

QUARTERLY GROUNDWATER MONITORING REPORT October 15, 2003

Sheaff's Garage 5930 College Avenue Oakland, California

ACHCSA Fuel Leak Case No. RO0000377

Prepared For:

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> GGTR Project No. 7335 October 31, 2003

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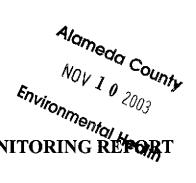
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5930 College Avenue, Oakland, California

Introduction

This report presents the results and findings of the October 15, 2003 groundwater monitoring and sampling activities conducted by Golden Gate Tank Removal, Inc. (GGTR) at 5930 College Avenue in Oakland, California. This was the 12th quarterly monitoring event performed at the site for the three existing monitor wells, MW1 through MW3. Additional soil and groundwater investigation activities were conducted at the site between August 30 and November 1, 2002, under the direction of the Alameda County Health Care Services Agency (ACHCSA), Environmental Protection Division (Local Oversight Program). During this period, quarterly groundwater monitoring activities were performed on October 23, 2003. The ACHCSA has designated the site as Fuel Leak Case No. RO000377. 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. Table 1, Historical Results of Groundwater Sample Analysis & Fluid-Level Data, 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 (GR-MW1 & GR-MW2) are used to evaluate the hydrocarbon concentrations in groundwater at this site.

GGTR and Gettler-Ryan, Inc. has conducted joint monitoring and sampling activities at the associated sites on a quarterly basis since October 2000. As of the April 8, 2002 monitoring event, Gettler-Ryan has decreased their monitoring schedule to a biannual basis. Gettler-Ryan, Inc. was scheduled to perform monitoring and sampling of GR-MW1

& GR-MW2 on October 15, 2003; however, they had to re-schedule activities for a later date in October 2003. Figures 2 and 3 show the location of each Gettler-Ryan well relative to the subject wells at 5930 College Avenue.

Site Location and Description

The subject commercial property is located at 5930 College Avenue, along the east side of College Avenue between Harwood Street and Chabot Road in Oakland, California. The site lies approximately 0.2 mile (1,000 feet) north of Highway 24 and approximately 2.5 miles east of Interstate 80 and the San Francisco Bay. The general location of the site is shown on the attached Figure 1, Site Location Map.

The property is currently occupied by Sheaff's Garage for the service and repair of automobiles, with no active fuel storage or distribution systems. The site is approximately 5,500 square feet in area with about 75% utilized by a covered warehouse/garage and 25% used as an exterior (uncovered) storage yard. The ground surface of the entire property is paved with concrete. The elevation of the site is approximately 195 feet above Mean Sea Level (Figure 1). Figure 2 presents a *Site Plan* showing pertinent site structures and adjacent properties.

The property is relatively flat lying with the topographic relief in the immediate vicinity of the site generally directed toward the southwest (Figure 1). Regional topographic relief appears to be directed toward the west-southwest in the general direction of the San Francisco Bay. One 675-gallon, gasoline UST and one 340-gallon waste oil UST was located beneath the sidewalk at the southwest corner of the site (Figure 2). The tanks were removed by GGTR in August 1996. A brief discussion of the tank removal activities is presented herein.

Site Geology and Hydrogeology

According to a Geologic Map of the San Francisco-San Jose Quadrangle published by the California Department of Conservation, the site is underlain by up to 500 feet of dissected Quaternary alluvium deposited on marine sandstone, shale and conglomerate of the Mesozoic Franciscan Complex and possibly Mesozoic, cretaceous marine sedimentary rocks of the Great Valley Sequence (thicknesses not established). Native subsurface soil encountered at the site during the additional soil and groundwater investigation activities was predominantly a moist, dark yellowish brown, clayey silt up to approximately 7 fbg, overlying a dark yellowish brown and dark greenish gray, silty clay up to approximately 15 fbg. Moist to wet, clayey silt/sand and silty clay lenses extend up to a total explored sample depth of 20 fbg. Soil observed throughout B10 and B11 was predominantly a clayey, sandy silt.

Depth to groundwater, as measured on a quarterly basis in the three onsite monitoring wells (October 1999 through October 2002) ranged between approximately 5.5 and 13 fbg. The average depth to groundwater reported during the current monitoring event was

approximately 11 fbg, with an associated mean groundwater elevation of 185.14 feet. The associated groundwater gradient across the site historically has ranged between 0.005 (July 2001) and 0.032 (October 2002) foot per foot and the flow direction has fluctuated between 11° west of south (October 1999) to 71° east of north (October 2002). The regional groundwater flow in the vicinity of the site is assumed to be towards the west-southwest, in the direction of the San Francisco Bay, and generally following the natural topographic relief of the area. At this time, with no domestic receptor well survey conducted in the vicinity of the site and no risk-based corrective action study performed to date at the site, shallow groundwater beneath the site is considered a potential drinking water source.

The nearest surface water body is Claremont Creek, flowing southwest, with surface water flow ending approximately 0.9 mile northeast of the site. Creek flow then appears to continue southwest via an intermittent underground culvert and an open surface channel, and generally parallels Claremont Avenue towards its intersection with College Avenue, located approximately 0.1 mile (525 feet) north of the site (Figure 1). Lake Temescal, situated at an elevation approximately 200 feet higher than the site, is located approximately 1.1 miles east of the subject property, with effluent flow directed generally southeast.

Groundwater Sampling Field Procedures

On October 15, 2003, GGTR contracted North State Labs (NSL) of South San Francisco, California to monitor and sample MW1 through MW3, 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, NSL 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. NSL then measured and recorded the depth to groundwater and presence of floating product using a Keck® electronic oil/water interface probe. NSL also measured the dissolved oxygen (DO) of the groundwater using a YSI55® DO meter and measured the oxidation-reduction potential in each well to assess the occurrence of biodegradation in shallow groundwater beneath the site. Fluid levels were measured relative to the north side of the top of each well casing to the nearest 0.01 foot.

NSL than 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, NSL 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 than submitted the samples under chain-of-custody protocol to NSL's State-certified, analytical laboratory (CA ELAP #1753) in South San Francisco, California.

Water Sample Analytical Methods

On October 15, 2003, NSL submitted the groundwater samples collected from the three monitoring wells under formal chain of custody command for laboratory analysis of the following fuel constituents:

- Gasoline Range Organics (TPH-G; SW8020F)
- Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX; SW8020F)
- Methyl Tertiary-Butyl Ether (MTBE; SW8020F)
- Volatile Organic Compounds (EPA Method 8260), including lead scavengers 1,2-dibromoethane (EDB) and 1,2-dichloroethane (EDC)
- Fuel Oxygenates (EPA Method 8260)

NSL completed all volatile organic analyses by October 17, 2003, which is in conformance with the 14-day required time limit for analysis. NSL submitted all analytical data in electronic deliverable 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 historical monitoring events at the site are presented in Table 1. A copy of the Laboratory Certificates of Analysis, associated Chain of Custody Record, and Fluid-Level Monitoring and Well Purge/Sampling Data Sheets and s are included in the Appendix.

Quality Assurance / Quality Control

Quality Assurance and Quality Control details are shown on the laboratory Certificates 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.

Groundwater Monitoring Results

The groundwater elevations measured relative to the top of well casing in MW1 through MW3 ranged between 184.90 (MW2) and 185.42 (MW3) feet above Mean Sea Level. The associated groundwater gradient calculated for the October 15, 2003 monitoring event was 1.0 foot / 100 feet (0.01 ft/ft) directed approximately 28° east of north. The groundwater gradient and associated elevation isocontour lines are shown on Figure 3.

