0.1
6/15/1989	--	--	--	--	<100	<0.2	<2.0	<2.0	<2.0	--	--
3/19/1993	4.73	-2.89	7.62	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50
6/16/1993	4.73	-3.83	8.56	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50
12/18/1993	4.73	-3.38	8.11	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/29/1994	4.73	-3.92	8.65	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
6/9/1994	4.73	-3.87	8.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
10/4/1994	4.73	-3.58	8.31	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
12/20/1994	4.73	-3.19	7.92	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/28/1995	4.73	-3.05	7.78	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
6/30/1995	4.73	--	--	--	--	--	--	--	--	--	--
9/24/1995	4.73	-3.61	8.34	--	<50	<0.5	<0.5	<0.5	<0.5	--	180
12/29/1995	4.73	--	--	Unable to locate	--	--	--	--	--	--	--
3/24/1996	4.73	-3.01	7.74	**	<50	<0.5	<0.5	<0.5	<0.5	--	<50
3/24/1996	4.73	-3.34	8.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	57*

NO LONGER MONITORED OR SAMPLED

* Chromatogram pattern indicates an unidentified hydrocarbon.

** Total Dissolved Solids by EPA 160.1 detected at 1600 ppb.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE (8020/8260)	TPH-Diesel
MW-14											
6/30/1997	5.56	-1.92	7.48	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	86**
6/30/1997	5.56	-1.92	7.48	--	--	--	--	--	--	--	<50
10/16/1997	5.56	-1.86	7.42	--	--	--	--	--	--	--	--
12/28/1997	5.56	-1.46	7.02	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	97**
6/21/1998	5.56	-1.47	7.03	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	65**
12/30/1998	5.56	--	--	Inaccessible	--	--	--	--	--	--	--
6/24/1999	5.56	--	--	Inaccessible	--	--	--	--	--	--	--
12/22/1999	5.56	-1.99	7.55	++	<50	<0.5	<0.5	<0.5	<0.5	<2.5	101**
3/7/2000	5.56	-0.91	6.47	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<0.500	254***
7/11/2000	5.56	-1.99	7.55	++, silica gel cleanup	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0	110*
3/25/2001	5.56	-1.65	7.21	++, silica gel cleanup	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00/<2.00	140*

* Chromatogram pattern indicates weathered diesel.

** Chromatogram pattern indicates an unidentified hydrocarbon.

*** Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

++ See Table of Additional Analyses.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE (8020/8260)	TPH- Diesel
TRIP BLANK											
3/19/1993	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
6/16/1993	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/18/1993	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
3/29/1994	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
6/9/1994	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/20/1994	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
3/28/1995	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
6/30/1995	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
9/24/1995	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/1995	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
3/24/1996	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
6/16/1996	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/8/1996	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
6/30/1997	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/28/1997	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
6/21/1998	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/30/1998	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
3/7/2000	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
7/11/2000	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
3/25/2001	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	--

Cumulative Table of Well Data and Analytical Results

TABLE OF ADDITIONAL ANALYSES

Analytical results are in parts per million (ppm) unless otherwise notes.

DATE	ORP (mV)	DO (mg/L)	Nitrate (NO ₃)	Notes	Sulfate (SO ₄)	Ferrous Iron	Phosphate	Ammonia	Alkalinity	PAH
MW-1										
11/9/1995	--	0.90	--	--	--	--	--	--	--	--
6/16/1996	--	1.34	>5.0	ORCs Installed	--	--	2.0	>10	--	--
12/8/1996	--	1.39	13.00	--	14	2.6	--	--	--	--
6/30/1997	-16.5	1.00	<1.0	--	10	5.6	--	--	--	--
10/16/1997	--	0.51	--	ORCs Reinstalled	--	--	--	--	--	--
12/28/1997	22.9	2.30	7.60	No Purge Sampling	7.3	1.7	--	--	--	--
6/21/1998	102	1.60	<1.0	--	7.1	0.35	--	--	570	--
6/24/1999	35	1.20	<1.0	--	3.64	9.2	--	--	560	--
12/22/1999	99	1.00	1.37	--	9.87	0.4	--	--	677	--
3/7/2000	67	4.04	<0.20	--	7.63	0.735	--	--	661	--
7/11/2000	84	3.93	<1.0	--	11	0.12	--	--	590	--
3/25/2001	101	3.85	<1.00	--	<5.00	0.137	--	--	194	ND*
MW-4										
11/9/1995	--	0.37	0.20	--	--	--	0	0.01	--	--
MW-5										
11/9/1995	--	0.85	0.10	--	--	--	1.5	0.1	--	--
6/16/1996	--	0.78	--	--	--	--	--	--	--	--
12/28/1997	--	5.24	--	--	--	--	--	--	--	--
6/21/1998	--	2.30	--	--	--	--	--	--	--	--
12/30/1998	--	--	--	Inaccessible	--	--	--	--	--	--
6/24/1999	--	--	--	Inaccessible	--	--	--	--	--	--
12/22/1999	116	1.60	7.65	--	294	<0.01	--	--	341	--
3/7/2000	193	3.42	7.38	--	263	<0.10	--	--	325	--
7/11/2000	214	3.76	41	--	250	0.063	--	--	370	--
3/25/2001	221	3.27	27.0	--	197	0.0155	--	--	468	ND*

* Laboratory report indicates none of the analytes detected by EPA Method 8100.

Cumulative Table of Well Data and Analytical Results

TABLE OF ADDITIONAL ANALYSES

Analytical results are in parts per million (ppm) unless otherwise notes.

DATE	ORP (mV)	DO (mg/L)	Nitrate (NO ₃)	Notes	Sulfate (SO ₄)	Ferrous Iron	Phosphate	Ammonia	Alkalinity	PAH
MW-7										
11/9/1995	--	0.42	--	--	--	--	--	--	--	--
6/16/1996	--	OR	>5.0	ORCs Installed	--	--	4.0	>10	--	--
10/16/1997	--	0.73	--	ORCs Reinstalled	--	--	--	--	--	--
12/28/1997	--	1.10	--	--	--	--	--	--	--	--
6/21/1998	--	0.58	--	--	--	--	--	--	--	--
12/30/1998	96	2.10	71	--	56	0.36	--	--	590	--
6/24/1999	30	1.10	220	--	56	<0.01	--	--	420	--
12/22/1999	107	0.80	46.8	--	53	<0.01	--	--	325	--
3/7/2000	144	6.61	20.7	--	63.4	0.143	--	--	490	--
7/11/2000	164	5.76	27	--	73	0.054	--	--	400	--
3/25/2001	183	4.97	17.5	--	84.6	<0.0100	--	--	488	--
MW-8										
11/9/1995	--	0.95	--	--	--	--	--	--	--	--
6/16/1996	--	0.29	0.00	--	--	--	0.6	0.6	--	--
12/8/1996	-35	0.51	<0.10	--	3.0	6.1	--	--	--	--
6/30/1997	-50.2	9.50	<1.0	--	17	0.22	--	--	--	--
10/16/1997	--	1.84	--	ORCs Installed	--	--	--	--	--	--
12/28/1997	41.6	3.08	<5.0	No Purge Sampling	5.3	0.25	--	--	--	--
6/21/1998	--	2.80	<1.0	--	11	0.66	--	--	--	--
12/30/1998	87	2.00	<1.0	--	7.7	0.27	--	--	980	--
6/24/1999	29	1.40	<1.0	--	18	13	--	--	650	--
12/22/1999	56	1.50	1.07	--	11.5	3.0	--	--	1980	--
3/7/2000	162	5.28	<0.40	--	3.92	0.712	--	--	664	--
7/11/2000	177	4.25	<1.0	--	<1.0	0.23	--	--	650	--
3/25/2001	120	3.18	<1.00	--	<5.00	0.278	--	--	426	ND*

* Laboratory report indicates none of the analytes detected by EPA Method 8100.

Cumulative Table of Well Data and Analytical Results

TABLE OF ADDITIONAL ANALYSES

Analytical results are in parts per million (ppm) unless otherwise notes.

DATE	ORP (mV)	DO (mg/L)	Nitrate (NO ₃)	Notes	Sulfate (SO ₄)	Ferrous Iron	Phosphate	Ammonia	Alkalinity	PAH
MW-9										
11/9/1995	--	0.58	--	--	--	--	--	--	--	--
6/16/1996	--	14.66	>5.0	ORCs Installed	--	--	>10	1.0	--	--
10/16/1997	--	3.49	--	ORCs Reinstalled	--	--	--	--	--	--
12/28/1997	--	6.95	--	--	--	--	--	--	--	--
6/21/1998	--	1.67	--	--	--	--	--	--	--	--
12/30/1998	121	1.40	8.40	--	16	0.14	--	--	560	--
6/24/1999	29	1.20	5.76	--	25	<0.01	--	--	510	--
12/22/1999	50	1.30	1.02	--	7.9	0.22	--	--	582	--
3/7/2000	194	5.34	<0.40	--	3.32	0.103	--	--	562	--
7/11/2000	246	5.59	<1.0	--	2.5	0.14	--	--	600	--
3/25/2001	212	5.18	<1.00	--	6.70	0.0239	--	--	335	--
MW-10										
11/9/1995	--	1.49	--	--	--	--	--	--	--	--
6/16/1996	--	3.30	1.00	ORCs Installed	--	--	6.0	>10	--	--
10/16/1997	--	8.06	--	ORCs Reinstalled	--	--	--	--	--	--
12/28/1997	--	>19.99	--	--	--	--	--	--	--	--
6/21/1998	--	18.57	--	--	--	--	--	--	--	--
12/30/1998	131	1.00	8.8	--	110	0.13	--	--	320	--
6/24/1999	11	1.20	9.16	--	110	<0.01	--	--	370	--
12/22/1999	133	1.20	3.13	--	123	0.086	--	--	947	--
3/7/2000	192	5.16	2.15	--	90	0.135	--	--	389	--
7/11/2000	268	5.72	4.0	--	45	0.06	--	--	190	--
3/25/2001	197	4.86	1.83	--	28.5	0.0163	--	--	277	--

Cumulative Table of Well Data and Analytical Results

TABLE OF ADDITIONAL ANALYSES

Analytical results are in parts per million (ppm) unless otherwise notes.

