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QUARTERLY GROUNDWATER MONITORING REPORT

April 8, 2002

**Sheaff's Garage
5930 College Avenue
Oakland, California
STID # 514**

Prepared For:


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Prepared By:


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255 Shipley Street
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GGTR Project No. 7335
May 15, 2002

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Project Engineer

QUARTERLY GROUNDWATER MONITORING REPORT April 8, 2002

5930 College Avenue, Oakland, California

Introduction

This report presents the results and findings of the April 8, 2002 groundwater monitoring and sampling activities conducted by Golden Gate Tank Removal, Inc. (GGTR) at 5930 College Avenue in Oakland, California. This was the 9th quarterly monitoring event performed at the site for the three existing monitor wells, MW1 through MW3. The Local Oversight Program of the Alameda County Health Care Services Agency (ACHCSA) Environmental Protection Division designated the site as case STID #514. Figure 1, *Site Location Map*, shows the general location of the subject property in Oakland, California. The site, adjacent properties, and associated features are shown on the revised Figure 2, *Site Plan*. The groundwater elevation isocontour lines and associated gradient is shown on Figure 3, *Groundwater Potentiometric Map*. Figure 4, *Historical Groundwater Monitoring Results at 5930 College Avenue*, provides a tabulated summary of the laboratory results of historical groundwater sample analyses and fluid-level monitoring data at the site.

Gettler-Ryan, Inc. of Dublin, California is currently conducting a separate groundwater investigation for the former Chevron Station #20-9339 located adjacent to the north side of the subject property at 5940 College Avenue. Two groundwater monitoring wells are used to evaluate the hydrocarbon concentrations in groundwater at this site. Gettler-Ryan, Inc., in a joint venture with GGTR, also conducted monitoring and sampling activities at 5940 College Avenue on April 8, 2002. Figures 2 and 3 show the location of each well (GR-MW1 & GR-MW2) relative to the subject wells at 5930 College Avenue.

Results of Groundwater Sampling and Laboratory Analysis

The table shown below summarizes the laboratory analytical results of groundwater samples collected during the April 8, 2002 monitoring event. The table includes results reported for the groundwater samples collected (April 8, 2002) by Gettler-Ryan, Inc. from the monitor wells located at 5940 College Avenue (GR-MW1 and GR-MW2). A copy of the Laboratory Certificate of Analysis and the Chain-of-Custody Record associated with both GGTR's and Gettler-Ryan's groundwater samples is in the Appendix. Documentation of the well purging and sampling activities is contained in the Field Data Sheets of the Appendix. Included in the Appendix is a facsimile copy of monitor well observation summary sheet for the two wells monitored and sampled by Gettler-Ryan, Inc.

Table – April 8, 2002 Groundwater Sampling Results

Well ID	Sample ID	TPH-G (ug/L)	BTEX (ug/L)	MTBE (ug/L)
MW1	7335-MW1	111,000	21,200 / 13,400 / 4,230 / 21,000	814 (679*)
MW2	7335-MW2	66,700	10,200 / 2,670 / 3,840 / 13,200	583*
MW3	7335-MW3	11,700	540 / 108 / 706 / 1,710	ND*
GR-MW1	MW-1-W	670	ND / ND / ND / 5.6	ND
GR-MW2	MW-2-W	4,000	70 / 1.7 / 17 / 17	ND

Notes: TPH-G - Total Petroleum Hydrocarbons as Gasoline (EPA Methods 5030/8015M)
 BTEX - Benzene / Toluene / Ethylbenzene / Xylenes (EPA Methods 5030/8020)
 MTBE - Methyl Tertiary Butyl Ether (EPA Method 5030/8020)
 ug/L - micrograms per liter (equivalent to parts per billion - ppb)
 ND - not detected above laboratory reporting limit (See QC/QA, Lab Report)
 * - confirmed by EPA Method 8260

Total Petroleum Hydrocarbons as gasoline (TPH-G) slightly increased in monitor well MW1 from 96,100 to 111,000 micrograms per liter (ug/L), as compared to the January 2002 monitoring event. The concentration of TPH-G reported in MW2 increased slightly from 59,600 to 66,700 ug/L as compared to the last quarterly monitoring event and continues to show a gradual increase in TPH-G since the October 2000 event (31,000 ug/l). The concentration of TPH-G measured in MW3 increased from 7,260 to 11,700 ug/L since the last monitoring event and appears to show a gradual increase in hydrocarbon concentration since the October 2001 event (4,913 ug/L). The TPH-G concentration measured in Gettler-Ryan's well MW2 (GR-MW2), located approximately 75 feet north of GGTR well MW1, was 4,000 ug/l, which increased significantly since the previous monitoring event (410 ug/L) and is comparable to the October 2001 event (4,200 ug/L).

The concentration of methyl tertiary-butyl ether (MTBE) increased slightly in MW1 from 596 to 814 ug/L (679 ug/L, as confirmed by EPA Method 8260), and in MW2, from 366 to 583 ug/L as compared to the January 2002 event. Since January 2000, the concentration of MTBE reported in MW3 has remained relatively stable, fluctuating slightly from 35 ug/l

(October/July 2001) to 81.7 ug/l (January 2002), and currently is below the laboratory reporting limit (0.5 ug/L).

The dissolved-phase benzene concentration measured in MW1 and MW2 (21,200 & 10,200 ug/L) remained relatively equal to the benzene concentrations previously reported in the respective wells during the January 2002 monitoring event (21,100 & 10,300 ug/l). The benzene concentration measured in the groundwater sample collected in MW3 decreased slightly from 723 to 540 ug/L, as compared with the previous monitoring event. The benzene concentration measured in GR-MW2 was 70 ug/l and the MTBE concentration measured in GR-MW1 and -MW2 was below the laboratory reporting limit.

The groundwater sample collected in MW1 also contained 361 ug/L 1,2-Dichlorethane, a known lead scavenger in gasoline (ASTM, Designation E 1739-95) and common sanitary line contaminant.

Neither free product nor surface sheen was present in the purge water or groundwater samples in MW1 through MW3 during the April 2002 monitoring event, however, gasoline-like odors were observed in the purge water removed from each of the three groundwater wells during this monitoring event. According to the monitor well observation summary sheet provided by Gettler-Ryan, Inc. for this event, neither free product, surface sheen, nor hydrocarbon odor were observed in either of their monitoring wells located to the north and northwest of the subject property.

Results of Groundwater Elevation Measurements

The groundwater elevations measured relative to the top of well casing in MW1 through MW3 ranged from 188.88 (MW2) to 189.06 (MW1) feet above Mean Sea Level. The associated groundwater gradient calculated for the April 8, 2002 monitoring event was 0.6 foot / 100 feet (0.006 ft/ft) directed approximately 43° east of south. The groundwater gradient and associated elevation isocontour lines are shown on Figure 3. The depth to groundwater relative to the top of well casing in GR-MW1 and GR-MW2 (adjacent to the site) was 7.45 and 8.37 feet, respectively (April 8, 2002). The corresponding groundwater elevations based on Gettler-Ryan's wellhead elevation data is 188.45 and 188.91 feet, respectively, above Mean Sea Level. The associated subject site gradient and flow direction incorporating GR-MW1, GR-MW2, and MW1 for the April 2002 event was 0.9 foot / 100 feet directed approximately 83° west of north.

The table shown below lists the historical data for MW1 through MW3 on mean groundwater elevation, flow direction, and groundwater slope for the site. Note that the groundwater elevations prior to April 25, 2001 are referenced to an arbitrary site-specific datum point (MW1; north side of top of well casing) with an assumed elevation of 50 feet. This arbitrary datum point is not referenced to Mean Sea Level.