The table shown below lists the historical data for MW1 through MW3 on mean groundwater elevation, flow direction, and groundwater slope for the site. 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
07/09/02	186.63	51° west of north	0.7 foot / 100 feet
10/23/02	184.50	71° east of north	3.2 foot / 100 feet
10/15/03	185.14	28° east of north	1.0 foot / 100 feet

Discussion of Monitoring Results

The mean groundwater elevation measured at the site during this event was approximately 0.64 feet lower than that measured during the monitoring event in October 2002 and comparable to the mean groundwater elevation reported in October 2001 (184.99 feet). Based on the relative groundwater elevation data recorded for this event, the groundwater flow direction was directed approximately 28° east of north, presenting a counterclockwise shift of approximately 43° toward the north, as compared to the previous monitoring event. This groundwater flow direction has fluctuated significantly since the installation of the monitor wells in October 2001, however, the current northeast flow direction is generally similar to those previously recorded during the months of October since 2000. The calculated gradient slope for this event (0.01 foot/foot) has decreased slightly since the previous monitoring event (0.032 foot/foot) and but remains relatively steep as compared to the previous associated events in October 2000 through 2002.

Shallow, unconfined groundwater in the vicinity of the former UST cavity and monitored area (October 2003) was characterized by moderate dissolved oxygen concentrations ranging between 16.6% (1.24 milligrams per liter, mg/L) in MW1 and 24.4% (2.31 mg/L) in MW3, signifying that aerobic biodegradation is potentially occurring beneath the site. Although not measured insitu as was performed previously (October 2002), the most current DO concentrations initially measured in each well have significantly increased since the October 2002 event. The groundwater in each well was also initially monitored for Oxidation-Reduction Potential (ORP), which ranged between -081 millivolts in MW3

to -039 millivolts in MW2. This ORP range of values signifies that anaerobic biodegradation (iron reduction range) may potentially occurring within the shallow groundwater once the dissolved oxygen is depleted. The groundwater was also characterized by an average pH, specific conductivity, and temperature of 7.01, 716 micromhos per centimeter (µmhos/cm), and 66.1 Fahrenheit degrees, respectively.

Neither free product nor surface sheen was present in the purge water or groundwater samples in MW1 through MW3 during the October 2003 monitoring event; however, gasoline-like hydrocarbon odors were observed in the purge water removed from MW2 only.

Results of Groundwater Sampling and Laboratory Analysis

The table shown below summarizes the laboratory analytical results of groundwater samples collected during the October 15, 2003 monitoring event. A copy of the associated Laboratory Certificate of Analysis and the Chain-of-Custody Record is in the Appendix. Documentation of the well purging and sampling activities is contained in the Field Data Sheets of the Appendix.

October 15, 2003 Groundwater Sampling Results

Well	Sample ID	TPH-G (ug/L)	BTEX (ug/L)	MTBE (ug/L)	VOC/OXY (ug/L)
MW1	7335-MW1	90,700	17,800 / 4,740 / 3,150 / 13,900	534 (724*)	47,837 / 724*
MW2	7335-MW2	11,300	2,660 / 51 / 1,180 / 1,220	264 (322*)	6,642 / 322*
MW3	7335-MW3	3,040	91.3 / 8.4 / 69.9 / 148	ND (ND*)	436 / ND*
GR-MW1	MW-1-W	NA	NA	NA	NA
GR-MW2	MW-2-W	NA	NA	NA	NA

Notes:

TPH-G - Total Petroleum Hydrocarbons as Gasoline (EPA Methods 5030/8020F)

BTEX - Benzene / Toluene / Ethylbenzene / Xylenes (EPA Methods 5030/8020F)

MTBE - Methyl Tertiary Butyl Ether (EPA Method 5030/8020F)

VOC – Volatile Organic Compounds (EPA Method 8260; Total Concentration)

OXY – Fuel Oxygenates (EPA Method 8260)

ug/L - micrograms per liter (equivalent to parts per billion - ppb)

ND - not detected above laboratory reporting limit (See QC/QA, Lab Report)

NA - not analyzed during this event

* - MTBE concentration as confirmed by VOC & Fuel Oxygenate analysis

Total Petroleum Hydrocarbons as gasoline (TPH-G) increased in monitor well MW1 from 54,100 to 90,700 micrograms per liter (ug/L), as compared to the October 2002 monitoring event. The concentration of TPH-G reported in MW2 decreased from 13,300 to 11,300 ug/L as compared to the last monitoring event and continues to demonstrate a general decreasing trend since the April 2002 event (59,600 ug/l). The concentration of

TPH-G measured in MW3 remained relatively the same since the July 2002 monitoring event, only increasing slightly from 2,320 to 3,040 ug/L. The current TPH-G concentration reported in each well continues to exceed the California Regional Water Quality Control Board's (CRWQCB) July 2003 Tier 1 Environmental Screening Level (ESL) listed for this constituent, where shallow groundwater ≤10 feet below grade (fbg) beneath the site potentially is a domestic source of drinking water (100 ug/L). No CRWQCB − Municipal Supply Water Quality Objective (MSWQO) or Maximum Contaminant Level (MCL) currently exists for this constituent.

The concentration of methyl tertiary-butyl ether (MTBE) decreased in MW1 from 1,010 to 534 ug/L (724 ug/L, as confirmed by EPA Method 8260), and in MW2, from 322 to 264 ug/L (322 ug/L; EPA Method 8260) as compared to the October 2002 event. The MTBE concentrations measured in MW2 since January 2002 appear to be relatively stable, fluctuating only slightly between 264 ug/l (October 2003) to 583 ug/l (April 2002). The highest reported concentration during this period occurred when the depth to groundwater was approximately 8.5 feet below grade. The MTBE concentration measured in MW3 has remained below the laboratory reporting limit (<0.5 ug/L) since October 2002, and continues to demonstrate a general decreasing trend. The MTBE concentrations measured in both MW1 and MW2 continue to exceed the CRWQCB's July 2003 Tier 1 ESL and MCL listed for this chemical constituent (5 ug/L).

The benzene concentration measured in the groundwater sample collected in MW1 through MW3 increased from 10,800 to 17,800 ug/L, from 2,420 to 2,660 ug/L, and from 46.8 to 91.3 ug/l respectively, as compared with the October 2002 event. The concentrations of toluene, ethylbenzene, and total xylenes measured in MW1 have also increased slightly since the October 2002. The concentrations of toluene, ethylbenzene, and total xylenes measured in MW2 and MW3 have remained relatively stable since the July 2002 event. The groundwater BTEX concentrations measured in MW1 through MW3 have generally shown a decreasing trend since the January and/or April 2002.

The total concentration of Volatile Organic Compounds (VOCs) measured in MW1 slightly increased since the October 2002 event, due to the significant increase in benzene and total xylene concentrations (EPA Method 8260) measured in this well during the current event (See Table 1 Notes). The concentrations of 1,2-Dichlorethane (EDC) and 1,2-dibromoethane (EDB), reported in MW1 through MW3 were below the respective laboratory reporting limit for each VOC constituent (≤100 ug/L for EDC and <50 ug/L for EDB). The groundwater samples collected in MW1 and MW2 contained 724 and 322 ug/L MTBE, as confirmed by both VOC and fuel oxygenate analyses. All other fuel oxygenate concentrations in MW1 through MW3, were below the respective laboratory reporting limit (<10,000 ug/L).

As requested by the ACHCSA in their most recent letter dated September 8, 2003, groundwater monitoring should continue at the site on a quarterly basis. All quarterly

groundwater samples should be analyzed for TPH-G, BTEX, and MTBE by SW8020F, and VOCs by EPA Method 8260. Based on the results of Fuel Oxygenates analyses reported in well groundwater samples collected in October 2003, such constituents do not appear to be chemicals of concern at the site, and do not need to be incorporated into the quarterly well monitoring/sampling schedule at this time. Monitoring of DO and ORP should be continued to further evaluate the biodegradation potential in the shallow groundwater beneath the site.