DATE	ORP (mV)	DO (mg/L)	Nitrate (NO ₃)	Notes	Sulfate (SO ₄)	Ferrous Iron	Phosphate	Ammonia	Alkalinity	PAH
MW-11										
11/9/1995	--	0.52	0.20	--	--	--	5.0	0.1	--	--
6/16/1996	--	0.25	--	--	--	--	--	--	--	--
12/8/1996	165	0.31	340	--	99	<0.010	--	--	--	--
6/30/1997	-25	2.99	350	--	140	0.015	--	--	--	--
10/16/1997	--	--	--	Inaccessible	--	--	--	--	--	--
12/28/1997	21.5	2.00	240	ORCs Installed	130	0.93	--	--	--	--
6/21/1998	--	0.50	190	--	190	0.022	--	--	--	--
12/30/1998	136	1.20	220	--	140	0.041	--	--	290	--
6/24/1999	31	1.40	180	--	140	<0.01	--	--	290	--
12/22/1999	128	1.20	77.3	--	124	0.35	--	--	343	--
3/7/2000	213	5.44	67.8	--	167	0.759	--	--	334	--
7/11/2000	235	5.93	300	--	160	0.090	--	--	310	--
3/25/2001	248	5.42	<1.00	--	30.1	0.0493	--	--	297	--
MW-13										
11/9/1995	--	--	--	Unable to locate	--	--	--	--	--	--
6/16/1996	--	0.52	0.10	--	--	--	0.4	0.2	--	--
MW-14										
6/30/1997	-31.2	4.56	<1.0	--	41	0.29	--	--	--	--
10/16/1997	--	0.85	--	--	--	--	--	--	--	--
12/28/1997	133	2.75	10	--	35	0.028	--	--	--	--
6/21/1998	--	1.00	28	--	44	0.15	--	--	--	--
6/24/1999	--	--	--	Inaccessible	--	--	--	--	--	--
12/22/1999	104	1.70	2.95	--	44.5	1.2	--	--	491	--
3/7/2000	199	5.92	3.18	--	40.2	0.127	--	--	172	--
7/11/2000	249	4.04	19	--	58	0.16	--	--	300	--
3/25/2001	228	5.05	<1.00	--	35.1	0.0196	--	--	303	--

Cumulative Table of Well Data and Analytical Results

TABLE OF ADDITIONAL ANALYSES

Analytical results are in parts per million (ppm) unless otherwise notes.

DATE	ORP (mV)	DO (mg/L)	Nitrate (NO ₃)	Notes	Sulfate (SO ₄)	Ferrous Iron	Phosphate	Ammonia	Alkalinity	PAH
R-2										
11/9/1995	--	0.44	0.60	--	--	--	0	0	--	
A										
11/9/1995	--	0.42	1.00	--	--	--	0	4.0	--	

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on December 30, 1998.

Earlier field data and analytical results were provided by Gettler-Ryan.

Elevations surveyed on 09/26/93 by Field Designs relative to City of Oakland Benchmark #3457 and corrected to Mean Sea Level (msl).

(Benchmark datum is 2.998 feet off of msl.)

Site surveyed by Virgil Chavez Land Surveying on 07/03/97. Top of casing elevation measured using the top of curb on the northerly side of 23rd Avenue, using the northeasterly top of rail (of railroad tracks running through site) as reference line. (Benchmark Elevation = 17.91 feet, msl).

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-Butyl Ether

ORP = Oxidation Reduction Potential

DO = Dissolved Oxygen

mV = Millivolts

OR = Over-range of instrument

Cumulative Table of Well Data and Analytical Results

TABLE OF ADDITIONAL ANALYSES

Analytical results are in parts per billion (ppm)

DATE	TBA	MTBE	DIPE	Notes	ETBE	TAME	1,2-DCA	EDB	Ethanol
MW-1									
3/7/2000	<20.0	1.16	<1.00		<1.00	<1.00	<0.500	<0.500	<100
7/11/2000	<100	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0
3/25/2001	<100	<2.00	<2.00		<2.00	<2.00	<2.00	<2.00	--
MW-5									
3/7/2000	<20.0	43.8	<1.00		<1.00	<1.00	<0.500	<0.500	<100
7/11/2000	<100	22	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0
3/25/2001	<100	2.77	<2.00		<2.00	<2.00	<2.00	<2.00	--
MW-7									
3/7/2000	<20.0	<0.500	<1.00		<1.00	<1.00	<0.500	<0.500	<100
7/11/2000	<100	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0
3/25/2001	<100	<2.00	<2.00		<2.00	<2.00	<2.00	<2.00	--
MW-8									
3/7/2000	<20.0	<0.500	<1.00		<1.00	<1.00	<0.500	<0.500	<100
7/11/2000	<100	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0
3/25/2001	<100	<2.00	<2.00		<2.00	<2.00	<2.00	<2.00	--
MW-9									
3/7/2000	<20.0	<0.500	<1.00		<1.00	<1.00	<0.500	<0.500	<100
7/11/2000	<100	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0
3/25/2001	<100	<2.00	<2.00		<2.00	<2.00	<2.00	<2.00	--
MW-10									
3/7/2000	<20.0	<0.500	<1.00		<1.00	<1.00	<0.500	<0.500	<100
7/11/2000	<100	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0
3/25/2001	<100	<2.00	<2.00		<2.00	<2.00	<2.00	<2.00	--
MW-11									
3/7/2000	<20.0	<0.500	<1.00		<1.00	<1.00	<0.500	<0.500	<100
7/11/2000	<100	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0
3/25/2001	<100	<2.00	<2.00		<2.00	<2.00	<2.00	<2.00	--
MW-14									
3/7/2000	<20.0	<0.500	<1.00		<1.00	<1.00	<0.500	<0.500	<100
7/11/2000	<100	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0
3/25/2001	<100	<2.00	<2.00		<2.00	<2.00	<2.00	<2.00	--

Cumulative Table of Well Data and Analytical Results

TABLE OF ADDITIONAL ANALYSES

Analytical results are in parts per billion (ppb)

DATE	TBA	MTBE	DIPE	Notes	ETBE	TAME	1,2-DCA	EDB	Ethanol
------	-----	------	------	-------	------	------	---------	-----	---------

ABBREVIATIONS:

TBA = tert-butyl alcohol

MTBE = methyl t-butyl ether

DIPE = di-diopropyl ether

ETBE = ethyl tert-butyl ether

TAME = tert-amyl methyl ether

1,2-DCA = 1,2-dichloroethane

EDB = ethylene dibromide

ppb = parts per billion

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Chevron 206142
 Address: 333 23rd Ave.
 City: Oakland, CA

Job#: 386338
 Date: 3-25-01
 Sampler: Joe

Well ID: MW-1
 Well Diameter: 4 in.
 Total Depth: 19.00 ft.
 Depth to Water: 7.42 ft.

Well Condition: O.K.
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 gal.

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

11.58 x VF 0.66 = 7.64 x 3 (case volume) = Estimated Purge Volume: 23 gal.

Purge Equipment: Disposable Bailer
 Bailer
 Stack Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 3:12
 Sampling Time: 3:50^{PM}
 Purging Flow Rate: 2.5 gpm
 Did well de-water? _____

Weather Conditions: cloudy
 Water Color: clear Odor: no odors
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^3$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>3:25</u>	<u>7.5</u>	<u>7.66</u>	<u>12.88</u>	<u>69.6</u>	<u>3.85</u>	<u>101</u>	
<u>3:28</u>	<u>15</u>	<u>7.51</u>	<u>12.90</u>	<u>70.1</u>			
<u>3:32</u>	<u>23</u>	<u>7.42</u>	<u>12.91</u>	<u>69.9</u>			
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2 vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>(S)oxy's 1,2DCA/EDB by 8260</u>
	<u>1 Amb</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>TPHD - w/Silica Gel</u>
	<u>1 plastic</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>Ferrous Iron, Nitrate, Sulfate,</u>
	<u>1 Amb.</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>PNA'S (alkalinity)</u>

COMMENTS: Well has slow recovery

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Chevron 206142 Job#: 386338
 Address: 333 23rd Ave. Date: 3-25-01
 City: Oakland, CA. Sampler: Joc

Well ID MW-5 Well Condition: O.K.
 Well Diameter 4 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 19.80 ft
 Depth to Water 8.56 ft

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

11.24 x VF 0.66 = 7.42 x 3 (case volume) = Estimated Purge Volume: 22 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 1:43 Weather Conditions: cloudy
 Sampling Time: 2:16 P.M. Water Color: clear Odor: some
 Purging Flow Rate: 2 gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:57</u>	<u>7.5</u>	<u>7.15</u>	<u>6.96</u>	<u>71.2</u>	<u>3.27</u>	<u>221</u>	
<u>2:00</u>	<u>15</u>	<u>7.18</u>	<u>6.70</u>	<u>70.2</u>			
<u>2:03</u>	<u>22</u>	<u>7.21</u>	<u>6.67</u>	<u>70.1</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2 Vol</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>(S)oxy's 1,2 DCA/EDB by 8260</u>
	<u>1 Amb</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>TPHD - w/Silica Gel</u>
	<u>1 plastic</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>Ferrous Iron, Nitrate, Sulphate,</u>
	<u>1 Amb</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>PNA'S Alkalinity.</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Chevron
 Facility # 206142
 Address: 333 23rd Ave.
 City: Oakland, CA.