Table - Mean Groundwater Elevation, Flow Direction, and Gradient

Measurement Date	Mean Groundwater Elevation (feet)	Groundwater Flow Direction	Gradient (feet / 100 feet)
10/07/99	39.87	11° west of south	0.67 foot / 100 feet
01/26/00	43.1	23° west of north	9.12 feet / 100 feet
10/25/00	39.96	40° east of north	0.64 foot / 100 feet
04/25/01	188.6	55° west of north	0.69 foot / 100 feet
07/10/01	186.26	4° east of north	0.5 foot / 100 feet
10/08/01	184.99	48° east of north	1.6 feet / 100 feet
01/07/02	191.63	52° west of south	2.3 feet / 100 feet
04/08/02	188.94	43° east of south	0.6 foot / 100 feet

Discussion of Monitoring Results

The mean groundwater elevation measured at the site during this event was approximately 2.69 feet lower than that measured in January 2002. Based on the relative groundwater elevation data recorded for this event, the groundwater flow direction was directed approximately 43° east of south, an assumed counterclockwise shift of approximately 95° from the southwest, as compared to the last monitoring event. As presented in the above table, the flow direction calculated in April 2002 is the first directed within the southeast quadrant and does not compare to any of the previous flow directions across the site. The calculated gradient slope for this event (0.006 foot/foot) has decreased significantly by approximately 0.01 to 0.017 foot per foot in comparison to that for the October 2001 and January 2002 events, respectively. The estimated gradient direction utilizing Gettler-Ryan's well data was relatively similar to that measured in April (N55°W) and October (N83°W) 2001. Surface sheen diminished in MW3 and only a slight hydrocarbon odor was detected in each well.

Based on the findings and discussion presented above, GGTR recommends that the monitoring of the three groundwater wells be continued on a quarterly basis to further evaluate the fluctuating concentrations of dissolved-phase, gasoline-range hydrocarbons as well as the fluctuation in gradient direction observed at the site since October 1999. Groundwater samples collected in each well should continue to be analyzed for TPH-G, BTEX and MTBE. Based on the detection of 1,2-DCA in MW1, GGTR recommends additionally analyzing the groundwater sample collected in each well (during the next event) for fuel oxygenates by EPA Method 8260B. The next joint groundwater monitoring event is tentatively scheduled during the week of July 12, 2002.

On December 19, 2001, GGTR submitted a *Work Plan for Additional Soil & Groundwater Investigation* to evaluate both the potential of other onsite sources contributing to the

elevated dissolved-phase hydrocarbons and whether subsurface utilities along College Avenue are potentially acting as migratory pathways for on- and off-site contaminant migration. The ACHCSA approved the work plan in their letter dated January 3, 2002. Implementation of the approved work plan has not yet been performed. Upon client authorization to proceed with the approved activities, GGTR will initiate all pre-field activities as described in the approved work plan.

Following receipt and interpretation of all data collected during the additional investigation activities as well as data from obtained from the July 2002 quarterly groundwater monitoring activities, GGTR will evaluate the need to further assess the lateral extent of the hydrocarbon plume in the direct vicinity of the site.

Water Sample Analytical Methods

The groundwater samples collected from the three monitoring wells on April 8, 2002 were analyzed for the following fuel constituents:

- TPH as Gasoline (TPH-G; EPA Methods 5030/8015M)
- Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX; EPA Methods 5030B/8020F)
- Methyl Tertiary-Butyl Ether (MTBE; EPA Method 5030/8020); Verified by EPA Method 8260B
- Fuel Oxygenates; MW1 only (EPA Method 8260B)

North State Environmental (NSE) Laboratory of South San Francisco, California analyzed the groundwater samples on April 9 and 10, 2002. NSE submitted all analytical data in EDD format in accordance with the State Water Resources Control Board Assembly Bill 2886 for submission to the State's GeoTracker database system. The analytical results for this event as well as those reported during each previous monitoring event are tabulated in Figure 4. A copy of the Laboratory Certificate of Analysis, Field Data Sheets and Chain of Custody Forms are included in the Appendix.

Field Procedures

GGTR monitored and sampled MW1 through MW3 on April 8, 2002, in accordance with the requirements and procedures of the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) and the ACHCSA. Prior to purging and sampling, GGTR removed the well cover and locking compression cap from each well and allowed the groundwater in each well column to stabilize for approximately 25 minutes. GGTR then measured and recorded the depth to groundwater and presence of floating using a Keck® electronic oil/water interface probe. Fluid levels were measured relative to the north side of the top of each well casing to the nearest 0.01 foot. In addition, GGTR carefully inserted a clear acrylic bailer in each well to approximately 1 foot below the

groundwater table and removed a small volume of groundwater to check for the presence of free-phase hydrocarbons or surface sheen.

GGTR then purged a minimum of three casing volumes from each well using a direct current, centrifugal purge pump, and simultaneously monitored and recorded the pH, temperature, and specific conductivity of the purged well water. Well purge water was transferred directly to a 55-gallon, D.O.T.-approved steel drum. After the groundwater in each well recharged to approximately 80% of its original level, GGTR collected a groundwater sample by lowering a disposable, bottom-fill, polyvinyl chloride (PVC) bailer to just below the well's air-water interface. The bailer was immediately removed from the well and the groundwater was carefully decanted from the bailer into pre-cleaned, laboratory-provided sample containers. All volatile organic analysis (VOA) vials were inverted and checked to insure that no entrapped air was present. The samples were sealed with Teflon caps, properly labeled, and stored in a cooler chilled to approximately 4°C. GGTR then submitted the samples under chain-of-custody protocol to the State-certified, North State Environmental Analytical Laboratory (CA ELAP #1753) in South San Francisco, California.

Quality Assurance / Quality Control

Quality Assurance and Quality Control details are shown on the laboratory Certificate of Analysis in the Appendix. The laboratory reported no quality assurance or quality control problems during the laboratory analysis procedures. All samples were analyzed within specified laboratory holding times.

Waste Management

The drummed well purge and equipment wash and rinse water (@ 25 gallons) generated during the April 2002 monitoring event was transported to GGTR's storage facility in San Francisco, California. On April 23, 2002, Clearwater Environmental pumped the purge and equipment wash and rinse water from the drum into a tanker truck and transported the non-RCRA hazardous waste liquid under uniform waste manifest No. 99643728 to the Alviso Independent Oil facility in Alviso, California. A copy of the liquid waste manifest is appended.

Project History and Chronology

During 1996, GGTR removed two underground storage tanks (UST) and fuel dispenser from a common location at the site. The following table shows a summary of the tank designations, size, type of construction and contents:

Designation	Construction	diameter (feet)	length (feet)	size (gallons)	contents
TANK 1	steel	4	7	675	gasoline
TANK 2	steel	4	3.5	340	waste oil

The ages of the tanks are unknown but are believed to be between 40 and 60 years old. During the UST removal there was evidence of a gasoline leak in surrounding soils and GGTR over-excavated gasoline-contaminated soil from surrounding the former UST location. The removal and over-excavation was documented in the GGTR's *Tank Removal Report* dated October 11, 1996.

The following list of activities shows the significant investigation and remedial action performed at the site:

- 08/06/96 Underground storage tanks 1 and 2 were removed and samples recovered
- 08/15/96 A work plan was submitted by GGTR for over excavation and disposal of gasoline-contaminated soil surrounding the UST
- 09/30/96 Over-excavation of gasoline-contaminated soil performed
- 10/01/96 Last of additional excavation soil disposed of at a Class II facility
- 10/11/96 TANK REMOVAL REPORT published by GGTR
- 12/30/96 ACHSA submitted letter requiring soil and groundwater investigation
- 03/10/97 GGTR authorized to prepare a work plan for additional investigation
- 04/01/97 GGTR submitted work plan for a Soil and Groundwater Investigation
- 04/21/97 ACHSA submitted letter authorizing work plan
- 05/06/98 GGTR drills borings B1 through B3
- 05/20/98 GGTR drills borings B4 (Monitoring Well MW1)
- 05/27/98 GGTR develops monitoring well MW1
- 06/01/98 GGTR measures, purges and samples monitoring well MW1
- 06/17/98 GGTR submitted Soil and Groundwater Investigation Report
- 07/21/98 GGTR submitted Work Plan Addendum for installation of two additional groundwater monitoring wells
- 09/10/98 GGTR measures, purges and samples monitoring well MW1 then submits a groundwater monitoring report
- 10/02/99 GGTR drills two borings (B5 and B6) and converts them to groundwater monitoring Wells (MW2 and MW3)
- 10/04/99 GGTR develops monitoring wells MW2 and MW3

