



RO 377

Alameda County  
APR 08 2004  
Environmental Health

**QUARTERLY GROUNDWATER MONITORING REPORT**  
**February 2, 2004**

**Sheaff's Garage**  
**5930 College Avenue**  
**Oakland, California**

**ACHCSA Fuel Leak Case No. RO0000377**

Prepared For:

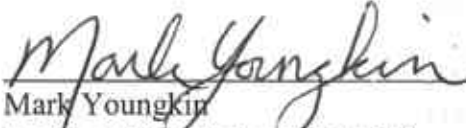
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GGTR Project No. 7335  
March 29, 2004

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Alameda County  
APR 08 2004  
Environmental Health

**QUARTERLY GROUNDWATER MONITORING REPORT**  
**February 2, 2004**

**5930 College Avenue, Oakland, California**

**Introduction**

This report presents the results and findings of the February 2, 2004 groundwater monitoring and sampling activities conducted by Golden Gate Tank Removal, Inc. (GGTR) at 5930 College Avenue in Oakland, California. This was the 13th quarterly monitoring event performed at the site for the three existing monitor wells, MW1 through MW3. 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 February 2, 2004; however, they were unable to conduct activities on the scheduled date. 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 February 2004) ranged between approximately 5.5 and 13 fbg. The average depth to groundwater reported during the February 2004 monitoring event was approximately 8 fbg, with an associated mean groundwater elevation of 188.42 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 gradient

measured during the February 2004 event was approximately 0.005 ft/ft directed 18° east of south. 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 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 February 2, 2004, 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 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, 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 then 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 February 2, 2004, 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)

NSL completed all volatile organic analyses by February 5, 2004, 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. A laboratory-supplied trip blank was returned with the groundwater samples to the laboratory and analyzed for BTEX only (Sample ID 7335-TB), the results of which are included in Table 1.

## Groundwater Monitoring Results

The groundwater elevations measured relative to the top of well casing in MW1 through MW3 ranged between 188.37 (MW3) and 188.55 (MW1) feet above Mean Sea Level. The associated groundwater gradient calculated for the February 2, 2004 monitoring event was 0.5 foot / 100 feet (0.005 ft/ft) directed approximately 18° east of south. The groundwater gradient and associated elevation isocontour lines are shown on Figure 3, *Groundwater Elevation Potentiometric Map*.

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. Figure 4 presents a *Rose Diagram* showing the historical hydraulic gradients (magnitude and direction) across the site.

**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
<b>02/02/04</b>	<b>188.47</b>	<b>18° east of south</b>	<b>0.5 foot / 100 feet</b>

**Discussion of Monitoring Results**

The mean groundwater elevation measured at the site during this event was approximately 3.33 feet higher than that measured during the monitoring event in October 2003 and comparable to the mean groundwater elevation reported in April 2001 (188.6 feet). Based on the relative groundwater elevation data recorded for this event, the groundwater flow direction was directed approximately 18° east of south, representing a presumed clockwise shift of approximately 134° toward the south, as compared to the previous monitoring event. This groundwater flow direction has fluctuated significantly since the installation of the monitor wells in October 2001. The calculated gradient slope for this event (0.005 foot/foot) has decreased significantly since the previous monitoring events in October 2002 (0.032 foot/foot) and October 2003 (0.01 foot/foot).

Shallow, unconfined groundwater in the vicinity of the former UST cavity and monitored area (February 2004) was characterized by moderate dissolved oxygen concentrations ranging between 23.5% (2.28-2.35 milligrams per liter, mg/L) in MW1 and MW2 and 28.9% (2.66 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 this event, but remain relatively the same as compared to the previous monitoring event in October 2003. The groundwater in each well was also initially monitored for Oxidation-Reduction Potential (ORP), which ranged between -071 millivolts in MW3 to -037 millivolts in MW1. This ORP range of values signifies that anaerobic biodegradation (iron reduction range) may potentially be occurring within the shallow groundwater once the dissolved oxygen is depleted. The February 2004 ORP values are consistent with those recorded in October 2003. The groundwater was also

characterized by an average pH, specific conductivity, and temperature of 6.45, 628 micromhos per centimeter ( $\mu\text{mhos/cm}$ ), and 61.8 Fahrenheit degrees, respectively.