Job#: 386338
 Date: 3-25-01
 Sampler: Joc

Well ID MW-7
 Well Diameter 4 in.
 Total Depth 18.80 ft
 Depth to Water 7.71 ft

Well Condition: O.K.
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

11.09 x VF 0.66 = 7.32 x 3 (case volume) = Estimated Purge Volume: 22 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 12:10
 Sampling Time: 12:36 PM
 Purging Flow Rate: 2 gpm
 Did well de-water? _____

Weather Conditions: cloudy
 Water Color: clear Odor: none
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm X	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:12	7	7.57	12.95	69.8	4.97	183	
12:15	14	7.50	12.96	70.4			
12:18	22	7.48	12.97	70.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 Vol A	Y	HCL	Seq.	TPHG, BTEX, MTBE
	2 Vol A	"	"	"	(S)oxy's 1,2DCA/EPB by 8260
	1 Amb	"	—	"	TPHD - W /Silica Gel
	1 plastic	"	—	"	Ferrous Iron, Nitrate, Sulfate, alkalinity

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Chevron
 Facility # 206142
 Address: 333 23rd Ave.
 City: Oakland, CA.

Job#: 386338
 Date: 3-25-01
 Sampler: SoC

Well ID MW-8
 Well Diameter 4 in
 Total Depth 15.70 ft
 Depth to Water 7.72 ft

Well Condition: O.K.
 Hydrocarbon Thickness: 0 in
 Amount Bailed (product/water): 0 (gal.)
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

7.98 x VF 0.66 = 5.27 x 3 (case volume) = Estimated Purge Volume: 16 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 2:30
 Sampling Time: 2:58 P.M.
 Purging Flow Rate: 1.0 gpm.
 Did well de-water? _____

Weather Conditions: cloudy
 Water Color: clear Odor: yes
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>2:40</u>	<u>5.5</u>	<u>7.68</u>	<u>12.96</u>	<u>70.2</u>	<u>3.18</u>	<u>120</u>	
<u>2:43</u>	<u>"</u>	<u>7.70</u>	<u>12.58</u>	<u>70.4</u>			
<u>2:45</u>	<u>16</u>	<u>7.69</u>	<u>12.55</u>	<u>70.5</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2 vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>(S) oxy's 1,2 DCA/EDB by 8260</u>
	<u>1 Amb</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>TPHD - w /Silica Gel</u>
	<u>1 plastic</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>Ferrous Iron, Nitrate, Sulfate,</u>
	<u>1 Amb</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>PNA'S Alkalinity.</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Chevron 206142
 Address: 333 23rd Ave.
 City: Oakland, CA.

Job#: 386338
 Date: 3-25-01
 Sampler: TOC

Well ID: MW-9
 Well Diameter: 4 in.
 Total Depth: 19.70 ft.
 Depth to Water: 8.08 ft.

Well Condition: O.K.
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

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

11.62 x VF 0.66 = 7.67 x 3 (case volume) = Estimated Purge Volume: 23 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
~~Stack~~
~~Suction~~
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 12:50
 Sampling Time: 1:33 P.M.
 Purging Flow Rate: 2.5 gpm.
 Did well de-water? _____

Weather Conditions: cloudy
 Water Color: clear Odor: none
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^3$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:05</u>	<u>7</u>	<u>7.77</u>	<u>12.63</u>	<u>70.2</u>	<u>5.18</u>	<u>212</u>	
<u>1:08</u>	<u>16</u>	<u>7.63</u>	<u>12.65</u>	<u>69.9</u>			
<u>1:12</u>	<u>23</u>	<u>7.58</u>	<u>12.62</u>	<u>70.4</u>			
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2 Vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>(S)oxy's, 1,2 DCA/EDB by 8260</u>
	<u>1 Amb</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>TPHD - w /Silica Gel</u>
	<u>1 plastic</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>Ferrous Iron, Nitrate, Sulfate, alkalinity.</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Chevron
 Facility # 206142
 Address: 333 23rd Ave.
 City: Oakland, CA.

Job#: 386338
 Date: 3-25-01
 Sampler: Joc

Well ID MW-10
 Well Diameter 4 in.
 Total Depth 18.50 ft
 Depth to Water 8.64 ft

Well Condition: O.K.
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

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

9.86 x VF 0.66 = 6.51 x 3 (case volume) = Estimated Purge Volume: 20 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
 Other: _____

Starting Time: 11:16
 Sampling Time: 11:50 AM
 Purging Flow Rate: 1.5 gpm
 Did well de-water? _____

Weather Conditions: cloudy
 Water Color: clear Odor: none
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:30</u>	<u>6.5</u>	<u>7.36</u>	<u>12.32</u>	<u>69.9</u>	<u>4.86</u>	<u>197</u>	
<u>11:32</u>	<u>14</u>	<u>7.46</u>	<u>12.18</u>	<u>70.5</u>			
<u>11:36</u>	<u>20</u>	<u>7.51</u>	<u>12.12</u>	<u>70.8</u>			
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2 Vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>(S) Oxy's 1,2 DCA/EDB by 8260</u>
	<u>1 Amb</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>TPHD - W /Silica Gel</u>
	<u>1 plastic</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>Ferrous Iron, Nitrate, Sulfate, alkalinity.</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Chevron 206142
 Address: 333 23rd Ave.
 City: Oakland, CA.

Job#: 386338
 Date: 3-25-01
 Sampler: TOC

Well ID MW-11
 Well Diameter 2 in.
 Total Depth 20.50 ft.
 Depth to Water 8.16 ft.

Well Condition: O.K.
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

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

12.34 x VF 0.17 = 2.10 x 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: _____

Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 10:30
 Sampling Time: 11:00 A.M.
 Purging Flow Rate: 1 gpm.
 Did well de-water? _____

Weather Conditions: cloudy
 Water Color: clear Odor: none
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:40</u>	<u>2</u>	<u>8.02</u>	<u>12.73</u>	<u>70.3</u>	<u>5.42</u>	<u>248</u>	
<u>10:41</u>	<u>4</u>	<u>7.75</u>	<u>12.67</u>	<u>71.0</u>			
<u>10:42</u>	<u>6.5</u>	<u>7.66</u>	<u>12.69</u>	<u>71.4</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2 Vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>(S) Oxy's 1,2 DCA/EDB by 8260</u>
	<u>1 Amb</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>TPHD - w/Silica Gel</u>
	<u>1 plastic</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>Ferrous Iron, Nitrate, Sulfate, alkalinity.</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Chevron 206142
 Address: 333 23rd Ave.
 City: Oakland, CA

Job#: 386338
 Date: 3-25-01
 Sampler: Joe

Well ID MW-14
 Well Diameter 2 in.
 Total Depth 20.00 ft.
 Depth to Water 7.21 ft.

Well Condition: O.K.
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

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

12.79 x VF 0.17 = 2.17 x 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 9:45
 Sampling Time: 10:15 AM
 Purging Flow Rate: 1 gpm
 Did well de-water? _____

Weather Conditions: cloudy
 Water Color: clear Odor: none
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm $\times 10^3$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:55	2.5	8.08	13.12	72.2	5.05	228	
9:56	5	7.86	13.14	73.0			
9:58	7	7.80	13.21	72.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-14	3 vol	Y	HCL	Seq.	TPHG, BTEX, MTBE
	2 vol A	"	"	"	(S) Oxy's 1,2 DCA/EDB by 8260
	1 Amb	"	—	"	TPHD - w/Silica Gel
	1 plastic	"	—	"	Ferrous Iron, Nitrate, Sulfate, alkalinity.

COMMENTS: _____



Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

April 11, 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Chevron(1) / L103153

Enclosed are the results of analyses for samples received by the laboratory on 03/26/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate Number 2360



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L103153-01	Water	03/25/01 00:00	03/26/01 07:15
MW-1	L103153-02	Water	03/26/01 15:50	03/26/01 07:15
MW-5	L103153-03	Water	03/26/01 14:16	03/26/01 07:15
MW-7	L103153-04	Water	03/26/01 12:36	03/26/01 07:15
MW-8	L103153-05	Water	03/26/01 14:58	03/26/01 07:15
MW-9	L103153-06	Water	03/26/01 13:33	03/26/01 07:15
MW-10	L103153-07	Water	03/26/01 11:50	03/26/01 07:15
MW-11	L103153-08	Water	03/26/01 11:00	03/26/01 07:15
MW-14	L103153-09	Water	03/26/01 10:15	03/26/01 07:15