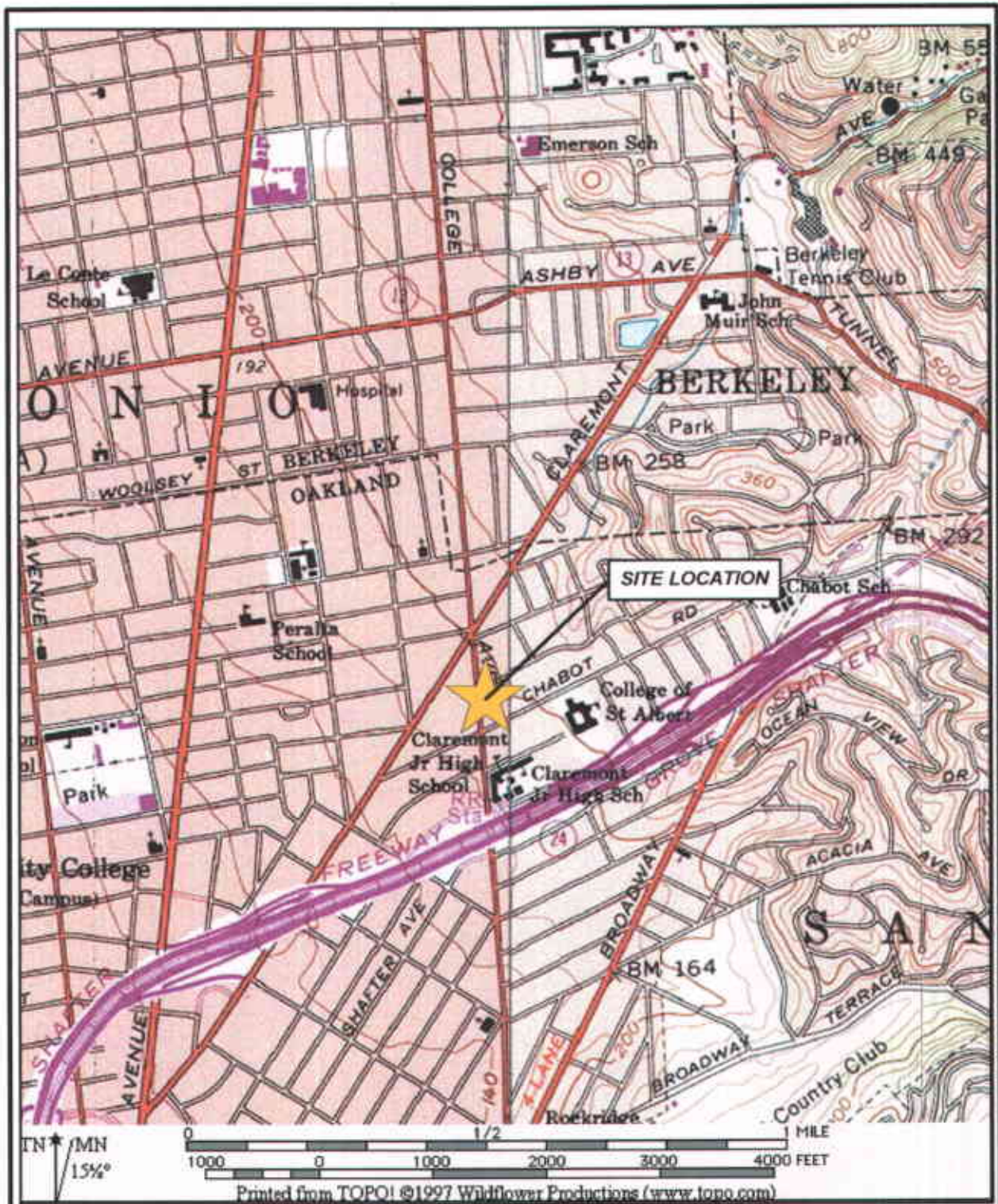
- 10/07/99 GGTR surveys monitoring wells MW2 / MW3; measures, purges and samples monitoring wells MW1, MW2 and MW3 then submits a groundwater monitoring report
- 10/22/99 GGTR submitted Summary Report
- 11/24/99 HCS submitted letter requiring quarterly monitoring and setting parameters for January 2000 analyses
- 01/26/00 GGTR measures, purges and samples monitoring wells MW1, MW2 and MW3 then submits a groundwater monitoring report
- 10/25/00 GGTR and Gettler-Ryan, Inc. perform joint groundwater monitoring activities; GGTR measures, purges and samples monitoring wells MW1, MW2 and MW3 then submits a groundwater monitoring report
- 04/25/01 GGTR and Gettler-Ryan, Inc. perform joint groundwater monitoring activities; GGTR surveys, measures and samples monitoring wells MW1, MW2 and MW3 then submits a groundwater monitoring report
- 07/10/01 GGTR and Gettler-Ryan, Inc. perform joint groundwater monitoring activities; GGTR measures and samples monitoring wells MW1, MW2 and MW3 then submits a groundwater monitoring report
- 10/08/01 GGTR and Gettler-Ryan, Inc. perform joint groundwater monitoring activities; GGTR monitors and samples MW1, MW2 and MW3.
- 11/28/01 GGTR submits October 2001 Groundwater Monitoring Report to the ACHCSA
- 12/19/01 GGTR submits Work Plan for Additional Soil & Groundwater Investigation to the ACHCSA
- 01/07/02 GGTR monitors and samples MW1, MW2 and MW3.
- 01/13/02 Gettler-Ryan, Inc. monitors and samples GR-MW1 & GR-MW2.
- 02/11/02 GGTR submits January 7, 2001 Groundwater Monitoring Report to the ACHCSA
- 04/08/02 GGTR monitors and samples MW1, MW2 and MW3.**
- 04/08/02 Gettler-Ryan, Inc. monitors and samples GR-MW1 & GR-MW2.**
- 05/15/02 GGTR submits April 8, 2002 Groundwater Monitoring Report to the ACHCSA**