Neither free product nor surface sheen was present in the purge water or groundwater samples in MW1 through MW3 during the February 2004 monitoring event; however, gasoline-like hydrocarbon odors were again detected 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 February 2, 2004 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.

#### February 2, 2004 Groundwater Sampling Results

Well ID	Sample ID	TPH-G (ug/L)	BTEX (ug/L)	MTBE (ug/L)	VOC/OXY (ug/L)
MW1	7335-MW1	108,000	14,200 / 7,420 / 3,450 / 19,800	216 (194*)	50,118 / NA
MW2	7335-MW2	21,700	2,130 / 51 / 1,030 / 2,060	168 (200*)	8,020 / NA
MW3	7335-MW3	5,140	126 / 8.7 / 134 / 238	ND (ND*)	769.5 / NA
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 and/or Fuel Oxygenate analysis

Total Petroleum Hydrocarbons as gasoline (TPH-G) continued to increase in monitor well MW1 from 54,100 and 90,700 micrograms per liter (ug/L) to 108,000 ug/L as compared to the October 2002 and 2003 monitoring events. The concentration of TPH-G reported in MW2 significantly increased from 11,300 to 27,700 ug/L as compared to the last monitoring event. The concentration of TPH-G measured in MW3 has continued to increase slightly since the July 2002 monitoring event, and has increased since the October 2003 event from 3,040 to 5,140 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  $\leq 10$  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) continues to decrease in MW1 from 1,010 to 216 ug/L (194 ug/L, as confirmed by EPA Method 8260), and in MW2, from 322 to 168 ug/L (200 ug/L; EPA Method 8260) as compared to the October 2002 event. The MTBE concentrations measured in MW2 since January 2002 appear to remain relatively stable, fluctuating only slightly between 168 ug/l (February 2004) 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 Secondary MCL listed for this chemical constituent (5 ug/L).

The benzene concentration measured in the groundwater sample collected in MW1 and MW2 decreased from 17,800 to 14,200 ug/L and from 2,660 to 2,130 ug/L, respectively, as compared with the October 2003 event. The benzene concentration measured in MW3 slightly increased from 91.3 to 126 ug/L. The concentrations of toluene, ethylbenzene, and total xylenes measured in MW1 have continued to increase since the October 2002 event. The concentrations of toluene, ethylbenzene, and total xylenes measured in MW2 and MW3 have remained relatively stable since the July 2002 event. The BTEX concentrations measured in each well exceeds the CRWQCB's Tier 1 ESL established for each constituent, where groundwater is potentially a threatened drinking water resource. Also the BTEX concentrations measured in MW1 and MW2 exceed the CRWQCB's Primary MCL value established for each constituent, except for the toluene concentration (51 ug/L) measured in MW2. Respective Tier 1 ESL and MCL Values are tabulated at the end of Table 1 (Page 2).

The total concentration of Volatile Organic Compounds (VOCs) measured in MW1 has continued to increase 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 February 2004 event (See Table 1 Notes #12). The concentrations of 1,2-Dichloroethane (EDC) and 1,2-dibromoethane (EDB), reported in MW1 through MW3 remained below the respective laboratory reporting limit for each VOC constituent ( $\leq 100$  ug/L for EDC and  $<50$  ug/L for EDB). The groundwater samples collected in MW1 and MW2 contained 194 and 200 ug/L MTBE, as confirmed by VOC analyses. The samples collected in MW1 through MW3 also contained 992, 413, and 33 ug/L naphthalene (VOC).



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 non-detectable results (except MTBE) 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 were not analyzed during the February 2004 event. 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 February 2, 2004 event in electronic deliverable format to the State Water Resources Control Board's GeoTracker Database System. The GeoTracker Upload Confirmation Number is 1600448429. 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 February 2, 2004 event in electronic deliverable format to the State GeoTracker Database System. The GeoTracker Upload Confirmation Number is 1215436637. A confirmation report copy corresponding to Lab Number/Submittal Title 04-0132: 2/2/04 GW Analytical Data (MW1-MW3) is included in the Appendix.