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
 Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L103153-01) Water Sampled: 03/25/01 00:00 Received: 03/26/01 07:15									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040014	04/04/01	04/04/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.5 %	70-130		"	"	"	"	
MW-1 (L103153-02) Water Sampled: 03/26/01 15:50 Received: 03/26/01 07:15									
Purgeable Hydrocarbons as Gasoline	217	50.0	ug/l	1	1040019	04/05/01	04/05/01	DHS LUFT	P-03
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		114 %	70-130		"	"	"	"	
MW-5 (L103153-03) Water Sampled: 03/26/01 14:16 Received: 03/26/01 07:15									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040014	04/04/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.5 %	70-130		"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (L103153-04) Water Sampled: 03/26/01 12:36 Received: 03/26/01 07:15									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040014	04/04/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.7 %		70-130	"	"	"	"	
MW-8 (L103153-05) Water Sampled: 03/26/01 14:58 Received: 03/26/01 07:15									
Purgeable Hydrocarbons as Gasoline	53.7	50.0	ug/l	1	1040018	04/05/01	04/05/01	DHS LUFT	P-03
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		90.3 %		70-130	"	"	"	"	
MW-9 (L103153-06) Water Sampled: 03/26/01 13:33 Received: 03/26/01 07:15									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040014	04/04/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.4 %		70-130	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (L103153-07) Water Sampled: 03/26/01 11:50 Received: 03/26/01 07:15									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040018	04/05/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.4 %		70-130	"	"	"	"	
MW-11 (L103153-08) Water Sampled: 03/26/01 11:00 Received: 03/26/01 07:15									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040014	04/04/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.9 %		70-130	"	"	"	"	
MW-14 (L103153-09) Water Sampled: 03/26/01 10:15 Received: 03/26/01 07:15									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040018	04/05/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		84.1 %		70-130	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L103153-02) Water Sampled: 03/26/01 15:50 Received: 03/26/01 07:15									
1,2-Dibromoethane	ND	2.00	ug/l	1	1030091	03/27/01	03/27/01	EPA 8260B	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	76-114		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	88-110		"	"	"	"	
MW-5 (L103153-03) Water Sampled: 03/26/01 14:16 Received: 03/26/01 07:15									
1,2-Dibromoethane	ND	2.00	ug/l	1	1030093	03/28/01	03/28/01	EPA 8260B	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	2.77	2.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	76-114		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	88-110		"	"	"	"	
MW-7 (L103153-04) Water Sampled: 03/26/01 12:36 Received: 03/26/01 07:15									
1,2-Dibromoethane	ND	2.00	ug/l	1	1030091	03/27/01	03/27/01	EPA 8260B	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	76-114		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	88-110		"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (L103153-05) Water Sampled: 03/26/01 14:58 Received: 03/26/01 07:15									
1,2-Dibromoethane	ND	2.00	ug/l	1	1030091	03/27/01	03/27/01	EPA 8260B	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %		76-114	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %		88-110	"	"	"	"	
MW-9 (L103153-06) Water Sampled: 03/26/01 13:33 Received: 03/26/01 07:15									
1,2-Dibromoethane	ND	2.00	ug/l	1	1030091	03/27/01	03/27/01	EPA 8260B	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		78.2 %		76-114	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %		88-110	"	"	"	"	
MW-10 (L103153-07) Water Sampled: 03/26/01 11:50 Received: 03/26/01 07:15									
1,2-Dibromoethane	ND	2.00	ug/l	1	1030093	03/28/01	03/28/01	EPA 8260B	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %		76-114	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %		88-110	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
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Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (L103153-08) Water Sampled: 03/26/01 11:00 Received: 03/26/01 07:15									
1,2-Dibromoethane	ND	2.00	ug/l	1	1030091	03/27/01	03/27/01	EPA 8260B	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>		<i>76-114</i>	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>		<i>88-110</i>	"	"	"	"	

MW-14 (L103153-09) Water Sampled: 03/26/01 10:15 Received: 03/26/01 07:15									
1,2-Dibromoethane	ND	2.00	ug/l	1	1030107	03/30/01	03/30/01	EPA 8260B	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>98.4 %</i>		<i>76-114</i>	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>101 %</i>		<i>88-110</i>	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
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Reported:
 04/11/01 15:03

Total Metals by 200.7 ICP
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L103153-02) Water Sampled: 03/26/01 15:50 Received: 03/26/01 07:15									
Ferrous Iron	0.137	0.0100	mg/l	1	1D06021	04/06/01	04/06/01	EPA 200.7	
MW-5 (L103153-03) Water Sampled: 03/26/01 14:16 Received: 03/26/01 07:15									
Ferrous Iron	0.0155	0.0100	mg/l	1	1D06021	04/06/01	04/06/01	EPA 200.7	
MW-7 (L103153-04) Water Sampled: 03/26/01 12:36 Received: 03/26/01 07:15									
Ferrous Iron	ND	0.0100	mg/l	1	1D06021	04/06/01	04/06/01	EPA 200.7	
MW-8 (L103153-05) Water Sampled: 03/26/01 14:58 Received: 03/26/01 07:15									
Ferrous Iron	0.278	0.0100	mg/l	1	1D06021	04/06/01	04/06/01	EPA 200.7	
MW-9 (L103153-06) Water Sampled: 03/26/01 13:33 Received: 03/26/01 07:15									
Ferrous Iron	0.0239	0.0100	mg/l	1	1D06021	04/06/01	04/06/01	EPA 200.7	
MW-10 (L103153-07) Water Sampled: 03/26/01 11:50 Received: 03/26/01 07:15									
Ferrous Iron	0.0163	0.0100	mg/l	1	1D06021	04/06/01	04/06/01	EPA 200.7	
MW-11 (L103153-08) Water Sampled: 03/26/01 11:00 Received: 03/26/01 07:15									
Ferrous Iron	0.0493	0.0100	mg/l	1	1D06021	04/06/01	04/06/01	EPA 200.7	
MW-14 (L103153-09) Water Sampled: 03/26/01 10:15 Received: 03/26/01 07:15									
Ferrous Iron	0.0196	0.0100	mg/l	1	1D06021	04/06/01	04/06/01	EPA 200.7	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L103153-02) Water Sampled: 03/26/01 15:50 Received: 03/26/01 07:15									
Diesel Range Hydrocarbons	4630	100	ug/l	2	1D04030	04/04/01	04/06/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		103 %	40-140		"	"	"	"	
MW-5 (L103153-03) Water Sampled: 03/26/01 14:16 Received: 03/26/01 07:15									
Diesel Range Hydrocarbons	ND	50.0	ug/l	1	1D04030	04/04/01	04/06/01	DHS LUFT	
Surrogate: n-Pentacosane		92.2 %	40-140		"	"	"	"	
MW-7 (L103153-04) Water Sampled: 03/26/01 12:36 Received: 03/26/01 07:15									
Diesel Range Hydrocarbons	69.1	50.0	ug/l	1	1D06013	04/06/01	04/10/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		81.0 %	40-140		"	"	"	"	
MW-8 (L103153-05) Water Sampled: 03/26/01 14:58 Received: 03/26/01 07:15									
Diesel Range Hydrocarbons	1080	50.0	ug/l	1	1D06013	04/06/01	04/10/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		83.0 %	40-140		"	"	"	"	
MW-9 (L103153-06) Water Sampled: 03/26/01 13:33 Received: 03/26/01 07:15									
Diesel Range Hydrocarbons	155	50.0	ug/l	1	1D06013	04/06/01	04/10/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		80.1 %	40-140		"	"	"	"	
MW-10 (L103153-07) Water Sampled: 03/26/01 11:50 Received: 03/26/01 07:15									
Diesel Range Hydrocarbons	168	50.0	ug/l	1	1D06013	04/06/01	04/10/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		80.4 %	40-140		"	"	"	"	
MW-11 (L103153-08) Water Sampled: 03/26/01 11:00 Received: 03/26/01 07:15									
Diesel Range Hydrocarbons	179	50.0	ug/l	1	1D06013	04/06/01	04/10/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		82.4 %	40-140		"	"	"	"	

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-14 (L103153-09) Water Sampled: 03/26/01 10:15 Received: 03/26/01 07:15									
Diesel Range Hydrocarbons	140	50.0	ug/l	1	1D06013	04/06/01	04/10/01	DHS LUFT	D-15
<i>Surrogate: n-Pentacosane</i>		<i>84.1 %</i>	<i>40-140</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Polynuclear Aromatic Hydrocarbons by EPA method 8100
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L103153-02) Water Sampled: 03/26/01 15:50 Received: 03/26/01 07:15									
Acenaphthene	ND	5.00	ug/l	1	1C30014	03/30/01	04/03/01	EPA 8100	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.00	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	R-01
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		113 %	50-150	"	"	"	"	"	
MW-5 (L103153-03) Water Sampled: 03/26/01 14:16 Received: 03/26/01 07:15									
Acenaphthene	ND	5.00	ug/l	1	1C30014	03/30/01	04/03/01	EPA 8100	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.00	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		79.6 %	50-150	"	"	"	"	"	

Sequoia Analytical - San Carlos

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Gettler-Ryan/Geostrategies(1)
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 Dublin CA, 94568

Project: Chevron(1)
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Reported:
 04/11/01 15:03

Polynuclear Aromatic Hydrocarbons by EPA method 8100
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (L103153-05) Water Sampled: 03/26/01 14:58 Received: 03/26/01 07:15									
Acenaphthene	ND	5.00	ug/l	1	1C30014	03/30/01	04/03/01	EPA 8100	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.00	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		103 %		50-150	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
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Project: Chevron(1)
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 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

**Conventional Chemistry Parameters by APHA/EPA Methods
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L103153-02) Water Sampled: 03/26/01 15:50 Received: 03/26/01 07:15									
Total Alkalinity	194	5.00	mg/l	1	1D06007	04/06/01	04/06/01	SM 2320B	
MW-5 (L103153-03) Water Sampled: 03/26/01 14:16 Received: 03/26/01 07:15									
Total Alkalinity	468	5.00	mg/l	1	1D06007	04/06/01	04/06/01	SM 2320B	
MW-7 (L103153-04) Water Sampled: 03/26/01 12:36 Received: 03/26/01 07:15									
Total Alkalinity	488	5.00	mg/l	1	1D06007	04/06/01	04/06/01	SM 2320B	
MW-8 (L103153-05) Water Sampled: 03/26/01 14:58 Received: 03/26/01 07:15									
Total Alkalinity	426	5.00	mg/l	1	1D06007	04/06/01	04/06/01	SM 2320B	
MW-9 (L103153-06) Water Sampled: 03/26/01 13:33 Received: 03/26/01 07:15									
Total Alkalinity	335	5.00	mg/l	1	1D06007	04/06/01	04/06/01	SM 2320B	
MW-10 (L103153-07) Water Sampled: 03/26/01 11:50 Received: 03/26/01 07:15									
Total Alkalinity	277	5.00	mg/l	1	1D06007	04/06/01	04/06/01	SM 2320B	
MW-11 (L103153-08) Water Sampled: 03/26/01 11:00 Received: 03/26/01 07:15									
Total Alkalinity	297	5.00	mg/l	1	1D06007	04/06/01	04/06/01	SM 2320B	
MW-14 (L103153-09) Water Sampled: 03/26/01 10:15 Received: 03/26/01 07:15									
Total Alkalinity	303	5.00	mg/l	1	1D06007	04/06/01	04/06/01	SM 2320B	

Gettler-Ryan/Geostrategies(1)
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Project: Chevron(1)
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 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