Report Distribution

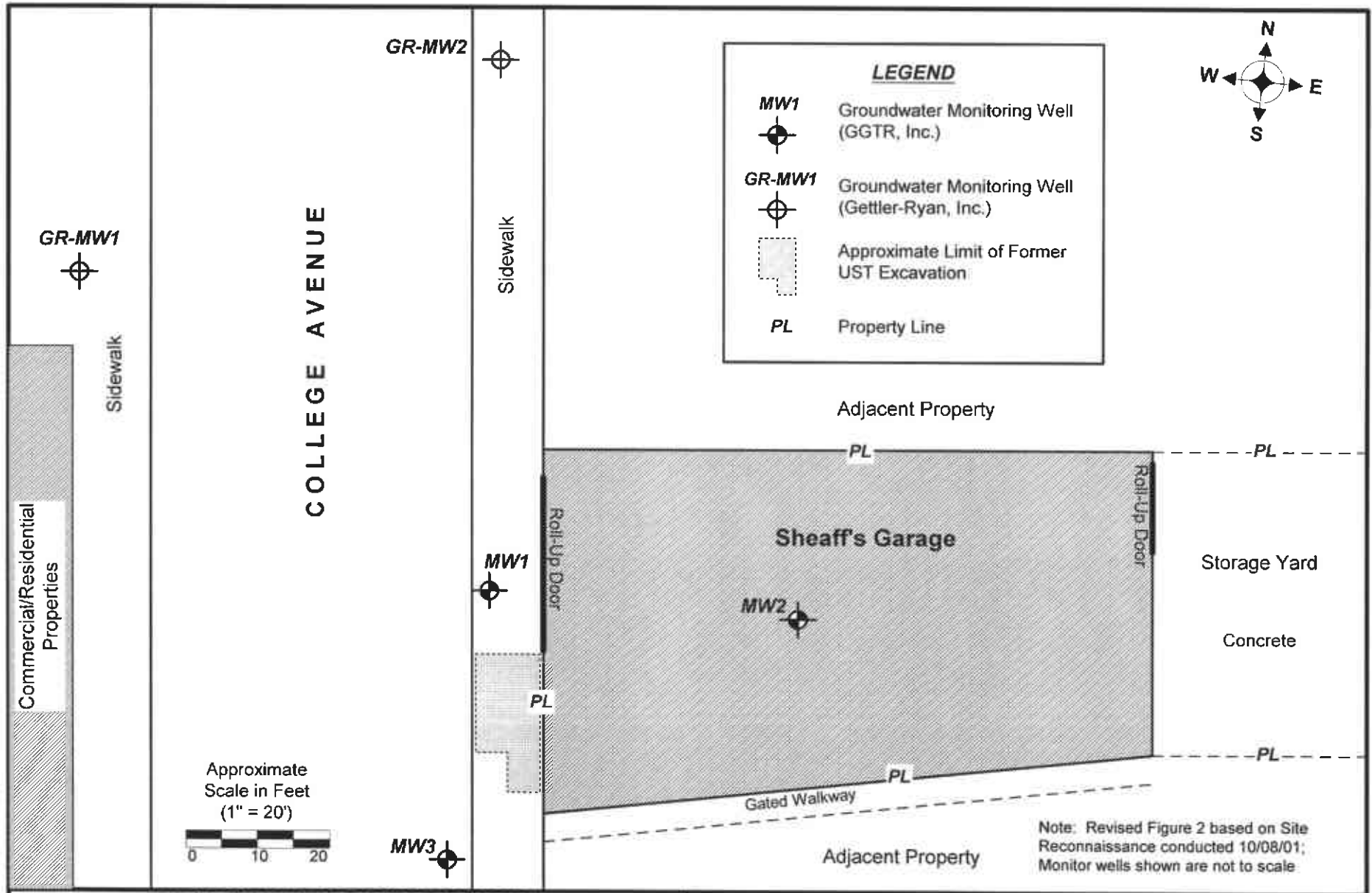
A copy of this quarterly groundwater monitoring report be submitted to the following site representatives:

Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attention: Ms. Eva Chu

Mr. Brian Sheaff
William G. Sheaff Trust
1945 Parkside Drive
Concord, CA 94519



<p>GOLDEN GATE TANK REMOVAL, INC. 255 Shipley Street San Francisco, California 94107 Ph (415) 512-1555 Fx (415) 512-0964</p>	<p>SITE LOCATION MAP Sheaff's Garage 5930 College Avenue Oakland, California</p>		
<p>GGTR Project No. 7335</p>	<p>Dwg: baw/11.01</p>	<p>December 2001</p>	<p>Figure 1</p>



GOLDEN GATE TANK REMOVAL
 255 Shipley Street
 San Francisco, California 94107
 Phone (415) 512-1555 Fax (415) 512-1555

SITE PLAN
 Sheaff's Garage
 5930 College Avenue, Oakland, California

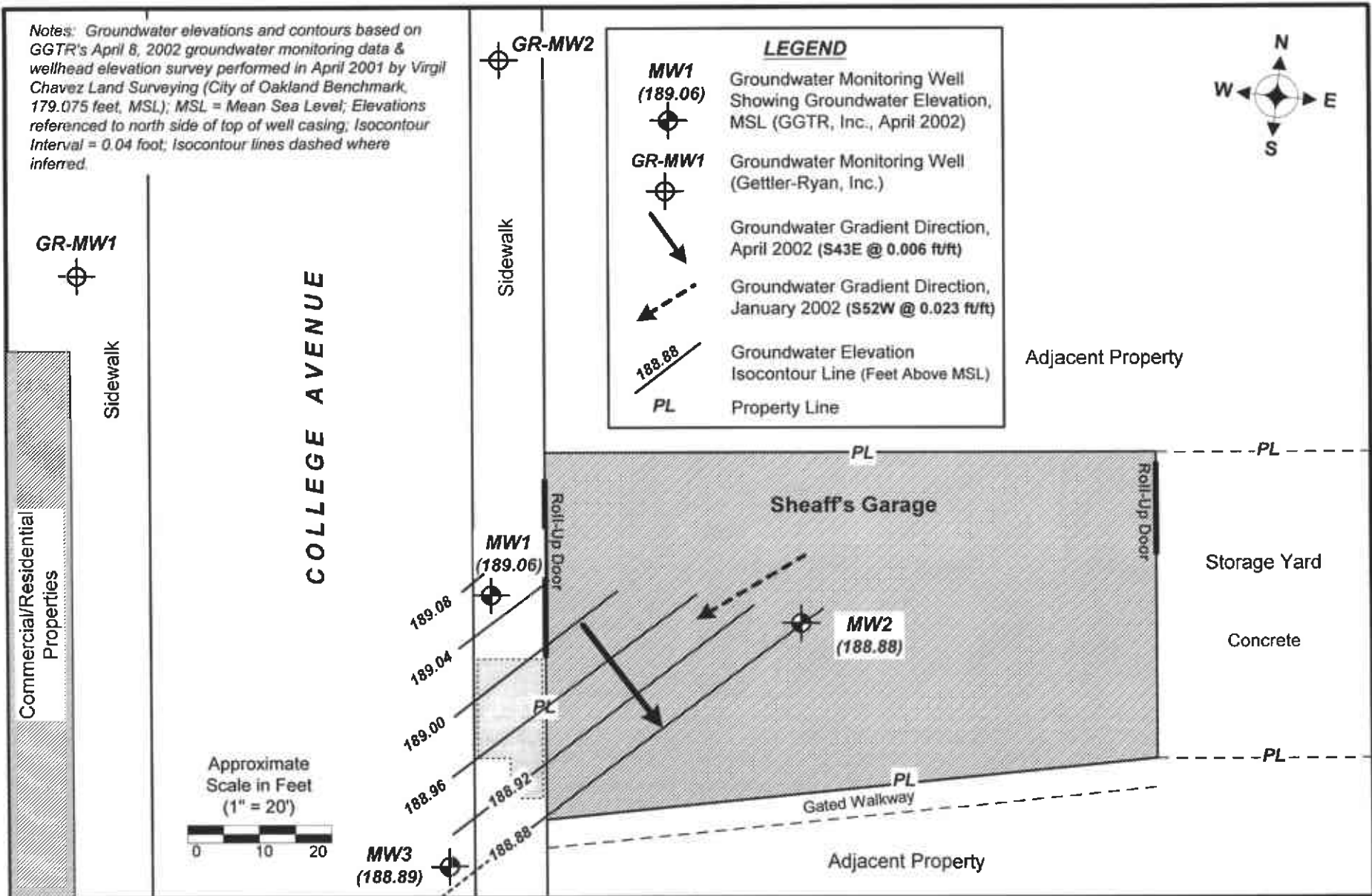
GGTR Project No. 7335

Drawing By: baw/11.01

November 2001

FIGURE 2

Notes: Groundwater elevations and contours based on GGTR's April 8, 2002 groundwater monitoring data & wellhead elevation survey performed in April 2001 by Virgil Chavez Land Surveying (City of Oakland Benchmark, 179.075 feet, MSL); MSL = Mean Sea Level; Elevations referenced to north side of top of well casing; Isocontour Interval = 0.04 foot; Isocontour lines dashed where inferred.