GeoTracker AB2886 EDF Upload

In general accordance with State Assembly Bill 2886, GGTR uploaded the fluid-level monitoring data associated with the October 15, 2003 event in electronic deliverable format to the State Water Resources Control Board's GeoTracker Database System. The GeoTracker Upload Confirmation Number is 7621800065. An AB2886 Electronic Delivery confirmation report copy (GEO_Well) corresponding to submittal title Fluid-Level Monitoring Data (MW1-MW3 is included in the Appendix.

GGTR also uploaded all groundwater sample analytical results associated with the October 15, 2003 event in electronic deliverable format to the State GeoTracker Database System. The GeoTracker Upload Confirmation Number is 1141819119. A confirmation report copy corresponding to Lab Number/Submittal Title 03-1426: 10/15/03 GW Analytical Data (MW1-MW3) is included in the Appendix.

Waste Management

The drummed well purge and equipment wash and rinse water (@ 15 to 20 gallons) generated during the October 2003 monitoring event was transferred directly to a D.O.T.-approved, 55-gallon drum. The drum was appropriately labeled and stored onsite in a secure area. To date, the drum remains onsite for storage use with future quarterly monitoring events and/or additional investigation activities. Upon transport and disposal of the drummed waste liquid to a State-licensed recycling facility, proper waste manifest documentation will be submitted to the ACHCSA.

Environmental Site History & Chronology

In August 1996, GGTR removed two underground storage tanks (USTs) and associated fuel dispenser from the site at the locations shown in Figure 2. The following table presents a summary of the tank designations, size, type of construction and contents:

Designation	Construction	Diameter (Feet)	Length (Feet)	Volume (Gallons)	Contents
TANK 1	Steel	4	7	675	Gasoline
TANK 2	Steel	4	3.5	340	Waste Oil

GGTR removed the residual fuel from the subsurface product piping (left in place), thoroughly flushed and drained the piping, and capped both ends. GGTR over-excavated the gasoline-contaminated soil surrounding the former UST location. Analytical results of soil samples collected during the UST removal and over-excavation activities at the site are summarized in the attached Table 1. The tank removal and over-excavation activities are documented in GGTR's *Tank Removal Report*, dated October 11, 1996.

Between May 1998 and October 1999, as requested by the ACHCSA, GGTR performed a preliminary subsurface soil boring investigation at the subject property and subsequently installed three groundwater monitor wells in the vicinity of the former UST cavity. Soil borings B1 through B3 were advanced immediately south, east, and west, respectively, of the former UST cavity at the locations shown in Figure 2. Following review and interpretation of all field and soil sample analytical data collected during these activities, additional soil borings (B4 through B6) were then advanced at the site to further assess the extent of contamination in soil and the potential impact to groundwater. These borings were converted to 2-inch-diameter groundwater monitoring wells, MW1 through MW3. The locations of the soil borings/monitor wells are shown in Figure 2.

In collaboration with Gettler-Ryan, Inc. of Dublin, California, which is conducting a separate groundwater investigation adjacent to the subject property (5940 College Avenue; Former Chevron Station), GGTR has jointly monitored and sampled each well on a quarterly basis between January 2000 and October 2002. The locations of the subject monitor wells as well as Gettler-Ryan's monitoring wells are shown on Figure 2.

Based on the residual elevated concentrations of gasoline-range hydrocarbons measured in the groundwater samples collected during the April 2001 quarterly monitoring activities, the ACHCSA, in a letter dated July 9, 2001, requested a work plan to assess whether any additional contaminant sources may potentially exist onsite that may be contributing to the elevated hydrocarbon concentration in groundwater. GGTR submitted the work plan on December 19, 2001, which was subsequently approved by the ACHCSA in a letter dated January 3, 2002. In August, October, and November 2002, GGTR implemented the approved work plan activities, details of which are presented in GGTR's June 10, 2003 Report of Additional Soil and Groundwater Investigation.

The following chronological list of activities shows the significant UST removal and investigative activities performed at the site to date:

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
10101100	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

01/03/02	ACHCSA submits work plan implementation request letter.
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
07/09/02	GGTR monitors and samples MW1, MW2 and MW3; Gettler-Ryan, Inc. currently
	on bi-annual sampling basis
08/19/02	GGTR submits July 9, 2002 Groundwater Monitoring Report to the ACHCSA
08/24/02-	
08/30/02	GGTR conducts December 2001 work plan subsurface fuel piping removal and site
	restoration activities.
10/15/02	Gettler-Ryan, Inc. monitors and samples GR-MW1 & GR-MW2.
10/23/02	GGTR monitors and samples MW1, MW2 and MW3.
10/30/02 &	
11/01/02	GGTR conducts December 2001 work plan additional soil boring activities
12/30/02	GGTR submits October 23, 2002 Groundwater Monitoring Report to the ACHCSA
06/10/03	GGTR submits Report of Additional Soil and Groundwater Investigation to the
	ACHCSA
09/08/03	ACHCSA submits Report Review Letter
10/15/03	GGTR conducts 3 rd Quarter 2003 Monitoring & Sampling (MW1-MW3)
10/31/03	GGTR submits October 15, 2003 Groundwater Monitoring Report to the
	ACHCSA

Report Distribution

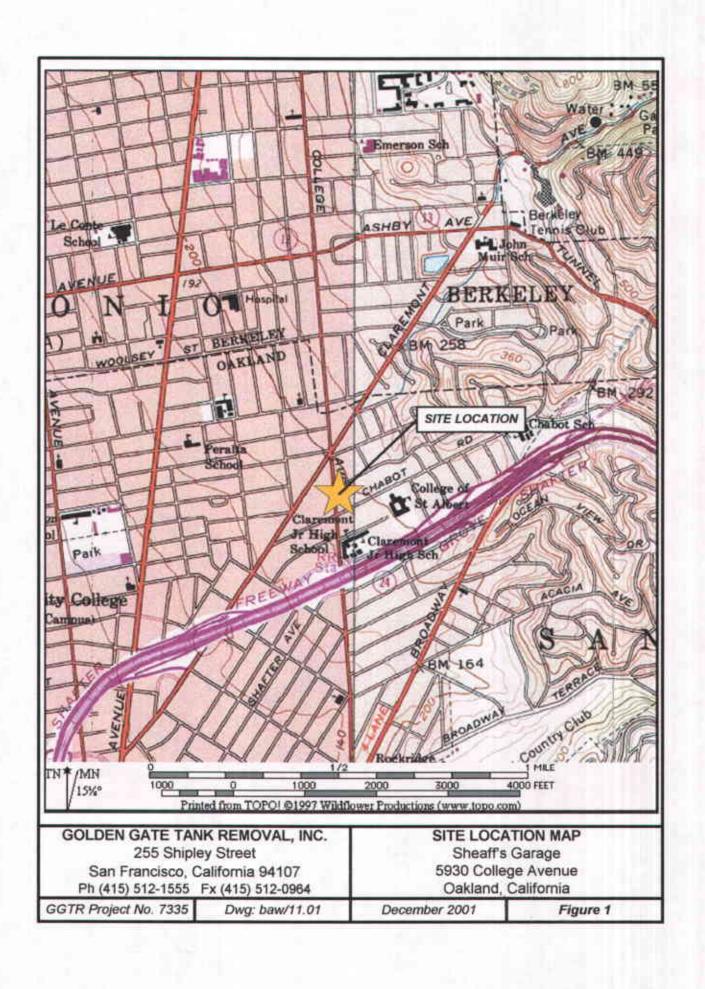
A copy of this quarterly groundwater monitoring report be submitted to the following site representatives:

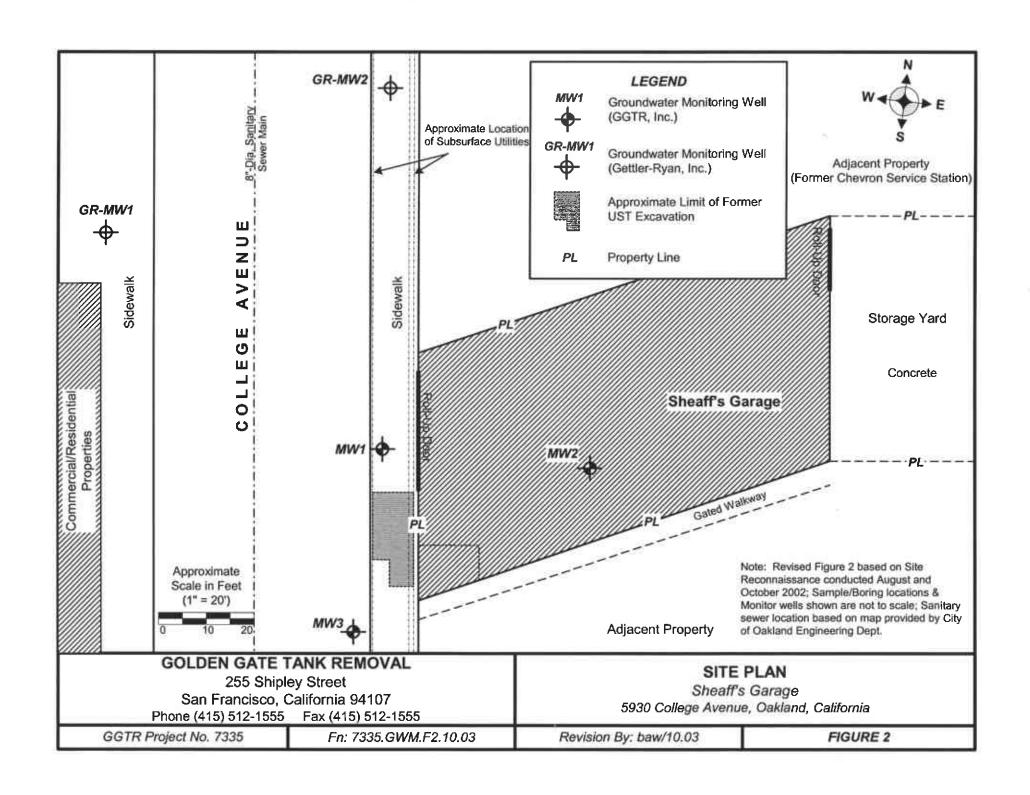
Alameda County Health Care Services Agency Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 Attention: Mr. Don Hwang

(1 Copy; Unbound)

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

(3 Copies; Bound)





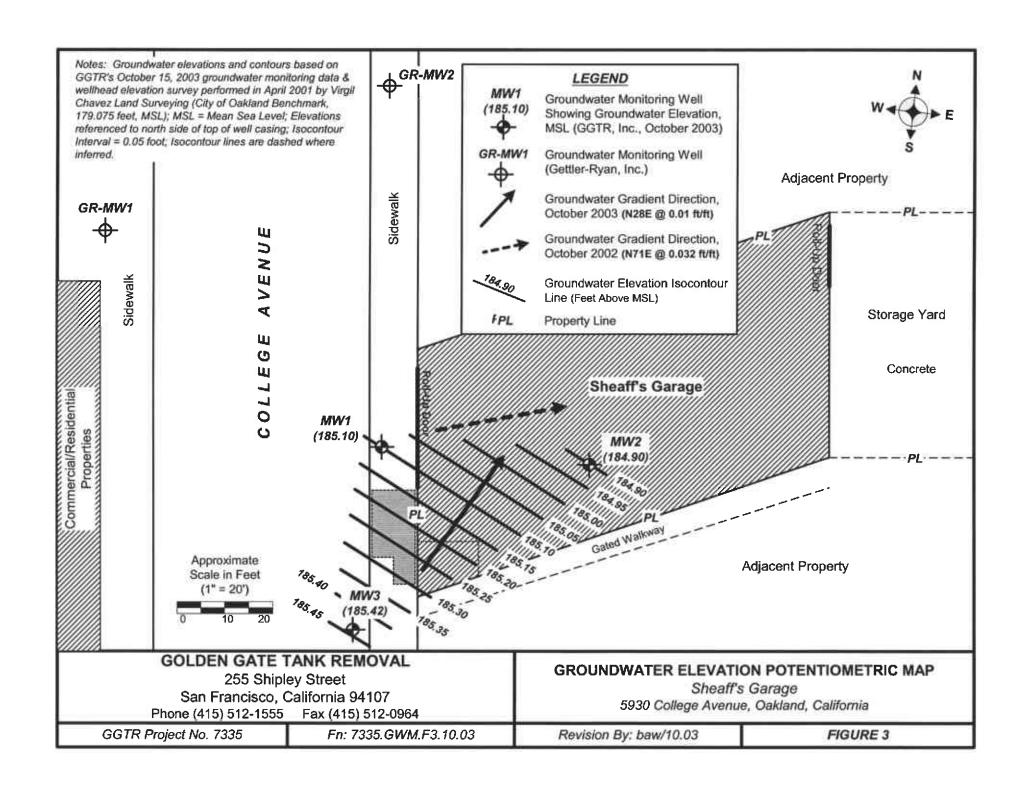


TABLE 1
Historical Results of Groundwater Sample Analysis & Fluid-Level Data
5930 College Avenue, Oakland, CA

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)	Total VOCs (ug/L)	MTBE (ug/L)	B/T/E/X (ug/L)
	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	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	8.26	41.74	slight sheen	130,000	**	122	470	25,000 / 18,000 / 4,500 / 22,000
	10/25/00	50.00 ¹	10.10	39.90	odor	130,000	277.	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
2.53314	04/25/01	195.90	7.39	188.51	odor	120,000	225	355	900	21,000 / 13,000 / 390 / 18,000
MW1	07/10/01	195.90	9.72	186.18	odor	79,000		S##	660	15,000 / 7,800 / 3000 / 15,000
	10/08/01	195.90	10.88	185.02	sheen/odor	112,000	544	5. 44	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		1,040 2	814 (679 ³)	21,200 / 13,400 / 4,230 / 21,000
	07/09/02	195.90	9.40	186.50	slight odor	110,000		573 4	746 (570 ³)	20,300 / 13,300 / 4,060 / 19,800
	10/23/02	195.90	11.04	184.86	none	54,100	1,000	41,482 5	1,010 (1,0803)	10,800 / 3,870 / 2,320 / 9,440
	10/15/03	195.90	10.80	185.10	none	90,700		47,837 ⁸	534 (724 ³)	17,800 / 4,740 / 3,150 / 13,900
	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	7.85	43.57	none	42,000	**	222	560	9,300 / 2,200 / 2,300 / 7,700
	10/25/00	51.42 ¹	11.57	39.85	slight/odor	31,000	742	ND	500	5,500 / 370 / 1,700 / 2,600
	02/02/01	51.42 ^T	10.77	40.65	odor	36,000	- 77		400	4,300 / 530 / 1,800 / 4,500
	04/25/01	197.28	8.52	188.76	odor	56,000	200	-	460	6,700 / 1700 / 2,600 / 8,200
D EXX.	07/10/01	197.28	11.05	186.23	odor	39,000		1 5 44	180	6,200 / 730 / 2,300 / 6,100
MW2	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			583 ³	10,200 / 2,670 / 3,840 / 13,200
	07/09/02	197.28	10.55	186.73	slight odor	37,100	100	298 (MTBE)	303 (2983)	5,340 / 890 / 2,110 / 6,920
	10/23/02	197.28	13.85	183.43	none	13,300	125	8,686 6	322 (360 ³)	2,420 / 216 / 922 / 1,470
	10/15/03	197.28	12.38	184.90	none	11,300	-	6,642 9	264 (3223)	2,660 / 51 / 1,180 / 1,220
		Laboratory R	Reporting I	Limit		50	5,000	≤50	0.5 (1)	0.5 / 0.5 / 0.5 / 1.0

Table Notes Following

TABLE 1 (Cont'd)