Anions by EPA Method 300.0
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L103153-02) Water Sampled: 03/26/01 15:50 Received: 03/26/01 07:15									
Nitrate as NO3	ND	1.00	mg/l	10	1C26027	03/26/01	03/26/01	EPA 300.0	
Sulfate as SO4	ND	5.00	"	"	"	"	"	"	
MW-5 (L103153-03) Water Sampled: 03/26/01 14:16 Received: 03/26/01 07:15									
Nitrate as NO3	27.0	1.00	mg/l	10	1D05031	03/27/01	03/27/01	EPA 300.0	
Sulfate as SO4	197	5.00	"	"	"	"	"	"	
MW-7 (L103153-04) Water Sampled: 03/26/01 12:36 Received: 03/26/01 07:15									
Nitrate as NO3	17.5	1.00	mg/l	10	1D05031	03/27/01	03/27/01	EPA 300.0	
Sulfate as SO4	84.6	5.00	"	"	"	"	"	"	
MW-8 (L103153-05) Water Sampled: 03/26/01 14:58 Received: 03/26/01 07:15									
Nitrate as NO3	ND	1.00	mg/l	10	1D05031	03/27/01	03/27/01	EPA 300.0	
Sulfate as SO4	ND	5.00	"	"	"	"	"	"	
MW-9 (L103153-06) Water Sampled: 03/26/01 13:33 Received: 03/26/01 07:15									
Nitrate as NO3	ND	1.00	mg/l	10	1D05031	03/27/01	03/27/01	EPA 300.0	
Sulfate as SO4	6.70	5.00	"	"	"	"	"	"	
MW-10 (L103153-07) Water Sampled: 03/26/01 11:50 Received: 03/26/01 07:15									
Nitrate as NO3	1.83	1.00	mg/l	10	1D05031	03/27/01	03/27/01	EPA 300.0	
Sulfate as SO4	28.5	5.00	"	"	"	"	"	"	
MW-11 (L103153-08) Water Sampled: 03/26/01 11:00 Received: 03/26/01 07:15									
Nitrate as NO3	ND	1.00	mg/l	10	1D05031	03/27/01	03/27/01	EPA 300.0	
Sulfate as SO4	30.1	5.00	"	"	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Anions by EPA Method 300.0
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-14 (L103153-09) Water Sampled: 03/26/01 10:15 Received: 03/26/01 07:15									
Nitrate as NO3	ND	1.00	mg/l	10	1D05031	03/27/01	03/27/01	EPA 300.0	
Sulfate as SO4	35.1	5.00	"	"	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1040014 - EPA 5030B (P/T)

Blank (1040014-BLK1)

Prepared & Analyzed: 04/04/01

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	8.00		"	10.0		80.0	70-130			

LCS (1040014-BS1)

Prepared & Analyzed: 04/04/01

Benzene	8.71	0.500	ug/l	10.0		87.1	70-130			
Toluene	8.69	0.500	"	10.0		86.9	70-130			
Ethylbenzene	8.69	0.500	"	10.0		86.9	70-130			
Xylenes (total)	26.4	0.500	"	30.0		88.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.09		"	10.0		90.9	70-130			

LCS (1040014-BS2)

Prepared & Analyzed: 04/04/01

Purgeable Hydrocarbons as Gasoline	279	50.0	ug/l	250		112	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.31		"	10.0		93.1	70-130			

Matrix Spike (1040014-MS1)

Source: L103159-05

Prepared & Analyzed: 04/04/01

Purgeable Hydrocarbons as Gasoline	261	50.0	ug/l	250	ND	104	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.64		"	10.0		96.4	70-130			

Matrix Spike Dup (1040014-MSD1)

Source: L103159-05

Prepared & Analyzed: 04/04/01

Purgeable Hydrocarbons as Gasoline	279	50.0	ug/l	250	ND	112	60-140	6.67	25	
Surrogate: a,a,a-Trifluorotoluene	8.97		"	10.0		89.7	70-130			

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1040018 - EPA 5030B (P/T)

Blank (1040018-BLK1)

Prepared & Analyzed: 04/05/01

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	7.88		"	10.0		78.8	70-130			

LCS (1040018-BS1)

Prepared & Analyzed: 04/05/01

Benzene	7.86	0.500	ug/l	10.0		78.6	70-130			
Toluene	8.01	0.500	"	10.0		80.1	70-130			
Ethylbenzene	7.81	0.500	"	10.0		78.1	70-130			
Xylenes (total)	23.9	0.500	"	30.0		79.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.36		"	10.0		83.6	70-130			

LCS (1040018-BS2)

Prepared & Analyzed: 04/05/01

Purgeable Hydrocarbons as Gasoline	289	50.0	ug/l	250		116	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.17		"	10.0		91.7	70-130			

Matrix Spike (1040018-MS1)

Source: L103165-02

Prepared & Analyzed: 04/05/01

Benzene	8.28	0.500	ug/l	10.0	ND	82.8	60-140			
Toluene	8.39	0.500	"	10.0	ND	83.9	60-140			
Ethylbenzene	8.24	0.500	"	10.0	ND	82.4	60-140			
Xylenes (total)	25.1	0.500	"	30.0	ND	83.7	60-140			
Surrogate: a,a,a-Trifluorotoluene	8.68		"	10.0		86.8	70-130			

Matrix Spike Dup (1040018-MSD1)

Source: L103165-02

Prepared & Analyzed: 04/05/01

Benzene	8.75	0.500	ug/l	10.0	ND	87.5	60-140	5.52	25	
Toluene	8.77	0.500	"	10.0	ND	87.7	60-140	4.43	25	
Ethylbenzene	8.66	0.500	"	10.0	ND	86.6	60-140	4.97	25	
Xylenes (total)	26.6	0.500	"	30.0	ND	88.7	60-140	5.80	25	
Surrogate: a,a,a-Trifluorotoluene	8.53		"	10.0		85.3	70-130			

Sequoia Analytical - San Carlos

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6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1040019 - EPA 5030B (P/T)

Blank (1040019-BLK1)

Prepared & Analyzed: 04/05/01

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	10.7		"	10.0		107	70-130			

LCS (1040019-BS1)

Prepared & Analyzed: 04/05/01

Benzene	8.92	0.500	ug/l	10.0		89.2	70-130			
Toluene	8.81	0.500	"	10.0		88.1	70-130			
Ethylbenzene	8.88	0.500	"	10.0		88.8	70-130			
Xylenes (total)	26.9	0.500	"	30.0		89.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.7		"	10.0		107	70-130			

LCS (1040019-BS2)

Prepared & Analyzed: 04/05/01

Purgeable Hydrocarbons as Gasoline	225	50.0	ug/l	250		90.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.2		"	10.0		102	70-130			

Matrix Spike (1040019-MS1)

Source: L103165-08

Prepared & Analyzed: 04/05/01

Benzene	10.2	0.500	ug/l	10.0	ND	102	60-140			
Toluene	10.1	0.500	"	10.0	ND	101	60-140			
Ethylbenzene	10.4	0.500	"	10.0	ND	104	60-140			
Xylenes (total)	30.6	0.500	"	30.0	ND	102	60-140			
Surrogate: a,a,a-Trifluorotoluene	11.1		"	10.0		111	70-130			

Matrix Spike Dup (1040019-MSD1)

Source: L103165-08

Prepared: 04/05/01 Analyzed: 04/06/01

Benzene	9.20	0.500	ug/l	10.0	ND	92.0	60-140	10.3	25	
Toluene	9.21	0.500	"	10.0	ND	92.1	60-140	9.22	25	
Ethylbenzene	9.42	0.500	"	10.0	ND	94.2	60-140	9.89	25	
Xylenes (total)	27.8	0.500	"	30.0	ND	92.7	60-140	9.59	25	
Surrogate: a,a,a-Trifluorotoluene	10.4		"	10.0		104	70-130			

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Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1030091 - EPA 5030B [P/T]

Blank (1030091-BLK1)

Prepared & Analyzed: 03/27/01

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
Surrogate: 1,2-Dichloroethane-d4	53.2		"	50.0		106	76-114			
Surrogate: Toluene-d8	52.2		"	50.0		104	88-110			

Blank (1030091-BLK2)

Prepared & Analyzed: 03/27/01

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
Surrogate: 1,2-Dichloroethane-d4	54.5		"	50.0		109	76-114			
Surrogate: Toluene-d8	53.7		"	50.0		107	88-110			

LCS (1030091-BS1)

Prepared & Analyzed: 03/27/01

Methyl tert-butyl ether	55.5	2.00	ug/l	50.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	54.4		"	50.0		109	76-114			
Surrogate: Toluene-d8	51.8		"	50.0		104	88-110			

Sequoia Analytical - San Carlos

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Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1030091 - EPA 5030B [P/T]

LCS (1030091-BS2) Prepared & Analyzed: 03/27/01

Methyl tert-butyl ether	52.3	2.00	ug/l	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	55.6		"	50.0		111	76-114			
Surrogate: Toluene-d8	52.8		"	50.0		106	88-110			

Matrix Spike (1030091-MS1) Source: L103153-02 Prepared & Analyzed: 03/27/01

Methyl tert-butyl ether	50.1	2.00	ug/l	50.0	ND	100	60-140			
Surrogate: 1,2-Dichloroethane-d4	53.7		"	50.0		107	76-114			
Surrogate: Toluene-d8	51.8		"	50.0		104	88-110			

Matrix Spike Dup (1030091-MSD1) Source: L103153-02 Prepared & Analyzed: 03/27/01

Methyl tert-butyl ether	58.7	2.00	ug/l	50.0	ND	117	60-140	15.8	25	
Surrogate: 1,2-Dichloroethane-d4	57.3		"	50.0		115	76-114			
Surrogate: Toluene-d8	52.5		"	50.0		105	88-110			

Batch 1030093 - EPA 5030B [P/T]

Blank (1030093-BLK2) Prepared & Analyzed: 03/28/01

Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	53.4		"	50.0		107	76-114			
Surrogate: Toluene-d8	52.4		"	50.0		105	88-110			

Blank (1030093-BLK3) Prepared & Analyzed: 03/30/01

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
Surrogate: 1,2-Dichloroethane-d4	49.4		"	50.0		98.8	76-114			
Surrogate: Toluene-d8	51.3		"	50.0		103	88-110			