GOLDEN GATE TANK REMOVAL
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 San Francisco, California 94107
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GROUNDWATER POTENTIOMETRIC MAP
 Sheaff's Garage
 5930 College Avenue, Oakland, California

GGTR Project No. 7335

Fn: 7335.F3.GEM.04.02

Revision By: baw/05.02

FIGURE 3

Figure 4 - Historical Groundwater Monitoring Results at 5930 College Avenue

Well ID	Sample Date	Casing Elevation (Feet/MSL)	DTW (Feet/TOC)	Water Elevation (Feet/MSL)	Product/Odor/Sheen	TPH-G (ug/L)	TEPH (ug/L)	VOC (ug/L)	MTBE (ug/L)	B/T/E/X (ug/L)
MW1	06/01/98	50.00 ¹	4.81	45.19	slight sheen	160,000	ND	--	1,900	28,000 / 21,000 / 3,800 / 21,000
	09/10/98	50.00 ¹	7.50	42.50	odor	290,000	ND	--	440	<50 / 25,000 / 7,100 / 32,000
	10/07/99	50.00 ¹	10.04	39.96	odor	85,000	ND	--	1,100	20,000 / 13,000 / 3,800 / 17,000
	01/26/00	50.00 ¹	8.26	41.74	slight sheen	130,000	--	--	470	25,000 / 18,000 / 4,500 / 22,000
	10/25/00	50.00 ¹	10.10	39.90	odor	130,000	--	ND	1,300	23,000 / 12,000 / 3,900 / 18,000
	02/02/01	50.00 ¹	9.61	40.39	odor	128,000	--	--	780	19,000 / 11,000 / 3,800 / 18,000
	04/25/01	195.90	7.39	188.51	odor	120,000	--	--	900	21,000 / 13,000 / 390 / 18,000
	07/10/01	195.90	9.72	186.18	odor	79,000	--	--	660	15,000 / 7,800 / 3000 / 15,000
	10/08/01	195.90	10.88	185.02	sheen/odor	112,000	--	--	374	25,300 / 11,800 / 4,280 / 20,600
	01/07/02	195.90	4.34	191.56	odor	96,100	--	--	596 ³	21,100 / 13,500 / 4,160 / 21,900
	04/08/02	195.90	6.84	189.06	slight odor	111,000	--	361²	814 (679³)	21,200 / 13,400 / 4,230 / 21,000
MW2	10/07/99	51.42 ¹	11.49	39.93	slight/odor	18,000	ND	--	490	3,000 / 1,700 / 1,000 / 3,900
	01/26/00	51.42 ¹	7.85	43.57	none	42,000	--	--	560	9,300 / 2,200 / 2,300 / 7,700
	10/25/00	51.42 ¹	11.57	39.85	slight/odor	31,000	--	ND	500	5,500 / 370 / 1,700 / 2,600
	02/02/01	51.42 ¹	10.77	40.65	odor	36,000	--	--	400	4,300 / 530 / 1,800 / 4,500
	04/25/01	197.28	8.52	188.76	odor	56,000	--	--	460	6,700 / 1700 / 2,600 / 8,200
	07/10/01	197.28	11.05	186.23	odor	39,000	--	--	180	6,200 / 730 / 2,300 / 6,100
	10/08/01	197.28	12.79	184.49	sheen/odor	40,700	--	--	6,460	6,310 / 399 / 2,100 / 5,320
	01/07/02	197.28	4.92	192.36	odor	59,600	--	--	366 ³	10,300 / 3,250 / 4,180 / 14,400
	04/08/02	197.28	8.40	188.88	slight odor	66,700	--	--	583³	10,200 / 2,670 / 3,840 / 13,200
MW3	10/07/99	49.39 ¹	9.67	39.72	none	6,600	ND	--	390	310 / 110 / 430 / 1,000
	01/26/00	49.39 ¹	5.40	43.99	none	3,300	--	--	40	110 / 8 / 100 / 32
	10/25/00	49.39 ¹	9.24	40.15	slight odor	4,500	--	ND	ND	100 / 2 / 120 / 130
	02/02/01	49.39 ¹	8.73	40.66	slight odor	2,900	--	--	35	35 / 3 / 160 / 298
	04/25/01	195.22	6.61	188.61	slight odor	8,400	--	--	56	260 / 33 / 290 / 510
	07/10/01	195.22	8.85	186.37	slight odor	12,000	--	--	35	39 / 10 / 690 / 1600
	10/08/01	195.22	9.75	185.47	sheen/odor	4,913	--	--	52	108 / 4 / 99 / 133
	01/07/02	195.22	4.25	190.97	sheen/odor	7,260	--	--	81.7 ³	723 / 138 / 492 / 887
	04/08/02	195.22	6.33	188.89	odor	11,700	--	--	ND³	540 / 108 / 706 / 1,710

Table Notes on Following Page

Figure 4 - Historical Groundwater Monitoring Results at 5930 College Avenue

NOTES:

- DTW - depth to water relative to top of well casing; ug/L - micrograms per liter (equivalent to parts per billion)
TPH-G - Total Petroleum Hydrocarbons as Gasoline; TEPH - Total Extractable Petroleum Hydrocarbons (EPA Methods 5030/8015M)
Volatile Organic Compounds by EPA Method 8260
MTBE - Methyl Tertiary Butyl Ether; BTEX - Benzene / Toluene / Ethylbenzene / Total Xylenes (EPA Methods 5030/8020)
MSL - Mean Sea Level
TOC - Top of Well Casing (north side)
- ¹ - Arbitrary datum point with assumed elevation of 50 feet used prior to MSL survey on April 26, 2001
 - ² - Fuel oxygenate concentration reported as 1,2-Dichloroethane (lead scavenger)
 - ³ - Concentration confirmed by EPA Methods 5030B/8260A
- ND - not detected above laboratory reporting limit
-- - not analyzed for this constituent

APPENDIX

**GGTR & GETTLER-RYAN, INC.
LABORATORY CERTIFICATES OF ANALYSIS,
CHAIN OF CUSTODY FORMS,
& FIELD DATA SHEETS**

LIQUID WASTE MANIFEST

**QUARTERLY GROUNDWATER MONITORING REPORT
APRIL 8, 2002**

Sheaff's Garage
5930 College Avenue
Oakland, California
STID # 514

GGTR Project No. 7335
May 15, 2002



North State Environmental Laboratory

90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

CA ELAP# 1753

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0470
 Client: Golden Gate Tank
 Project: 7335/5930 COLLEGE AVE. OAKLAND, CA

Date Reported: 04/10/2002

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0470-01 Client ID: 7335-MW1 04/08/2002 W					
Benzene	SW8020F	21200	UG/L		04/10/2002
Ethylbenzene	SW8020F	4230	UG/L		04/10/2002
Gasoline Range Organics	SW8020F	111000	UG/L		04/10/2002
Methyl-tert-butyl ether	SW8020F	*814	UG/L		04/10/2002
Toluene	SW8020F	13400	UG/L		04/10/2002
Xylenes	SW8020F	21000	UG/L		04/10/2002
Sample: 02-0470-02 Client ID: 7335-MW2 04/08/2002 W					
Benzene	SW8020F	10200	UG/L		04/10/2002
Ethylbenzene	SW8020F	3840	UG/L		04/10/2002
Gasoline Range Organics	SW8020F	66700	UG/L		04/10/2002
Methyl-tert-butyl ether	SW8020F	*583	UG/L		04/10/2002
Toluene	SW8020F	2670	UG/L		04/10/2002
Xylenes	SW8020F	13200	UG/L		04/10/2002
Sample: 02-0470-03 Client ID: 7335-MW3 04/08/2002 W					
Benzene	SW8020F	540	UG/L		04/09/2002
Ethylbenzene	SW8020F	706	UG/L		04/09/2002
Gasoline Range Organics	SW8020F	11700	UG/L		04/09/2002
Methyl-tert-butyl ether	SW8020F	*ND	UG/L		04/09/2002
Toluene	SW8020F	108	UG/L		04/09/2002
Xylenes	SW8020F	1710	UG/L		04/09/2002

* MTBE Confirmed by GC/MS method 8260B



North State Environmental Laboratory

90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560 CA ELAP# 1753

C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 02-0470
 Client: Golden Gate Tank
 Project: 7335/5930 COLLEGE AVE. OAKLAND, CA