Historical Results of Groundwater Sample Analysis & Fluid-Level Data

5930 College Avenue, Oakland, CA

Well ID	Sample Date	TOC Elevation	DTW (Feet/	Water Elevation	Product/ Odor/	TPH-G	ТЕРН	Total VOCs	MTBE	B/T/E/X
		(Feet/MSL)	TOC)	(Feet/MSL)	Sheen	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
	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	5.40	43.99	none	3,300		CH+	40	110 / 8 / 100 / 32
	10/25/00	49.39	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		834	35	35 / 3 / 160 / 298
	04/25/01	195.22	6.61	188.61	slight odor	8,400		722	56	260 / 33 / 290 / 510
MW3	07/10/01	195.22	8.85	186.37	slight odor	12,000		777	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		3.55	81.73	723 / 138 / 492 / 887
	04/08/02	195.22	6.33	188.89	odor	11,700		244	ND 3	540 / 108 / 706 / 1,710
	07/09/02	195.22	8.56	186.66	odor	2,320		20 (MTBE)	28.3 (20 ³)	37.1 / 4.7 / 98.5 / 187
	10/23/02	195.22	10.02	185.20	Sheen/odor	2,830	**	865 7	ND (ND 3)	46.8 / 4.7 / 43.6 / 65.5
	10/15/03	195.22	9.80	185.42	Sheen/odor	3,040		436 10	ND (ND 3)	91.3 / 8.4 / 69.9 / 148
		Laboratory l	Reporting I.	imit		50	5,000	<50	0.5(1)	0.5 / 0.5 / 0.5 / 1.0
		CRWQCB N				NC	NC	Varies	5 11	1 / 150 / 700 / 1,750
CRWQCB December 2001 RBSL					100/500	100/640	Varies	5/1,800	1.0 (46) / 40 (130) / 30 (290) / 13 (13)	

TABLE 1 NOTES: TOC - top of well casing (north side)

DTW - depth to water relative to TOC

ug/L - micrograms per liter (equivalent to parts per billion)

TPH-G - Total Petroleum Hydrocarbons as Gasoline (SW8020F)

TEPH - Total Extractable Petroleum Hydrocarbons [EPA Methods 5030/8015M & EPA 1664 (B10 Only)]

Total VOCs - Total Volatile Organic Compounds by EPA Method 8260

MTBE - Methyl Tertiary Butyl Ether (EPA Method 8260)

BTEX - Benzene / Toluene / Ethylbenzene / Total Xylenes (SW8020F)

MSL - Mean Sea Level

ND - not detected above laboratory reporting limit

NC - no criteria established

- - not analyzed for this constituent

fog - feet below grade surface

TABLE 1 (Cont'd)

Historical Results of Groundwater Sample Analysis & Fluid-Level Data 5930 College Avenue, Oakland, CA

TABLE 1 NOTES (Cont'd):

- ¹ Arbitrary datum point with assumed elevation of 50 feet used prior to MSL survey on April 26, 2001
- ² Fuel oxygenate concentrations reported as 1,2-Dichloroethane (361 ug/l) and MTBE (679 ug/l)
- ³ Concentration confirmed by EPA Method 8260 (analysis of VOCs of Fuel Oxygenates)
- ⁴ Fuel oxygenate concentrations reported as 1,2-Dichloroethane (3 ug/l) and MTBE (570 ug/l)
- 5 VOC concentrations reported as 1,080 ug/l MTBE, 14,500 ug/l benzene, 5,370 ug/l toluene, 3,360 ug/l ethylbenzene, 13,700 ug/l total xylenes, 96 ug/l isopropylbenzene, 292 ug/l n-propylbenzene, 1,730 ug/l 1,3,5-trimethylbenzene, 500 ug/l 1,2,4-trimethylbenzene, 15 ug/l sec-butylbenzene, 61 ug/l n-butylbenzene, and 778 ug/l naphthalene
- ⁶ VOC concentrations reported as 360 ug/l MTBE, 3,430 ug/l benzene, 319 ug/l toluene, 1,210 ug/l ethylbenzene, 1,960 ug/l total xylenes, 59 ug/l isopropylbenzene, 148 ug/l n-propylbenzene, 631 ug/l 1,3,5-trimethylbenzene, 153 ug/l 1,2,4-trimethylbenzene, 14 ug/l sec-butylbenzene, 43 ug/l n-butylbenzene, and 359 ug/l naphthalene
- 7 VOC concentrations reported as 9 ug/l chloroform, 74 ug/l benzene, 9 ug/l toluene, 72 ug/l ethylbenzene, 109 ug/l total xylenes, 42 ug/l isopropylbenzene, 112 ug/l n-propylbenzene, 216 ug/l 1,3,5-trimethylbenzene, 100 ug/l 1,2,4-trimethylbenzene, 20 ug/l sec-butylbenzene, 59 ug/l n-butylbenzene, and 43 ug/l naphthalene
- 8 VOC concentrations reported as 724 ug/l MTBE, 19,300 ug/l benzene, 5,070 ug/l toluene, 3,230 ug/l ethylbenzene, 15,470 ug/l total xylenes, 288 ug/l n-propylbenzene, 565 ug/l 1,3,5-trimethylbenzene, 2,150 ug/l 1,2,4-trimethylbenzene, 1,040 ug/l naphthalene, and ND<50 ug/L 1,2-dibromoethane (EDB) & ND<100 ug/L 1,2-dichloroethane (EDC)</p>
- 9 VOC concentrations reported as 322 ug/l MTBE, 2,580 ug/l benzene, 53 ug/l toluene, 1,190 ug/l ethylbenzene, 1,045 ug/l total xylenes, 75 ug/l isopropylbenzene, 210 ug/l n-propylbenzene, 140 ug/l 1,3,5-trimethylbenzene, 529 ug/l 1,2,4-trimethylbenzene, 56 ug/l n-butylbenzene, 442 ug/l naphthalene, and ND<5 ug/L 1,2-dibromoethane (EDB) & ND<10 ug/L 1,2-dichloroethane (EDC)</p>
- VOC concentrations reported as 79 ug/l benzene, 8.3 ug/l toluene, 65 ug/l ethylbenzene, 118.6 ug/l total xylenes,
 21 ug/l isopropylbenzene, 62 ug/l n-propylbenzene, 11 ug/l 1,3,5-trimethylbenzene, 30 ug/l 1,2,4-trimethylbenzene,
 13 ug/l n-butylbenzene, 28 ug/l naphthalene, and ND<0.5 ug/L 1,2-dibromoethane (EDB) & ND<1 ug/L 1,2-dichloroethane (EDC)

11 - Secondary Maximum Contaminant Level established by CRWQCB

CRWQCB MSWQO (Primary MCL) = California Regional Water Quality Control Board, Municipal Supply Water Quality Objective;
Primary Maximum Contaminant Level

CRWQCB/ESL = California Regional Water Quality Control Board's Tier 1Environmental (Risk-Based) Screening Level; Levels shown are for **Groundwater < 10 fbg (3 meters)**, which IS / IS NOT a threatened drinking water resource.