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1030093 - EPA 5030B [P/T]

LCS (1030093-BS2) Prepared & Analyzed: 03/28/01										
Ethanol	4220	1000	ug/l	5000		84.4	0-200			
1,2-Dibromoethane	50.6	2.00	"	50.0		101	0-200			
1,2-Dichloroethane	47.8	2.00	"	50.0		95.6	0-200			
Di-isopropyl ether	52.0	2.00	"	50.0		104	0-200			
Ethyl tert-butyl ether	53.2	2.00	"				0-200			
Methyl tert-butyl ether	52.8	2.00	"	50.0		106	70-130			
Tert-amyl methyl ether	53.8	2.00	"	50.0		108	0-200			
Tert-butyl alcohol	511	100	"	500		102	0-200			
Surrogate: 1,2-Dichloroethane-d4	53.7		"	50.0		107	76-114			
Surrogate: Toluene-d8	53.2		"	50.0		106	88-110			

LCS (1030093-BS3) Prepared & Analyzed: 03/30/01										
Methyl tert-butyl ether	53.3	2.00	ug/l	50.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.0		100	76-114			
Surrogate: Toluene-d8	50.9		"	50.0		102	88-110			

Matrix Spike (1030093-MS1) Source: L103153-07 Prepared & Analyzed: 03/28/01										
Methyl tert-butyl ether	51.2	2.00	ug/l	50.0	ND	102	60-140			
Surrogate: 1,2-Dichloroethane-d4	55.6		"	50.0		111	76-114			
Surrogate: Toluene-d8	52.8		"	50.0		106	88-110			

Matrix Spike Dup (1030093-MSD1) Source: L103153-07 Prepared & Analyzed: 03/28/01										
Methyl tert-butyl ether	57.4	2.00	ug/l	50.0	ND	115	60-140	11.4	25	
Surrogate: 1,2-Dichloroethane-d4	54.8		"	50.0		110	76-114			
Surrogate: Toluene-d8	51.2		"	50.0		102	88-110			

Batch 1030107 - EPA 5030B [P/T] Prepared & Analyzed: 03/30/01										
Blank (1030107-BLK1)										
Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							

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Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1030107 - EPA 5030B [P/T]

Blank (1030107-BLK1)

Prepared & Analyzed: 03/30/01

Surrogate: 1,2-Dichloroethane-d4	49.4		ug/l	50.0		98.8	76-114			
Surrogate: Toluene-d8	51.3		"	50.0		103	88-110			

Blank (1030107-BLK2)

Prepared & Analyzed: 04/03/01

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
Surrogate: 1,2-Dichloroethane-d4	51.9		"	50.0		104	76-114			
Surrogate: Toluene-d8	50.3		"	50.0		101	88-110			

LCS (1030107-BS1)

Prepared & Analyzed: 03/30/01

Methyl tert-butyl ether	53.3	2.00	ug/l	50.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.0		100	76-114			
Surrogate: Toluene-d8	50.9		"	50.0		102	88-110			

LCS (1030107-BS2)

Prepared & Analyzed: 04/03/01

Methyl tert-butyl ether	56.3	2.00	ug/l	50.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	54.2		"	50.0		108	76-114			
Surrogate: Toluene-d8	53.3		"	50.0		107	88-110			

Matrix Spike (1030107-MS1)

Source: L103153-09

Prepared & Analyzed: 03/30/01

Methyl tert-butyl ether	55.3	2.00	ug/l	50.0	ND	111	60-140			
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.0		100	76-114			
Surrogate: Toluene-d8	51.4		"	50.0		103	88-110			

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1030107 - EPA 5030B [P/T]

Matrix Spike Dup (1030107-MSD1)	Source: L103153-09		Prepared & Analyzed: 03/30/01							
Methyl tert-butyl ether	59.6	2.00	ug/l	50.0	ND	119	60-140	7.48	25	
Surrogate: 1,2-Dichloroethane-d4	52.8		"	50.0		106	76-114			
Surrogate: Toluene-d8	51.1		"	50.0		102	88-110			

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

Total Metals by 200.7 ICP - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D06021 - 200.7/ No Digest										
Blank (1D06021-BLK1)										Prepared & Analyzed: 04/06/01 O-04
Ferrous Iron	ND	0.0100	mg/l							
LCS (1D06021-BS1)										Prepared & Analyzed: 04/06/01 O-04
Ferrous Iron	0.992	0.0100	mg/l	1.00		99.2	80-120			
Matrix Spike (1D06021-MS1)										Source: L103153-02 Prepared & Analyzed: 04/06/01 O-04
Ferrous Iron	1.14	0.0100	mg/l	1.00	0.137	100	80-120			
Matrix Spike Dup (1D06021-MSD1)										Source: L103153-02 Prepared & Analyzed: 04/06/01 O-04
Ferrous Iron	1.13	0.0100	mg/l	1.00	0.137	99.3	80-120	0.881	20	

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

**Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D04030 - EPA 3510B										
Blank (1D04030-BLK1)				Prepared: 04/04/01 Analyzed: 04/06/01						
Diesel Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: n-Pentacosane	103		"	100		103	40-140			
LCS (1D04030-BS1)				Prepared: 04/04/01 Analyzed: 04/06/01						
Diesel Range Hydrocarbons	781	50.0	ug/l	1000		78.1	40-140			
Surrogate: n-Pentacosane	101		"	100		101	40-140			
LCS Dup (1D04030-BSD1)				Prepared: 04/04/01 Analyzed: 04/06/01						
Diesel Range Hydrocarbons	692	50.0	ug/l	1000		69.2	40-140	12.1	50	
Surrogate: n-Pentacosane	98.5		"	100		98.5	40-140			
Batch 1D06013 - EPA 3510B										
Blank (1D06013-BLK1)				Prepared: 04/06/01 Analyzed: 04/10/01						
Diesel Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: n-Pentacosane	63.0		"	100		63.0	40-140			S-08
LCS (1D06013-BS1)				Prepared: 04/06/01 Analyzed: 04/10/01						
Diesel Range Hydrocarbons	779	50.0	ug/l	1000		77.9	40-140			
Surrogate: n-Pentacosane	78.3		"	100		78.3	40-140			S-08
Matrix Spike (1D06013-MS1)				Source: MKC0608-01 Prepared: 04/06/01 Analyzed: 04/10/01						
Diesel Range Hydrocarbons	1570	50.0	ug/l	1000	614	95.6	40-140			
Surrogate: n-Pentacosane	83.2		"	100		83.2	40-140			S-08
Matrix Spike Dup (1D06013-MSD1)				Source: MKC0608-01 Prepared: 04/06/01 Analyzed: 04/10/01						
Diesel Range Hydrocarbons	1400	50.0	ug/l	1000	614	78.6	40-140	11.4	50	
Surrogate: n-Pentacosane	159		"	100		159	40-140			S-02,S-08

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Polynuclear Aromatic Hydrocarbons by EPA method 8100 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1C30014 - EPA 3510B

Prepared: 03/30/01 Analyzed: 04/03/01

Blank (1C30014-BLK1)

Acenaphthene	ND	5.00	ug/l							
Acenaphthylene	ND	5.00	"							
Anthracene	ND	5.00	"							
Benzo (a) anthracene	ND	5.00	"							
Benzo (a) pyrene	ND	5.00	"							
Benzo (b) fluoranthene	ND	5.00	"							
Benzo (ghi) perylene	ND	5.00	"							
Benzo (k) fluoranthene	ND	5.00	"							
Chrysene	ND	5.00	"							
Dibenz (a,h) anthracene	ND	5.00	"							
Fluoranthene	ND	5.00	"							
Fluorene	ND	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	5.00	"							
Naphthalene	ND	5.00	"							
Phenanthrene	ND	5.00	"							
Pyrene	ND	5.00	"							
<i>Surrogate: 2-Fluorobiphenyl</i>	78.6		"	100		78.6	50-150			

Prepared: 03/30/01 Analyzed: 04/03/01

LCS (1C30014-BS1)

Acenaphthene	95.1	5.00	ug/l	100		95.1	60-140			
Naphthalene	88.4	5.00	"	100		88.4	60-140			
Pyrene	103	5.00	"	100		103	60-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	92.8		"	100		92.8	50-150			

Prepared: 03/30/01 Analyzed: 04/03/01

LCS Dup (1C30014-BS1)

Acenaphthene	99.5	5.00	ug/l	100		99.5	60-140	4.52	40	
Naphthalene	91.2	5.00	"	100		91.2	60-140	3.12	40	
Pyrene	106	5.00	"	100		106	60-140	2.87	40	
<i>Surrogate: 2-Fluorobiphenyl</i>	95.3		"	100		95.3	50-150			

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D06007 - General Preparation

Blank (1D06007-BLK1)

Prepared & Analyzed: 04/06/01

Total Alkalinity ND 5.00 mg/l

LCS (1D06007-BS1)

Prepared & Analyzed: 04/06/01

Total Alkalinity 91.2 5.00 mg/l 100 91.2 80-120

Matrix Spike (1D06007-MS1)

Source: MKC0675-01

Prepared & Analyzed: 04/06/01

Total Alkalinity 119 5.00 mg/l 100 19.8 99.2 75-125

Matrix Spike Dup (1D06007-MSD1)