Date Reported: 04/10/2002

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Reporting Limit	Unit	Blank	Avg MS/MSD Recovery	RPD
Gasoline Range	SW8020F	50	UG/L	ND	94/102	8
Benzene	SW8020F	0.5	UG/L	ND	118/102	15
Toluene	SW8020F	0.5	UG/L	ND	87/84	4
Ethylbenzene	SW8020F	0.5	UG/L	ND	95/93	2
Xylenes	SW8020F	1.0	UG/L	ND	96/91	5
Methyl-tert-butyl	SW8020F	0.5	UG/L	ND	90/89	1

ELAP Certificate NO:1753

Reviewed and Approved

John A. Murphy, Laboratory Director



North State Environmental Laboratory

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CA ELAP# 1753

C E R T I F I C A T E O F A N A L Y S I S

Job Number: 02-0470

Client : Golden Gate Tank

Project : 7335/5930 COLLEGE AVE. OAKLAND, CA

Date Sampled : 04/08/2002

Date Analyzed: 04/10/2002

Date Reported: 04/10/2002

Volatile Organics by GC/MS Method 8260

Laboratory Number	02-0470-01
Client ID	7335-MW1
Matrix	W
Analyte	UG/L
Methyl-tert-butyl ether	679
tert-Butyl ethyl ether	ND<100
tert-Amyl methyl ether	ND<100
Di-isopropyl ether (DIPE)	ND<100
tert-Butyl alcohol	ND<5000
1,2-Dichloroethane	361
1,2-Dibromoethane	ND<100
Ethanol	ND<10000
SUR-Dibromofluoromethane	101
SUR-Toluene-d8	115
SUR-4-Bromofluorobenzene	120



North State Environmental Laboratory

90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

CA ELAP#1753

CERTIFICATE OF ANALYSIS

Job Number: 02-0470

Client : Golden Gate Tank

Project : 7335/5930 COLLEGE AVE. OAKLAND, CA

Date Sampled : 04/08/2002

Date Analyzed: 04/10/2002

Date Reported: 04/10/2002

Volatile Organics by GC/MS Method 8260 Quality Control/Quality Assurance Summary

Laboratory Number	02-0470	MS/MSD	RPD	Recovery	RPD
Client ID	Blank	Recovery		Limit	Limit
Matrix	W	W			
Analyte	Results UG/L	%Recoveries			
Ethanol	ND<100				
Methyl-tert-butyl ether	ND<1				
Di-isopropyl ether (DIPE)	ND<1				
tert-butyl Alcohol	ND<50				
tert-Butyl ethyl ether	ND<1				
tert-Amyl methyl ether	ND<1				
1,1-Dichloroethene	ND<1	66/70	6	61-121	21
1,2-Dichloroethane	ND<1				
Benzene	ND<1	122/110	10	74-135	21
1,2-Dibromoethane	ND<1				
Trichloroethene	ND<2	108/94	14	69-129	20
Toluene	ND<1	138/116	17	61-141	19
Chlorobenzene	ND<2	114/110	4	70-139	19
SUR-Dibromofluoromethane	97	106/99	7	67-129	21
SUR-Toluene-d8	107	114/107	6	72-119	16
SUR-4-Bromofluorobenzene	104	118/107	10	78-121	19

Reviewed and Approved

John A. Murray
Laboratory Director



North State Environmental Analytical Laboratory

90 South Spruce Avenue, Suite W, South San Francisco, CA 94080

Phone: (650) 266-4563 Fax: (650) 266-4560

02-0470

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 1 of 1

Apr 10 02 03:58P

Client: <u>COLOS LATE TASK REMOVAL, INC.</u>	Report to: <u>BRETT WHEELER</u>	Phone: <u>415.512.1555</u>	Turnaround Time <u>A.S.A.P.</u>
Mailing Address: <u>2555 SKIDLEY ST. S.F., CA 94107</u>	Billing to: <u>SAME</u>	Fax: <u>415.512.0764</u>	
		PO# / Billing Reference: <u>7335</u>	Date: <u>01/08/02</u>
			Sampler: <u>B. WHEELER</u>

Project / Site Address: <u>7335 5930 COLLEGE AVE. OAKLAND, CA</u>					Analysis Requested								Comments / Hazards
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TOP-HAT (5030/8030)	STRIP/MTB (5030/8030)							
<u>7335-MW1</u>	<u>WATER</u>	<u>4 40ML VOLS</u>	<u>40% HCL</u>	<u>4/3/02 1510</u>	<u>X</u>	<u>X</u>							
<u>7335-MW2</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1440</u>	<u>X</u>	<u>X</u>							
<u>7335-MW3</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1520</u>	<u>X</u>	<u>X</u>							
<u>① ANALYZE GROUNDWATER SAMPLE W/ HIGHEST MTBE CONCENTRATION FOR FULL OXYGENATIVES (EPA 8260B)</u> <u>② CONFIRM ALL MTBE CONCENTRATIONS > ND BY EPA 8260B</u> <u>③ REPORT IN EDI5 FORMAT TO E6TIRDATA@ADL.COM</u>													

Relinquished by: <u>B. A. Wheeler</u>	Date: <u>4/10/02</u> Time: <u>2:00</u>	Received by: <u>[Signature]</u>	Lab Comments <u>4C</u>
Relinquished by:	Date: _____ Time: _____	Received by:	
Relinquished by:	Date: _____ Time: _____	Received by:	



ANALYTICAL RESULTS

Prepared for:

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

Prepared by:

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

RECEIVED

APR 23 2002

GETTLER-RYAN INC.
GENERAL CONTRACTOR

SAMPLE GROUP

The sample group for this submittal is 803755. Samples arrived at the laboratory on Friday, April 12, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description

Client Description	NA	Water
QA-T-020408		
MW-1-W-020408	Grab	Water
MW-2-W-020408	Grab	Water

Lancaster Labs Number

3804294
3804295
3804296

METHODOLOGY

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

1 COPY TO Delta C/O Gettler-Ryan

Attn: Deanna L. Harding

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

Respectfully Submitted,

Steven A. Skiles
Steven A. Skiles
Sr. Chemist



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



Lancaster Laboratories Sample No. WW 3804294

Collected: 04/08/2002 00:00

Account Number: 10905

Submitted: 04/12/2002 09:45

Chevron Products Company

Reported: 04/19/2002 at 21:23

6001 Bollinger Canyon Road

Discard: 05/20/2002

Building L PO Box 6004

QA-T-020408

NA

Water

San Ramon CA 94583-0904

Facility# 209339 Job# 386521

GRD

5940 COLLEGE-OAKLAND

NA

QA

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

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline	1	04/13/2002 15:36	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/13/2002 15:36	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/13/2002 15:36	John B Kiser	n.a.

#=Laboratory Method Detection Limit Exceeded Target detection limit
N.D.=Not detected above Reporting Limit



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



Lancaster Laboratories Sample No. WW 3804295

Collected: 04/08/2002 10:23 by FT

Account Number: 10905

Submitted: 04/12/2002 09:45

Chevron Products Company

Reported: 04/19/2002 at 21:23

6001 Bollinger Canyon Road

Discard: 05/20/2002

Building L PO Box 6004

MW-1-W-020408

Grab

Water

San Ramon CA 94583-0904

Facility# 209339 Job# 386521

GRD

5940 COLLEGE-OAKLAND

NA

NA

M1339

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	670.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
	Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D. #	2.0	ug/l	1
00778	Ethylbenzene	100-41-4	N.D. #	1.0	ug/l	1
00779	Total xylenes	1330-20-7	5.6	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

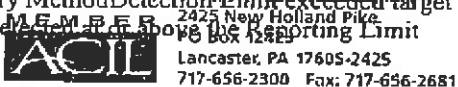
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

Due to the presence of interferences near their retention time, normal reporting limits were not attained for toluene and ethylbenzene. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferences.

State of California Lab Certification No. 2116

Laboratory Chronicle

#=Laboratory Method Detection Limit (MDL) target detection limit
 N.D.=Not detected or above the Reporting Limit





Lancaster Laboratories

Where quality is a science.