APPENDIX

LABORATORY CERTIFICATES OF ANALYSIS, CHAIN OF CUSTODY FORMS, FLUID-LEVEL MONITORING DATA SHEET WELL PURGING/SAMPLING DATA SHEET GEOTRACKER AB2886 UPLOAD CONFIRMATION FORMS

QUARTERLY GROUNDWATER MONITORING REPORT October 15, 2003

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

GGTR Project No. 7335 October 31, 2003



CERTIFICATE OF ANALYSIS

Lab Number:

03-1462

Client:

Golden Gate Tank

Project:

5930 COLLEGE AVE, OAKLAND

Date Reported: 10/17/2003

Gasoline, BTEX and MTBE by Methods 8015M/8021B

Analyte	Method	Result	Unit Date	Sampled	<u>Date Analyze</u> d
Sample: 03-1462-01 Clien	t ID: 7335-	MW1-W	10/	15/2003	WW
Benzene	SW8020F	17800	UG/L		10/16/2003
Ethylbenzene	SW8020F	3150	UG/L		10/16/2003
Gasoline Range Organics	SW8020F	90700	UG/L		10/16/2003
Methyl-tert-butyl ether	SW8020F	*534	UG/L		10/16/2003
Toluene	SW8020F	4740	UG/L		10/16/2003
Xylenes	SW8020F	13900	UG/L		10/16/2003
Sample: 03-1462-02 Clien	t ID: 7335	-MW2 <i>-</i> W	10,	/15/2003	W
Benzene	SW8020F	2660	UG/L		10/15/2003
Ethylbenzene	SW8020F	1180	UG/L		10/15/2003
Gasoline Range Organics	SW8020F	11300	UG/L		10/15/2003
Methyl-tert-butyl ether	SW8020F	*264	UG/L		10/15/2003
Toluene	SW8020F	51	UG/L		10/15/2003
Xylenes	SW8020F	1220	UG/L		10/15/2003
Sample: 03-1462-03 Clien	nt ID: 7335	W-8WM-	10	/15/2003	W
Benzene	SW8020F	91.3	UG/L		10/15/2003
Ethylbenzene	SW8020F	69.9	UG/L		10/15/2003
Gasoline Range Organics	SW8020F	3040	UG/L		10/15/2003
Methyl-tert-butyl ether	SW8020F	*ND<0.5	UG/L		10/15/2003
Toluene	SW8020F	8.4	UG/L		10/15/2003
Xylenes	SW8020F	148	UG/L		10/15/2003

^{*}Confirmed by GC/MS method 8260B.



CERTIFICATE OF ANALYSIS

Quality Control/Quality Assurance

Lab Number:

03-1462

Client:

Golden Gate Tank

Project:

5930 COLLEGE AVE, OAKLAND

Date Reported: 10/17/2003

Gasoline, BTEX and MTBE by Methods 8015M/8021B

Analyte	Method	Reporting Unit Limit		Blank	Avg MS/MSD Recovery	RPD
Gasoline Range Organics	SW8020F	50	UG/L	ND	129/129	0
Benzene	SW8020F	0.5	UG/L	ND	109/110	1
Toluene	SW8020F	0.5	UG/L	ND	113/113	0
Ethylbenzene	SW8020F	0.5	UG/L	ND	89/88	1
Xylenes	SW8020F	1.0	UG/L	ND	118/118	0
Methyl-tert-butyl ether	SW8020F	0.5	UG/L	ND	98/97	1

ELAP Certificate NO:1753

Reviewed and Approved

aboratory Director



CERTIFICATE OF ANALYSIS

Job Number: 03-1462

Client : Golden Gate Tank

Project : 5930 COLLEGE AVE, OAKLAND

Date Sampled: 10/15/2003

Date Analyzed: 10/17/2003 Date Reported: 10/17/2003

Volatile Organics by GC/MS Method 8260

Tabanakan ayan			
Laboratory Number	03-1462-01	03-1462-02	03-1462-03
Client ID	7335-MW1-W	7335-MW2-W	7335-MW3-W
Matrix	W	W	M
Analyte	UG/L	UG/L	UG/L
Bromochloromethane	ND<100	ND<10	ND<1
Dichlorodifluoromethane	ND<100	ND<10	ND<1
Chloromethane	ND<100	ND<10	ND<1
Vinyl chloride	ND<50	ND<5	ND<0.5
Bromomethane	ND<100	ND<10	ND<1
Chloroethane	ND<100	ND<10	ND<1
Trichlorofluoromethane	ND<100	ND<10	ND<1
1,1-Dichloroethene	ND<50	ND<5	ND<0.5
Acetone	ND<1000	ND<100	ND<10
Methylene chloride	ND<500	ND<50	ND<5
trans-1,2-Dichloroethene	ND<100	ND<10	ND<1
Methyl-tert-butyl ether	724	322	ND<0.5
1,1-Dichloroethane	ND<50	ND<5	ND<0.5
2,2-Dichloropropane	ND<100	ND<10	ND<1
cis-1,2-Dichloroethene	ND<100	ND<10	ND<1
2-Butanone	ND<500	ND<50	ND<5
Chloroform	ND<50	ND<5	ND<0.5
Carbon tetrachloride	ND<50	ND<5	ND<0.5
1,1-Dichloropropene	ND<100	ND<10	ND<1
Benzene	19300	2580	79
1,2-Dichloroethane	ND<100	ND<10	ND<1
Trichloroethene	ND<50	ND<5	ND<0.5
1,2-Dichloropropane	ND<100	ND<10	ND<1
Dibromomethane	ND<100	ND<10	ND<1
Bromodichloromethane	ND<100	ND<10	ND<1
trans-1,3-Dichloropropene	ND<100	ND<10	ND<1
4-Methyl-2-pentanone	ND<100	ND<10	ND<1
Toluene	5070	53	8.3
cis-1,3-Dichloropropene	ND<100	ND<10	ND<1
1,1,2-Trichloroethane	ND<100	ND<10	ND<1
Tetrachloroethene	ND<50	ND<5	ND<0.5
1,3-Dichloropropane	ND<100	ND<10	ND<1
2-Hexanone	ND<100	ND<10	ND<1
Dibromochloromethane	ND<100	ND<10	ND<1
1,2-Dibromoethane	ND<50	ND<5	ND<0.5

Comments:



CERTIFICATE OF ANALYSIS

Job Number: 03-1462

Client : Golden Gate Tank

Project : 5930 COLLEGE AVE, OAKLAND

Date Sampled : 10/15/2003

Date Analyzed: 10/17/2003 Date Reported: 10/17/2003

Volatile Organics by GC/MS Method 8260

Laboratory Number	03-1462-01	03-1462-02	03-1462-03
Client ID	7335-MW1-W	7335-MW2-W	7335-MW3-W
Matrix	W	W	W
Analyte	UG/L	UG/L	UG/L
at 1	00/H	0.67 1.	OG/L
Chlorobenzene	ND<100	ND<10	ND<1
1,1,1,2-Tetrachloroethane	ND<100	ND<10	ND<1
Ethylbenzene	3230	1190	65
Xylene, Isomers m & p	10400	1020	116
o-Xylene	5070	25	2.6
Styrene	ND<100	ND<10	N D<1
Bromoform	ND<100	ND<10	ND<1
Isopropylbenzene	ND<100	75	21
Bromobenzene	ND<100	ND<10	ND<1
1,1,2,2-Tetrachloroethane	ND<100	ND<10	ND<1
n-Propylbenzene	288	210	62
2-Chlorotoluene	ND<100	ND<10	ND<1
4-Chlorotoluene	ND<100	ND<10	ND<1
1,3,5-Trimethylbenzene	565	140	11
tert-Butylbenzene	ND<100	ND<10	ND<1
1,2,4-Trimethylbenzene	2150	529	30
1,3-Dichlorobenzene	ND<100	ND<10	ND<1
1,4-Dichlorobenzene	ND<100	ND<10	ND<1
sec-Butylbenzene	ND<100	ND<10	ND<1
1,2-Dichlorobenzene	ND<100	ND<10	ND<1
n-Butylbenzene	ND<100	56	13
Naphthalene	1040	442	28
1,2,4-Trichlorobenzene	ND<100	ND<10	ND<1
Hexachlorobutadiene	ND<100	ND<10	ND<1
1,2,3-Trichlorobenzene	ND<100	ND<10	ND<1
1,2,3-Trichloropropane	ND<100	ND<10	ND<1
Acetonitrile	ND<500	ND<50	ND<5
Acrylonitrile	ND<100	ND<10	ND<1
Isobutanol	ND<500	ND<50	ND<5
1,1,1-Trichloroethane	ND<100	ND<10	ND<1
SUR-Dibromofluoromethane	109	105	116
SUR-Toluene-d8	99	100	115
SUR-4-Bromofluorobenzene	104	104	110
	101	T U #	710