Source: MKC0675-01

Prepared & Analyzed: 04/06/01

Total Alkalinity 117 5.00 mg/l 100 19.8 97.2 75-125 1.69 20

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1C26027 - General Preparation										
Blank (1C26027-BLK1) Prepared & Analyzed: 03/26/01										
Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							
Blank (1C26027-BLK2) Prepared & Analyzed: 03/26/01										
Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							
LCS (1C26027-BS1) Prepared & Analyzed: 03/26/01										
Nitrate as NO3	9.67	0.100	mg/l	10.0		96.7	90-110			
Sulfate as SO4	10.0	0.500	"	10.0		100	90-110			
LCS (1C26027-BS2) Prepared & Analyzed: 03/26/01										
Nitrate as NO3	9.33	0.100	mg/l	10.0		93.3	90-110			
Sulfate as SO4	9.83	0.500	"	10.0		98.3	90-110			
Matrix Spike (1C26027-MS1) Source: MKC0597-01 Prepared & Analyzed: 03/26/01										
Nitrate as NO3	97.5	1.00	mg/l	100	2.44	95.1	80-120			
Sulfate as SO4	146	5.00	"	100	42.4	104	80-120			
Matrix Spike (1C26027-MS2) Source: L103153-02 Prepared & Analyzed: 03/26/01										
Nitrate as NO3	94.6	1.00	mg/l	100	ND	94.6	80-120			
Sulfate as SO4	97.3	5.00	"	100	ND	94.4	80-120			
Matrix Spike Dup (1C26027-MSD1) Source: MKC0597-01 Prepared & Analyzed: 03/26/01										
Nitrate as NO3	95.3	1.00	mg/l	100	2.44	92.9	80-120	2.28	20	
Sulfate as SO4	146	5.00	"	100	42.4	104	80-120	0	20	
Matrix Spike Dup (1C26027-MSD2) Source: L103153-02 Prepared & Analyzed: 03/26/01										
Nitrate as NO3	94.2	1.00	mg/l	100	ND	94.2	80-120	0.424	20	
Sulfate as SO4	97.0	5.00	"	100	ND	94.1	80-120	0.309	20	

Gentler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Chevron(1)
 Project Number: Chevron #206142/333 23RD AVE., OAKLA
 Project Manager: Deanna Harding

Reported:
 04/11/01 15:03

Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D05031 - General Preparation

Blank (1D05031-BLK1)

Prepared & Analyzed: 03/27/01

Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							

LCS (1D05031-BS1)

Prepared & Analyzed: 03/27/01

Nitrate as NO3	9.44	0.100	mg/l	10.0		94.4	90-110			
Sulfate as SO4	9.57	0.500	"	10.0		95.7	90-110			

Matrix Spike (1D05031-MS1)

Source: MKC0609-03

Prepared & Analyzed: 03/27/01

Nitrate as NO3	99.8	1.00	mg/l	100	2.64	97.2	80-120			
Sulfate as SO4	139	5.00	"	100	32.7	106	80-120			

Matrix Spike Dup (1D05031-MSD1)

Source: MKC0609-03

Prepared & Analyzed: 03/27/01

Nitrate as NO3	95.2	1.00	mg/l	100	2.64	92.6	80-120	4.72	20	
Sulfate as SO4	134	5.00	"	100	32.7	101	80-120	3.66	20	

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Chevron(1)
Project Number: Chevron #206142/333 23RD AVE., OAKLA
Project Manager: Deanna Harding

Reported:
04/11/01 15:03

Notes and Definitions

D-15 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24

O-04 This sample was analyzed outside the EPA recommended holding time.

P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12

R-01 The reporting limit for this analyte has been raised to account for matrix interference.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.

S-08 The opening calibration surrogate recovery was outside acceptable limit of 15% by 10%. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 2

Project Rhodes-Jamieson Owner Chevron

Location 333 23rd Ave. Oakland Project Number 20-3235

Date Drilled 9/5/85 Total Depth of Hole 24 ft. Diameter 7.5 in.

Surface Elevation 18/48 ft Water Level, Initial 11 ft. 24-hrs. 8.11 ft.

Screen: Dia. 4 in. Length 15 ft. Slot Size .020 in.

Casing: Dia. 4 in. Length 5 ft. Type PVC

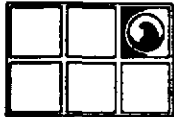
Drilling Company All Terraine Drilling Method H.S. Auger

Driller Wes Rigsby Log by Cori Condon

Sketch Map

Notes Drilled 24 ft. sand pack to 4 ft. bentonite to 3 ft. cement seal and steel marhole to surface

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					Gray sand and gravel, loose, dry, no odor
1					
2					Brown sand and gravel, loose, dry, no odor
3		3-6-9	4		Dark gray clay, stiff, moist, no odor
4					
5					
6					
7					
8		8-12-15	5		Orange-brown cse. sand and gravel, moderate comp., moist, no odor.
9					
10					
11					
12					
13		4-6-9	6		Light brown sandy clay, stiff, wet, no odor
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					Drilled 24 ft.



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 3

Project Rhodes-Jamieson Owner Chevron

Location 333 23rd Ave. Oakland Project Number 20-3235

Date Drilled 9/5/85 Total Depth of Hole 24 ft. Diameter 7.5 in.

Surface Elevation 19.29 ft Water Level, Initial 11 ft. 24-hrs. 7.40 ft.

Screen: Dia. 4 in. Length 15 ft. Slot Size .020 in.

Casing: Dia. 4 in. Length 5 ft. Type PVC

Drilling Company All Terraine Drilling Method H.S. Auger

Driller Wes Rigsby Log by Cori Condon

Sketch Map

Notes Drilled 24 ft. sand pack to 4 ft. bentonite to 2.5 ft. cement and steel manhole to surface

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					Gray fine sand, loose, dry, no odor.
1					
2					Brown cse sand, wood frags, and occassional cobble, moderate comp., dry, no odor
3		5-9-12	7		Dark organic rich sandy clay, damp, no odor
4					
5					
6					
7					
8		7-5-8	8		Brown sandy clay with occassional gravel, moderate comp., moist, no odor
9					
10					
11					Gray clayey sand, dense, wet, no odor
12					
13		5-8-13	9		Sticky brown sandy clay, wet, no odor
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					Drilled 24 ft.



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Well Number 4

Drilling Log

Project Rhodes-Jamieson Owner Chevron

Location 333 23rd Ave. Oakland Project Number 20-3235

Date Drilled 17.57 ft. Total Depth of Hole 24 ft. Diameter 7.5 in.

Surface Elevation _____ Water Level, Initial 11 ft. 24-hrs. 7.29 ft.

Screen: Dia. 4 in. Length 15 ft. Slot Size .020 in.

Casing: Dia. 4 in. Length 5 ft. Type PVC

Drilling Company All Terrain Drilling Method H.S. Auger

Driller Wes Rigby Log by Cori Condon

Sketch Map

Notes Drilled 24 ft. sand pack to 4 ft. bentonite to 2 ft. cement and steel marhole to surface

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0		Blowcount			Gray sand and gravel, loose, dry, no odor
1					
2					
3					
4					Gray-brown cse. sand and angular gravels, moderate comp., moist, no odor
5					
6					
7					Black organic rich sandy clay, wood frags., stiff, moist, no odor
8		10-11-12	10		Brown sandy clay with multi-colored angular gravels ~80%, wet, no odor
9					
10					
11					
12					
13					Brown sandy clay, moderate comp., wet, no odor
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					Drilled 24 ft.



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 5

Project Rhodes-Jamieson Owner Chevron

Location 333 23rd Ave. Oakland Project Number 20-3235

Date Drilled 9/5/85 Total Depth of Hole 24 ft. Diameter 7.5 in.

Surface Elevation 19.14 ft Water Level, Initial 11 ft. 24-hrs. 8.02 ft.

Screen: Dia. 4 in. Length 15 ft. Slot Size .020 in.

Casing: Dia. 4 in. Length 5 ft. Type PVC

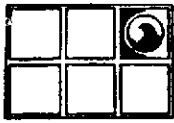
Drilling Company All Terraine Drilling Method H.S. Auger

Driller Wes Rigsby Log by Cori Condon

Sketch Map

Notes Drilled 24 ft. sand pack to 4 ft. bentonite to 2 ft. cement and steel marhole at surface

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0		Blowcount			Cement
1					Orange-brown angular gravels with sandy clay matrix moderate comp., damp, no odor
2					Black organic rich sandy clay, stiff, damp, no odor
3					
4					
5					
6					
7					
8		5-9-10	11		Gray black clayey sand, moderate comp., moist, no odor
9					
10					
11					Brown sandy clay, occassional subangular gravels, moderate comp., wet, no odor
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					Drilled 24 ft.



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 6

Project Chevron/Rhodes-Jamieson Owner Chevron U.S.A., Inc.

Location 333 23rd Ave. Oakland Project Number 20-3235

Date Drilled 9/19/85 Total Depth of Hole 24 ft. Diameter 7.5 in.

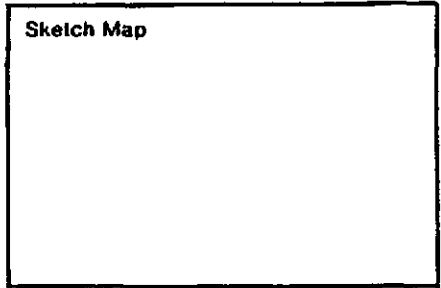
Surface Elevation 19.04 ft. Water Level, Initial 8.5ft. 24-hrs. 8.88 ft.

Screen: Dia. 3 in. Length 15 ft. Slot Size .020 in.

Casing: Dia. 3 in. Length 5 ft. Type PVC

Drilling Company Sierra Pacific Drilling Method H.S. Auger

Driller Lynn Pera Log by Cori Condon



Notes: Drilled 24ft., sand pack to 3.5 ft. bentonite and cement to surface, finish with locking cap placed inside christ box

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					Cement
1					Dark sand and gravel, well comp., wet, no odor
2					
3					
4					Black organic rich clay, mod. comp., moist, sulfur odor
5					Blue gray sandy clay, occasional angular gravel, well comp., moist, no odor
6					
7					
8					Brown sand and gravel, clay matrix, moderately comp. wet, no odor
9					
10					Light brown sandy clay, stiff, wet, no odor
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					Brown cse to med. sand, loose, wet, no odor
21					
22					
23					
24					Gray med.-cse sand, mod. comp., wet, no odor.