Lancaster Laboratories Sample No. WW 3804295

Collected: 04/08/2002 10:23 by FT

Account Number: 10905

Submitted: 04/12/2002 09:45

Chevron Products Company

Reported: 04/19/2002 at 21:23

6001 Bollinger Canyon Road

Discard: 05/20/2002

Building L PO Box 6004

MW-1-W-020408

Grab

Water

San Ramon CA 94583-0904

Facility# 209339 Job# 386521

GRD

5940 COLLEGE-OAKLAND

NA

NA

111339

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/14/2002 06:08	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/14/2002 06:08	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2002 06:08	John B Kiser	n/a.

#=Laboratory Method Detection Limit Exceeded Target detection limit
N.D.=Not detected or above the Reporting Limit



2425 New Holland Pike
PO Box 12823
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3804296

Collected: 04/08/2002 11:35 by FT

Account Number: 10905

Submitted: 04/12/2002 09:45

Chevron Products Company

Reported: 04/19/2002 at 21:24

6001 Bollinger Canyon Road

Discard: 05/20/2002

Building L PO Box 6004

MW-2-W-020408

Grab

Water

San Ramon CA 94583-0904

Facility# 209339 Job# 386521

GRD

5940 COLLEGE-OAKLAND

NA

NA

M2339

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	4.000.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	70.	0.50	ug/l	1
00777	Toluene	108-88-3	1.7	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	17.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	17.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/14/2002 06:40	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/14/2002 06:40	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2002 06:40	John B Kiser	n.a.

#=Laboratory Method Detection Limit
 N.D.=Not detected or above the Reporting Limit



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



Lancaster Laboratories

Where quality is a science.

Lancaster Laboratories Sample No. WW 3804296

Collected: 04/08/2002 11:35 by FT

Account Number: 10905

Submitted: 04/12/2002 09:45

Reported: 04/19/2002 at 21:24

Discard: 05/20/2002

MW-2-W-020408

Grab

Water

Chevron Products Company

6001 Bollinger Canyon Road

Building L PO Box 6004

San Ramon CA 94583-0904

Facility# 209339 Job# 386521

5940 COLLEGE-OAKLAND

NA

NA

GRD

M2339

#= Laboratory Method Detection Limit Exceeded Target detection limit

N.D.=Not detected Above the Reporting Limit



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



Client Name: Chevron Products Company
 Reported: 04/19/02 at 09:24 PM

Group Number: 803755

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02103A16A		Sample number(s): 3804294						
Benzene	N.D.	0.5	ug/l	112	111	80-118	1	30
Toluene	N.D.	0.5	ug/l	114	112	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	110	108	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	111	110	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	97	95	78-127	3	30
TPH-GRO - Waters	N.D.	50.	ug/l	104	107	76-126	3	30
Batch number: 02103A16B		Sample number(s): 3804295-3804296						
Benzene	N.D.	0.5	ug/l	112	111	80-118	1	30
Toluene	N.D.	0.5	ug/l	114	112	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	110	108	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	111	110	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	97	95	78-127	3	30
TPH-GRO - Waters	N.D.	50.	ug/l	104	107	76-126	3	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG MAX	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02103A16A		Sample number(s): 3804294						
Benzene	117		77-131					
Toluene	117		80-128					
Ethylbenzene	112		76-132					
Total Xylenes	112		76-132					
Methyl tert-Butyl Ether	100		61-144					
TPH-GRO - Waters	105		74-132					
Batch number: 02103A16B		Sample number(s): 3804295-3804296						
Benzene	117		77-131					
Toluene	117		80-128					
Ethylbenzene	112		76-132					
Total Xylenes	112		76-132					
Methyl tert-Butyl Ether	100		61-144					
TPH-GRO - Waters	105		74-132					

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
 Batch number: 02103A16A
 Trifluorotoluene-F

Trifluorotoluene-F

3804294	76	99
Blank	79	99

*- Outside of specification

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



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



Client Name: Chevron Products Company
 Reported: 04/19/02 at 09:24 PM

Group Number: 803755

Surrogate Quality Control

LCS	105	98
LCSD	100	98
MS	124	97

Limits: 67-135 71-130

Analysis Name: TPH-GRO - Waters
 Batch number: 02103A16B

	Trifluorotoluene-F	Trifluorotoluene-P
3804295	207*	121
3804296	455*	123
Blank	77	98
LCS	105	98
LCSD	100	98
MS	124	97

Limits: 67-135 71-130

*- Outside of specification

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



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

Chevron California Region Analysis Request/Chain of Custody



041002-007

Acct. #: 10905 For Lancaster Laboratories use only
 Sample #: 3804294-6 SCR#:

May-02-02

01:35pm

From Gattler-Ryan Inc

+925 551 7898

T-246

P-003/011

F-483

Facility #: <u>209339</u> Job # <u>386521</u> Global ID# <u>NA</u> Site Address: <u>5940 COLLEGE AVE., OAKLAND, CA</u> Chevron PM: <u>Tom Bauhs</u> Lead Consultant: <u>Delta/G-R</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding</u> (<u>Deanna@grinc.com</u>) Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>FRANK TERNONI</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____		Matrix: Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested Preservation Codes H H BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> TPH 8015 MOD GRO <input type="checkbox"/> TPH 8015 MOD DRO <input type="checkbox"/> Silicon Gel Cleanup <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input checked="" type="checkbox"/> Run <u>5</u> oxy s on all hits			
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421	Comments / Remarks
<u>QA</u>	<u>4.8.02</u>				<u>W</u>				<u>2</u>	<u>X</u>	<u>X</u>						
<u>MW-1</u>	<u>↓</u>	<u>1023</u>	<u>X</u>		<u>↓</u>				<u>6</u>	<u>X</u>	<u>X</u>						
<u>MW-2</u>	<u>↓</u>	<u>1135</u>	<u>X</u>		<u>↓</u>				<u>6</u>	<u>X</u>	<u>X</u>						
Turnaround Time Requested (TAT) (please circle) STD. TAT <u>24</u> hour 72 hour 48 hour 24 hour 4 day 5 day										Relinquished by: <u>Frank Ternoni</u> Date: <u>4.8.02</u> Time: _____ Relinquished by: <u>Dennis Vance</u> Date: <u>4/10/02</u> Time: <u>1500</u> Relinquished by: <u>Walter Auster</u> Date: <u>4/10/02</u> Time: _____ Relinquished by: <u>Walter Auster</u> Date: <u>4/10/02</u> Time: _____ Relinquished by: <u>Airborne</u> Date: <u>4-11-02</u> Time: _____ Relinquished by: <u>Dennis Vance</u> Date: <u>4/11/02</u> Time: <u>09:11</u>		Received by: <u>Dennis Vance</u> Date: <u>4/10/02</u> Time: <u>1500</u> Received by: <u>Walter Auster</u> Date: <u>4/10/02</u> Time: _____ Received by: <u>Airborne</u> Date: <u>4-11-02</u> Time: _____ Received by: <u>Dennis Vance</u> Date: <u>4/11/02</u> Time: <u>09:11</u>					
Data Package Options (please circle if required) QC Summary Type I — Full Type VI (Raw Data) <input type="checkbox"/> Coeff Deliverable not needed WIP (RWQCB) Disk										Relinquished by Commercial Carrier: UPS FedEx Other <u>Airborne</u>		Received by: <u>Dennis Vance</u> Date: <u>4/11/02</u> Time: <u>09:11</u>					
Temperature Upon Receipt: <u>32.5</u> °C										Custody Seals Intact? <u>Yes</u> No		_____					



GROUNDWATER WELL MONITORING FIELD DATA SHEET

Project Number 7335 Site Name 5930 COLLIERE DR. OAKLAND, CA Date 4/8/02
 Well Number MW1 Sampler BAW