Comments:



CERTIFICATE OF ANALYSIS

Job Number: 03-1462

Date Sampled : 10/15/2003

Client

: Golden Gate Tank

Date Analyzed: 10/17/2003

Project : 5930 COLLEGE AVE, OAKLAND

Date Reported: 10/17/2003

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

Laboratory Number	03-1462	MS/MSD	RPD	Recovery	RPD
Client ID	Blank	Recovery		Limit	Limit
Matrix	w	W			
Analyte	Results UG/L	%Recoveries			
Bromochloromethane	N D<1				
Dichlorodifluoromethane	ND<1				
Chloromethane	ND<1				
Vinyl chloride	ND<0.5				
Bromomethane	ND<1				
Chloroethane	ND<1				
Trichlorofluoromethane	ND<1				
1,1-Dichloroethene	ND<0.5	76/72	5	61-128	25
Acetone	ND<10				
Methylene chloride	ND<5				
trans-1,2-Dichloroethene	ND<1				
Methyl-tert-butyl ether	ND<0.5				
1,1-Dichloroethane	ND<0.5				
2,2-Dichloropropane	ND<1				
cis-1,2-Dichloroethene 2-Butanone	ND<1				
Chloroform	ND<5				
Carbon tetrachloride	ND<0.5				
1,1-Dichloropropene	ND<0.5 ND<1		,		
Benzene	ND<1.5	100/107	2	24 125	21
1,2-Dichloroethane	ND<1	109/107	Z	74-135	21
Trichloroethene	ND<0.5	97/95	2	69-129	20
1,2-Dichloropropane	ND<0.5	37733	2	05-125	20
Dibromomethane	ND<1				
Bromodichloromethane	ND<1				
trans-1,3-Dichloropropene	ND<1				
4-Methyl-2-pentanone	ND<1				
Toluene	ND<0.5	120/114	5	61-141	19
cis-1,3-Dichloropropene	ND<1	110,111			
1,1,2-Trichloroethane	ND<1				
Tetrachloroethene	ND<0.5				
1,3-Dichloropropane	ND<1				
2-Hexanone	ND<1				
Dibromochloromethane	ND<1				
1,2-Dibromoethane	ND<0.5				
Chlorobenzene	ND<1	115/115	0	70-139	19
1,1,1,2-Tetrachloroethane	ND<1				
Ethylbenzene	ND<0.5				
Xylene, Isomers m & p	ND<1				
o-Xylene	ND<0.5				
Styrene	ND<1				



CERTIFICATE OF ANALYSIS

Job Number: 03-1462

Date Sampled : 10/15/2003

Client

: Golden Gate Tank

Date Analyzed: 10/17/2003

Project

: 5930 COLLEGE AVE, OAKLAND

Date Reported: 10/17/2003

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

Laboratory Number	03-	1462	MS/MSD	RPD	Recovery	RPD
Client ID	Bla	ink	Recovery	112.2	Limit	Limit
Matrix	W		īvi			
Analyte	Re UG,	sults 'L	%Recoveries			
Bromoform	ND	c1				
Isopropylbenzene	ND:					
Bromobenzene	ND	-				
1,1,2,2-Tetrachloroethane	ND					
n-Propylbenzene	ND					
2-Chlorotoluene	ND	<1				
4-Chlorotoluene	ND					
1,3,5-Trimethylbenzene	ND	<1				
tert-Butylbenzene	ND	<1				
1,2,4-Trimethylbenzene	ND	- <1				
1,3-Dichlorobenzene	ND	<1				
1,4-Dichlorobenzene	ND	<1				
sec-Butylbenzene	NE	<1				
1,2-Dichlorobenzene	NI	<1				
n-Butylbenzene	NI	< 1				
Naphthalene	NI	<1				
1,2,4-Trichlorobenzene	NI	<1				
Hexachlorobutadiene	NI	<1				
1,2,3-Trichlorobenzene	NI	×1				
1,2,3-Trichloropropane	NI	<1				
Acetonitrile	NI)< 5				
Acrylonitrile	N)<1				
Isobutanol	N	0<5				
1,1,1-Trichloroethane	N	0<1				
SUR-Dibromofluoromethane	1:	L 4	123/122	1	67-129	21
SUR-Toluene-d8	↑ 1	08	111/107	4	72-119	16
SUR-4-Bromofluorobenzene	1	06	113/112	1	78-121	19

Reviewed and Approyed

Laboratory Director



CERTIFICATE OF ANALYSIS

Job Number: 03-1462

Client : Golden Gate Tank

Project : 5930 COLLEGE AVE, OAKLAND

Date Sampled : 10/15/2003

Date Analyzed: 10/17/2003

Date Reported: 10/17/2003

Fuel Oxygenates by Method 8260B

Laboratory Number	03-1462-01	03-1462-02	03-1462-03
Client ID	7335-MW1-W	7335-MW2-W	7335-MW3-W
Matrix	W	W	M
Analyte	UG/L	UG/L	UG/L
Methyl-tert-butyl ether	724	322	ND<0.5
Ethyl tert-butyl ether	ND<100	ND<10	ND<1
tert-Amyl methyl ether	ND<100	ND<10	ND<1
Di-isopropyl ether (DIFE)	ND<50	ND<5	ND<0.5
tert-Butyl alcohol	ND<1000	ND<100	ND<10
1,2-Dichloroethane	ND<100	ND<10	ND<1
1,2-Dibromoethane	ND<50	ND<5	ND<0.5
Ethanol	ND<10000	ND<1000	ND<100
SUR-Dibromofluoromethane	109	105	116
SUR-Toluene-d8	99	100	115
SUR-4-Bromofluorobenzene	104	104	110



CERTIFICATE OF ANALYSIS

Job Number: 03-1462

Date Sampled : 10/15/2003

Client

: Golden Gate Tank

Date Analyzed: 10/17/2003

Project

: 5930 COLLEGE AVE, OAKLAND

Date Reported: 10/17/2003

Fuel Oxygenates by Method 8260B Quality Control/Quality Assurance Summary

Laboratory Number Client ID Matrix	03-1462 Blank W	MS/MSD Recovery W	RPD	Recovery Limit	RPD Limit
Analyte	Results UG/L	%Recoveries			
Ethanol	ND<100				
Methyl-tert-butyl ether	ND<0.5				
Di-isopropyl ether (DIPE)	ND<0.5				
tert-butyl Alcohol	ND<10				
Ethyl tert-butyl ether	ND<1				
tert-Amyl methyl ether	ND<1				
1,1-Dichloroethene	ND<0.5	76/72	5	61-128	25
1,2-Dichloroethane	ND<1				
Benzene	ND<0.5	109/107	2	74-135	21
1,2-Dibromoethane	ND<0.5				
Trichloroethene	ND<0.5	97/95	2	69-129	20
Toluene	ND<0.5	120/114	5	61-141	19
Chlorobenzene	ND<1	115/115	0	70-139	19
SUR-Dibromofluoromethane	114	123/122	1	67-129	21
SUR-Toluene-d8	108	111/107	4	72-119	16
SUR-4-Bromofluorobenzene	106	113/112	1	78-121	19

Reviewed and Apphoved

Laboratory Director

North State Environmental

6502664560

North State Labs
90 South Spruce Avenue, Suite W, South San Francisco, CA 94080
Phone: (650) 266-4563 Fax: (650) 266-4560