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 7
 Project Rhodes Jamieson Owner Chevron U.S.A., Inc.
 Location 333 23rd Ave. Oakland Project Number 20-3264
 Date Drilled 10/26/85 Total Depth of Hole 24 ft. Diameter 7.5 in.
 Surface Elevation 18.15 ft. Water Level, Initial 11.5 ft. 24-hrs. 8.26 ft.
 Screen: Dia. 4 in. Length 15 ft. Slot Size .020 in.
 Casing: Dia. 4 in. Length 5 ft. Type PVC
 Drilling Company Sierra Pacific Drilling Method h.s. auger
 Driller Lynn Pera Log by Cori Condon

Sketch Map

Notes Sand Pack to 3.5 ft., Bentonite & Cement to Surface.

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					Cement and base rock.
1					Gray sand and gravel, organic rich, moist, moderate compaction, no odor.
2					
3					
4					Green-gray sandy clay, moist, stiff, diesel odor.
5					
6					Brown mottled clayey sand and gravel, moist, moderate compaction, diesel odor.
7					
8					
9		5-8-16	1		
10					Brown fine sandy clay with occasional gravel, wet, moderate compaction, no odor.
11					
12					Gray-brown medium coarse sand, wet, moderate compaction, no odor.
13					
14					
15					
16					Gray-brown medium coarse sand, wet, moderate compaction, no odor.
17					
18					
19					
20					
21					
22					
23					
24					



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 9

Project Rhodes Jamieson Owner Chevron U.S.A., Inc.

Location 333-23rd. Ave., Oakland Project Number 20-3264

Date Drilled 10/26/85 Total Depth of Hole 24 ft. Diameter 7.5 in.

Surface Elevation 18.14 ft. Water Level, Initial 9 ft. 24-hrs. 7.92 ft.

Screen: Dia. 4 in. Length 15 ft. Slot Size .020 in.

Casing: Dia. 4 in. Length 5 ft. Type PVC

Drilling Company Sierra Pacific Drilling Method h.s. auger

Driller Lynn Pera Log by Cori Condon

Sketch Map

Notes Sand pack to 3 ft.
Bentonite & Cement to
Surface.

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					Cement and base rock.
1					
2					
3					
4					
5					
6					
7					
8					
9		7-11-13	3		Brown sand transition with cse. sand and gravel, wet, no diesel odor, moderate compaction.
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					Brown cse. medium sand and gravel, more clay, wet, no diesel odor, moderate compaction.
20					
21					
22					Intermittent clay layer, wet, no diesel odor, moderate compaction.
23					
24					Brown medium cse. sand, wet, no diesel odor, moderate compaction.



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 10
 Project RHODES/JAMIESON Owner CHEVRON
 Location 333-23rd. Ave. Oakland Project Number 20-3264
 Date Drilled 11/14/85 Total Depth of Hole 24 ft Diameter 7.5 in.
 Surface Elevation 18.93 ft Water Level, Initial 10 ft 24-hrs. 8.30 ft.
 Screen: Dia. 4 in. Length 15 ft. Slot Size .020 in.
 Casing: Dia. 4 in. Length 3.5 ft. Type PVC
 Drilling Company Sierra Pacific Drilling Method h.s. Auger
 Driller D. Earley Log by Cori Condon

Sketch Map

Notes Sand pack to 2.5ft.
 Bentonite & cement to surface.

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					
1					Cement
2					Black/green sandy clay, organic rich, moist, no odor.
3					
4					
5					
6					
7					
8					
9					
10					Brown sandy clay occasional gravel, moist, no odor.
11					Brown sandy clay, more gravels, moist, no odor.
12					
13					
14					
15					Orange/brown sand and gravel, wet.
16					
17					
18					
19					
20					Gray clayey sand, wet, no odor.
21					
22					
23					
24					Gray clean sand, wet, no odor.

Blow/ Ft.	Sample No.	USCS	Description	Well Const
2			FILL - CLAYEY, SANDY GRAVEL - light brown	
4	8	CL	SILTY CLAY - brown, damp, soft, medium plasticity, trace fine sand, NOSC	
6				
8				
10	13	ML	CLAYEY SILT - light brown, stiff damp, root holes, wet, NOSC	
12				
14				
16		ML	SANDY SILTY CLAY - light brown, 30-40% fine sand, wet soft, NOSC	
18				
20		SM	SAND - light brown, fine grained sand, loose, NOSC, wet = 20% silt	
22			Total Depth of boring = 21.5 feet Total Depth of well = 20.0 feet Logged by Mark Klaver 8/19/87	

K KLEINFELDER

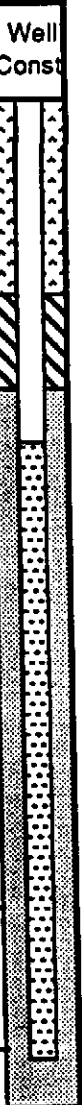
CHEVRON/LONESTAR
333 23rd AVENUE OAKLAND, CALIFORNIA

PLATE

4

PROJECT NO. 10-1709-02

BORING LOG NO. MW-11

Blow/ Ft.	Sample No.	USCS	Description	Well Const
2			FILL - brown, gravelly sandy clay, NOSC	
4				
6		CL	SILTY CLAY - black, some organic content, soft, damp, NOSC	
8				
10	28	SP	SAND - light brown, medium to coarse sand, few small gravel, dense, becoming wetter at 10 ft., NOSC	
12				
14	24	CL	SANDY CLAY - light brown to light grey, NOSC, medium plasticity, stiff, some fine sand, moist	
16				
18		SP	SAND AND GRAVEL - multi-colored, medium to coarse sand, gravel subrounded to 3/4-inch diameter, NOSC	
20	42	SM	SAND - light brown to buff, very fine to fine grained sand, wet, dense, NOSC	
22			Total Depth of boring = 21.5 feet Total Depth of well = 20.0 feet Logged by Mark Klaver 8/19/87	

Blow/ Ft.	Sample No.	USCS	Description	Well Const
2			FILL - brown, gravelly sandy clay ,NOSC	
4				
6		CL	SILTY CLAY - black, high organics, soft, moist	
8				
10	29	ML	SANDY SILT - light brown with some green mottles,NOSC, dense, moist, 40% fine to medium grained sand, some clay	
12		GP	SANDY GRAVEL - brown to grey, wet, medium to coarse sand, gravel subrounded to subangular 1/2-inch diameter (one greenstone cobble, 1-1.2 inches)	
14				
16	12	ML	SANDY CLAY - light brown to grey, medium plasticity, moist to wet, 20% very fine sand, NOSC	
18				
20	44	SM	SAND - light brown, very fine to fine grained sand, dense, moist, NOSC	
22			Total Depth of boring = 21.5 feet Total Depth of well = 20.0 feet Logged by Mark Klaver 8/19/87	

KI KLEINFELDER

CHEVRON/LONESTAR
333 23rd AVENUE OAKLAND, CALIFORNIA

PLATE

5

PROJECT NO. 10-1709-02

BORING LOG NO. MW-13

Gettler-Ryan, Inc.

Log of Boring MW-14

PROJECT: Chevron/RMC Lonestar Facility CPS #206142

LOCATION: 333 23rd Avenue, Oakland, CA

G-R PROJECT NO.: 6338.01

SURFACE ELEVATION: 5.56 feet MSL

DATE STARTED: 06/20/97

WL (ft. bgs): 8.0 DATE: 06/20/97 TIME: 15:00

DATE FINISHED: 06/20/97

WL (ft. bgs): 8.0 DATE: 06/20/97 TIME: 16:20

DRILLING METHOD: 8 in. Hollow Stem Auger

TOTAL DEPTH: 21.5 Feet

DRILLING COMPANY: Bay Area Exploration, Inc.

GEOLOGIST: Barbara Sieminski

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT. GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
					GC	PAVEMENT - concrete.	
28			MW14-3	[Hatched pattern]	CH	CLAYEY GRAVEL WITH SAND (GC) - very dark gray (5Y 3/1), moist, dense; 40% fine to coarse gravel, 30% clay, 30% fine to coarse sand.	
5	41	11	MW14-6	[Hatched pattern]	CL	CLAY (CH) - black (5Y 2.5/1), moist, stiff, high plasticity; 100% clay : Bay Mud. Color changes to gray (2.5Y 3/0), up to 5% fine to coarse sand at 6 feet.	
10	43	8	MW14-11	[Hatched pattern]	CL	CLAY (CL) - pale brown (10YR 6/3), saturated, medium stiff, medium plasticity; 100% clay.	
15	35	9	MW14-16	[Hatched pattern]	CL	SANDY CLAY (CL) - light yellowish brown (2.5Y 6/4), saturated, medium stiff, low plasticity; 60% clay, 40% fine to coarse sand.	
20	57	32	MW14-21	[Dotted pattern]	SP	SAND (SP) - light yellowish brown (2.5Y 6/4), saturated, dense; 100% fine to medium sand.	
25						(* = converted to equivalent standard penetration blows/ft.)	
30							
35							

Depth (feet)	Blow/ Ft.	Sample No.	USCS	Description	Well Const
0			GM	SILTY GRAVEL - yellowish brown	
2			ML	CLAYEY SILT - bluish gray, moist, low plasticity, some fine sand	
4			CL	SILTY CLAY - grayish black, dry, medium to high plasticity, stiff	
6	14				
8					
10	14		GM	SILTY GRAVEL - varicolored, wet, medium dense, firm, subangular gravel to 1/2-inch, some fine to coarse grained angular sand	
12			ML	CLAYEY SILT - light yellowish brown, dry, nonplastic, soft	
14					
16	5				
18					
20			SP	SAND - yellowish brown, wet, dense, fine grained	
22	48			some clay at approximately 23 feet	
24			CL	SILTY CLAY - pale brown, dry, low plasticity, hard, trace fine sand	
26	32				
28			Total Depth = 26.5 feet Logged By: K.R. Reynolds Drilling Date(s): 4-4-88		
30					



KLEINFELDER

BORING LOG - RECOVERY WELL R2

PLATE

CHEVRON / LONESTAR

3

PROJECT NO. 10-1820-017