Notes, including field conditions, persons on site, methods used, weather OVERCAST SKY'S,
LIGHT WIND; MONITOR + RECORD DTW IN MW1
THROUGHOUT MW-3; PURGE ≥ 3 WELL CASING VOLUMES OF
CW FROM EXIT WELL. TRANSFER PUMP HEAD TO
50'-GAL DRUM, COLLECT CW SAMPLES (STYL)
DISPOSABLE BATTERY

Well Depth 19.5 ft. time of sample 1510 Depth to water 6.84 ft (1317)
 Well Diameter 2" sheen or free product NONE

Volume Height of water	Diameter	Volume	Number of well volumes	total gallons to purge
	2 inch	4 inch		
Column <u>7.66</u> ft.	(0.16)	0.65	<u>1.2</u> gals.	<u>3</u> gal

Quality of purge water CLEAR; SLIGHT HYDROCARBON ODR; NO SHEEN

TIME	VOLUME PURGED	pH	CONDUCTIVITY	TEMP	NOTES
<u>1450</u>	<u>0</u> gals	<u>7.77</u>	<u>678</u>	<u>61.6</u>	<u>CLEAR, SLIGHT ODR</u>
<u>1452</u>	<u>1</u> gals	<u>7.60</u>	<u>705</u>	<u>62.2</u>	<u>"</u>
<u>1454</u>	<u>2</u> gals	<u>7.34</u>	<u>710</u>	<u>62.3</u>	<u>"</u>
<u>1456</u>	<u>3</u> gals	<u>7.16</u>	<u>707</u>	<u>62.4</u>	<u>"</u>
<u>1458</u>	<u>4</u> gals	<u>7.08</u>	<u>715</u>	<u>62.8</u>	<u>"</u>
	gals				
	gals				
	gals				

Additional comments 80% Recovery Level @ 3.1 ft. TWC.
DTW @ 7.75 @ 1505 (OK TO SAMPLE)
Total Volume of Waste Water Generated: ~25 Gals.



GROUNDWATER WELL MONITORING FIELD DATA SHEET

Project Number 7335 Site Name 5930 COLLEGE AVE., OAK, CA Date 4/3/02
 Well Number MW2 Sampler BAL

Notes, including field conditions, persons on site, methods used, weather SEE MW1

Well Depth 19.8 ft., time of sample 1440 Depth to water 840 ft (1815) T.O.C.
 Well Diameter 2 sheen or free product NONE

Volume Height of water	Diameter		Volume	Number of well volumes	total gallons to purge
	2 inch	4 inch			
Column <u>1140 ft.</u>	(0.16)	0.65	<u>1.8</u> gals.	<u>3</u>	<u>5.5</u> gal

Quality of purge water SLEWING TO RISE TO CLEAR; SLIGHT HYDRO. OOR

TIME	VOLUME PURGED	pH	CONDUCTIVITY	TEMP	NOTES
<u>1404</u>	<u>0</u> gals	<u>7.43</u>	<u>728</u>	<u>62.0</u>	<u>SLIGHTLY FINE; OOR</u>
<u>1406</u>	<u>1</u> gals	<u>7.18</u>	<u>748</u>	<u>62.9</u>	<u>"</u>
<u>1408</u>	<u>2</u> gals	<u>7.07</u>	<u>754</u>	<u>63.3</u>	<u>DISCOLORED; OOR</u>
<u>1410</u>	<u>3</u> gals	<u>6.99</u>	<u>762</u>	<u>63.7</u>	<u>"</u>
<u>1412</u>	<u>4</u> gals	<u>6.94</u>	<u>772</u>	<u>63.7</u>	<u>CLEAR</u>
<u>1414</u>	<u>5</u> gals	<u>6.96</u>	<u>768</u>	<u>64.0</u>	<u>"</u>
<u>1416</u>	<u>6</u> gals	<u>6.94</u>	<u>765</u>	<u>64.1</u>	<u>"</u>

Additional comments 30% RECOVERY CHECK @ 10.22 FT. T.O.C.
DTW @ 1450 = 10.19 FT. T.O.C. (OK TO SAMPLE)



GROUNDWATER WELL MONITORING FIELD DATA SHEET

Project Number 7335 Site Name 5930 COLLIERE AVE, DAK Date 4/3/02
 Well Number MW3 Sampler BAW

Notes, including field conditions, persons on site, methods used, weather SIEM MW1

Well Depth 19.2 ft. time of sample 1520 Depth to water 6.33 ft (13:13) T.O.C
 Well Diameter 2" shien or free product NONE

Volume Height of water	Diameter		Volume	Number of well volumes	total gallons to purge
	2 inch	4 inch			
Column <u>12.87 ft.</u>	(0.16)	0.65	<u>2.1 gals.</u>	<u>3</u>	<u>6.3 gal</u>

Quality of purge water SUCCESSFULLY TURBID TO CLEAR; 100% ALUMINUM OXIDE.

TIME	VOLUME PURGED	pH	CONDUCTIVITY	TEMP	NOTES
1330	2 gals	7.61	530	61.2	SUSPENDED SOLIDS; 600R
1334	1 gals	7.03	541	60.8	SUSPENDED SOLIDS; 600R
1336	2 gals	8.55	635	60.3	"
1338	3 gals	8.31	528	60.3	"
1340	4 gals	8.04	528	60.4	CLEAR/600R
1342	5 gals	7.68	552	60.7	"
1344	6 gals	7.72	563	61.1	"
1345	7 gals	7.74	565	61.0	"

Additional comments 20% PROBABLY LEVEL @ 84 FEET TOC
DTW @ 12.7 FT TOC (1350); DTW @ 10.15 @ 1427
DTW @ 8.3 FT TOC (1517) (OK TO SAMPLE)



MONITORING WELL OBSERVATION SUMMARY SHEET

CHEVRON #: 209339

G-R JOB #: 386521

LOCATION: 3940 College Ave.

DATE: 4.8.02

CITY: Oakland, CA

TIME: _____

Well ID	Total Depth	Depth to Water	Product Thickness	TOB or TOC	Comments <small>VOL. ANALYSED</small>
<u>MW-1</u>	<u>20.14</u>	<u>7.45</u>	<u>Ø</u>	<u>TOC</u>	<u>6.5</u>
<u>MW-2</u>	<u>20.10</u>	<u>8.37</u>	<u>Ø</u>	<u>TOC</u>	<u>6.0</u>
					<u>12.5</u>

Comments: _____

Sampler: FT

Assistant: _____

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAL00000314543773		Manifest Document No. 773		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address MR. BRIAN SHEAF 61 DUNBARTON COURT, SAN RAMON, CA 94583						A. State Manifest Document Number 99643728											
4. Generator's Phone 925 823-7441						B. State Generator's ID											
5. Transporter 1 Company Name CLEANWATER ENVIRONMENTAL			6. US EPA ID Number CAR000007013			C. State Transporter's ID (Reserved)											
7. Transporter 2 Company Name						D. Transporter's Phone (510) 476-1740											
9. Designated Facility Name and Site Address ALYISO INDEPENDENT OIL 5002 ARCHER STREET ALYISO, CA 95002						10. US EPA ID Number CAL0000161743											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)						G. State Facility's ID CAL0000161743											
(OIL & WATER) Non-RCRA Hazardous Waste Liquid b. c. d.						12. Containers		13. Total Quantity		14. Unit Wt/Val		L. Waste Number					
						No.		Type						State		EPA/Other	
						001		TT		20075		G		223		NONE	
														State		EPA/Other	
														State		EPA/Other	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above											
15. Special Handling Instructions and Additional Information WEAR PPE Emergency Contacts (510) 476-1740 Attn: Kirk Hayward EKG # 171						CITY: 5130 COLLEGE AVE OAKLAND, CA 94618 INDUSTRY # 703 # 7335											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.																	
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name BRIAN SHEAF				Signature [Signature]				Month 04		Day 23		Year 92					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name MIKE STINE				Signature [Signature]				Month 04		Day 23		Year 02					
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Month		Day		Year					
19. Discrepancy Indication Space																	
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name										Signature		Month		Day		Year	

DO NOT WRITE BELOW THIS LINE.