03	3-1462
Chain of Custody /	Request for Analysis
Lab Job No.:	Pageof

				·· ··········				Phone	415 .	=\7 · 1#	1	1	urnaround Time
Client GGTT	<u></u>			Report to: BRENT WHEELOZ			Phone: 415.512.1555 Fax 415.512.09164					A.S. A.P	
Mailing Address:	コアと	eπ	Billing	Billing to:						Date:	10 15 03		
7555 5F	SHIPLEY CH AL	1107					PO# 7375		Sampler: KUN A				
-			<u> </u>					PO#		100 T	7	7	Com A
Project / Site Address	s / Global II	: T0600	1021	12	Analys			W		<i>f</i> /	/		/ EDF □X
STEAPES GAIN	6 <i>E</i> . 5930	COLUEBE	ME	CHELLIO	Requested	A S	\$ 1		3/1/8	105	5/		Field Point IO
Sample ID	Sample Type	Container No. / Type	Ртев.	_ Out	npling /Time	Æ 3	BEX KARE	PO#	1138	NO AND		_	
444.	GIRWIND	4 10000	Hel	14-16-05	1223	X	Χ	Y	×	×		<u> </u>	7335-WW1
1335-NWI-W	<u> 4</u> 10	410013	10	1,19.22	1205	X	X	X	×	×			7335-MWZ
7335-MWZ-W	 \		T.	11	1125	Х	X	K	X	×			7335-MW3
7375 MW3-W										·			
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Relinguished by:	Kutal	ATTUNS	<u> </u>	Date: W-IS	・0ろTime:	1405	Recei	ved by: (九	m	<u>Oh</u>	1	Lab Comments/ Hazards
Relinquished by:	7 7117			Date:	Time:			ved by:					4
2 1910 1 Mark 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		 	1	Date:	Time:		Rece	ved by:					

NORTH STATE ENVIRONMENTAL

FLUID-LEVEL MONITORING DATA

Project No:	,	t335		Date:	or 15 2003
Project/Site	Location: _	SITEATES	GATUGE	<u> </u>	OWESE. ANE OMCUMOD CA
Technician:	XA	1 ATTUNGO	<u></u>	Method:	EVERTANIC
Boring/ Well	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)	Comments
MW-1	10.80			1445	@ 1054
MW-Z	12.38			19.60	@ 1090
MW-3	9.80			18.70	@ 1048
-					
				•	
-					

Measurements referenced to top of well casing.

NORTH STATE ENVIRONMENTAL

WELL PURGING/SAMPLING DATA

Project Number: 7335	Date: 00 15 200 3
	746E
5930 COUESE	ME CAKIND CA
Sampler/Technician: Who ATKINGTON	
Casing/Borehole Diameter (inches) 0.75/1.75	72/8 4/8 4/10 6/10 6/12
Casing/Borehole Volumes (gallons/foot) 0.02/0.13	0.3/0.9 0.7/1.2 0.7/1.6 1.5/2.2 1.5/3.1
·	
Weil No. MW-1	Well No. MW-2
A Total Well Depth 1445 Ft (toc)	A. Total Well Depth 1960 Ft.(toc)
B. Depth To Water 10.80 Ft.	B. Depth To Water 12-36 Ft.
C. Water Height (A-B) 3-45 Ft.	C. Water Height (A-B) 712 Ft.
D. Well Casing Diameter 2 In.	D. Well Casing Diameter 7 In.
E. Casing Volume Constant	E. Casing Volume Constant
(from above table)	(from above table)
F. Three (3) Casing or ,73	F. Three (3) Casing or 1-44
Borehole Volumes (CxEx3) 2-19 Gals.	Borchole Volumes (CxEx3) 4.35 Gals.
G. 80% Recharge Level	G. 80% Recharge Level
[B+(ExC)] <u>11.5ろ</u> Ft.	[B+(ExC)] 13.82 Ft
Purge Event #1	Purge Event #1
Start Time: 1240	Start Time: 1145
Finish Time: (124)	Finish Time: 100
Purge Volume: 2.5	Purge Volume: 4.5
Recharge #1	Recharge #1
Depth to Water:	Depth to Water:
Time Measured:	Time Measured:
Purge Event #2	Purge Event #2
Start Time:	Start Time:
Finish Time:	Finish Time:
Purge Volume:	Purge Volume:
Recharge #2	Recharge #2
Depth to Water:	Depth to Water:
Time Measured:	Time Measured:
Well Fluid Parameters:	Well Fluid Parameters:
(Casing or Borehole Volumes)	(Casing or Borehole Volumes)
0 1 15 2 25 3	
pH 7.16 706 7.00 64	£ ^
T (°F) H-S To-4 1045 1056 1056 1056 1056 1056 1056 1056 105	
1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
DO 1.24 1664. Turbidity	DO 1-94/20.64. Turbidity
ORP -073	ORP -039
Summary Data:	Summary Data:
Total Gallons Purged: 2.5 6405	Total Gallons Purged: 4.5
Purge device: bc-65	Purge device: 50-60
Sampling Device: Disp. 84W52	Sampling Device: 5150. BA WER
Sample Collection Time: 1225	Sample Collection Time: 125
Sample Appearance:	Sample Appearance: oper
Drums Remaining Onsite: Total Volum	

NORTH STATE ENVIRONMENTAL

WELL PURGING/SAMPLING DATA

Project Number: 7335	Date: 09 15 7003
Project / Site Location: SITEATES GATURE	SE 5930 COLLEGE THE ONKLAND O
Sampler/Technician: Whi ATUNISON	
Casing/Borehole Diameter (inches) 0.75/1.75	②8 4/8 4/10 6/10 6/12
Casing/Borehole Volumes (gallons/foot) 0.02/0.13	0.2/0.9 0.7/1.2 0.7/1.6 1.5/2.2 1.5/3.1
0.000	
Well No. MW-3	Well No.
A. Total Well Depth 15.70 Ft(toc)	A. Total Well Depth Ft.(toc)
B. Depth To Water 9.50 Ft	B. Depth To Water Ft
C. Water Height (A-B) <u>\$.90</u> Ft	C. Water Height (A-B)
D. Well Casing Diameter 2 In.	D. Well Casing Diameter In.
E. Casing Volume Constant	E. Casing Volume Constant
(from above table)	(from above table)
F. Three (3) Casing or	F. Three (3) Casing or
Borehole Volumes (CxEx3) 5.34 Gals.	Borehole Volumes (CxEx3) Gals.
G. 80% Recharge Level	G. 80% Recharge Level [B+(ExC)] Ft.
[B+(ExC)] 11.96 Ft.	[B+(ExC)] Ft.
Purge Event #1	Purge Event #I
Start Time: NV5	Start Time:
Finish Time: WWO	Finish Time:
Purge Volume: 5.5	Purge Volume:
Recharge #1	Recharge #1
Depth to Water:	Depth to Water:
Time Measured:	Time Measured:
Purge Event #2	Purge Event #2
Start Time:	Start Time:
Finish Time:	Finish Time:
Purge Volume:	Purge Volume:
Recharge #2	Recharge #2
Depth to Water:	Depth to Water:
Time Measured:	Time Measured:
NY NI West A Years and America	Well Fluid Parameters:
Well Fluid Parameters: (Casing or Borehole Volumes)	(Casing or Borehole Volumes)
0 1 15 2 2.5	
pH 7-53 7-34 7-14 7-14	
T(0F) 63.7 64.5 64.5	7 (°F)
Cond 669 639 613	Cond.
DO 2-31/24-41	DO
Turbidity	Turbidity
ORP -051	ORP
Summary Data:	Summary Data:
Total Gallons Purged: 5-5	Total Gallons Purged:
Purge device: dc-60	Purge device:
Sampling Device: 5:40. BANGE	Sampling Device:
Sample Collection Time: WS	Sample Collection Time:
Sample Appearance:	Sample Appearance:
Drums Remaining Onsite: Total Volum	ne: Gals. (Show Location on Site Plan)

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Facility Name: SHEAFFS SERVICE GARAGE

Submittal Title: 03-1462: 10/15/03 GW Analytical Data (MW1-MW3)

Submittal Type: GW Monitoring Report

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Fluid-Level Monitoring Data MW1-MW3

(10/15/03)

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