### **Waste Management**

The drummed well purge and equipment wash and rinse water (@ 25 gallons) generated during the February 2004 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 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<sup>rd</sup> Quarter 2003 Monitoring & Sampling (MW1-MW3)  
10/31/03 GGTR submits October 15, 2003 Groundwater Monitoring Report to the ACHCSA  
**02/02/04 GGTR conducts 1<sup>st</sup> Quarter 2004 Monitoring & Sampling (MW1-MW3)**  
**03/29/04 GGTR submits February 2, 2004 Groundwater Monitoring Report to the ACHCSA**

## Report Distribution

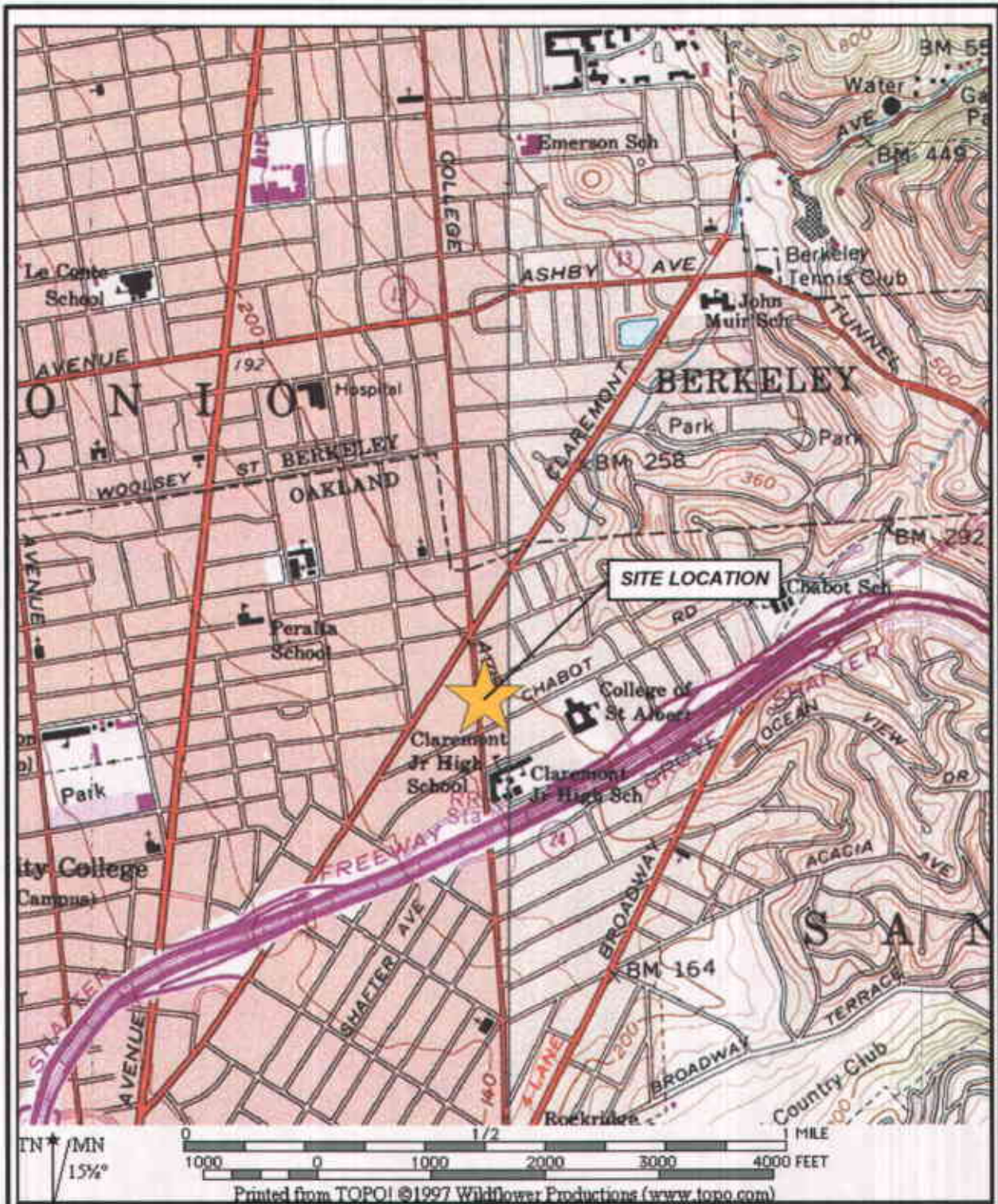
A copy of this quarterly groundwater monitoring report be submitted to the following site representatives:

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*

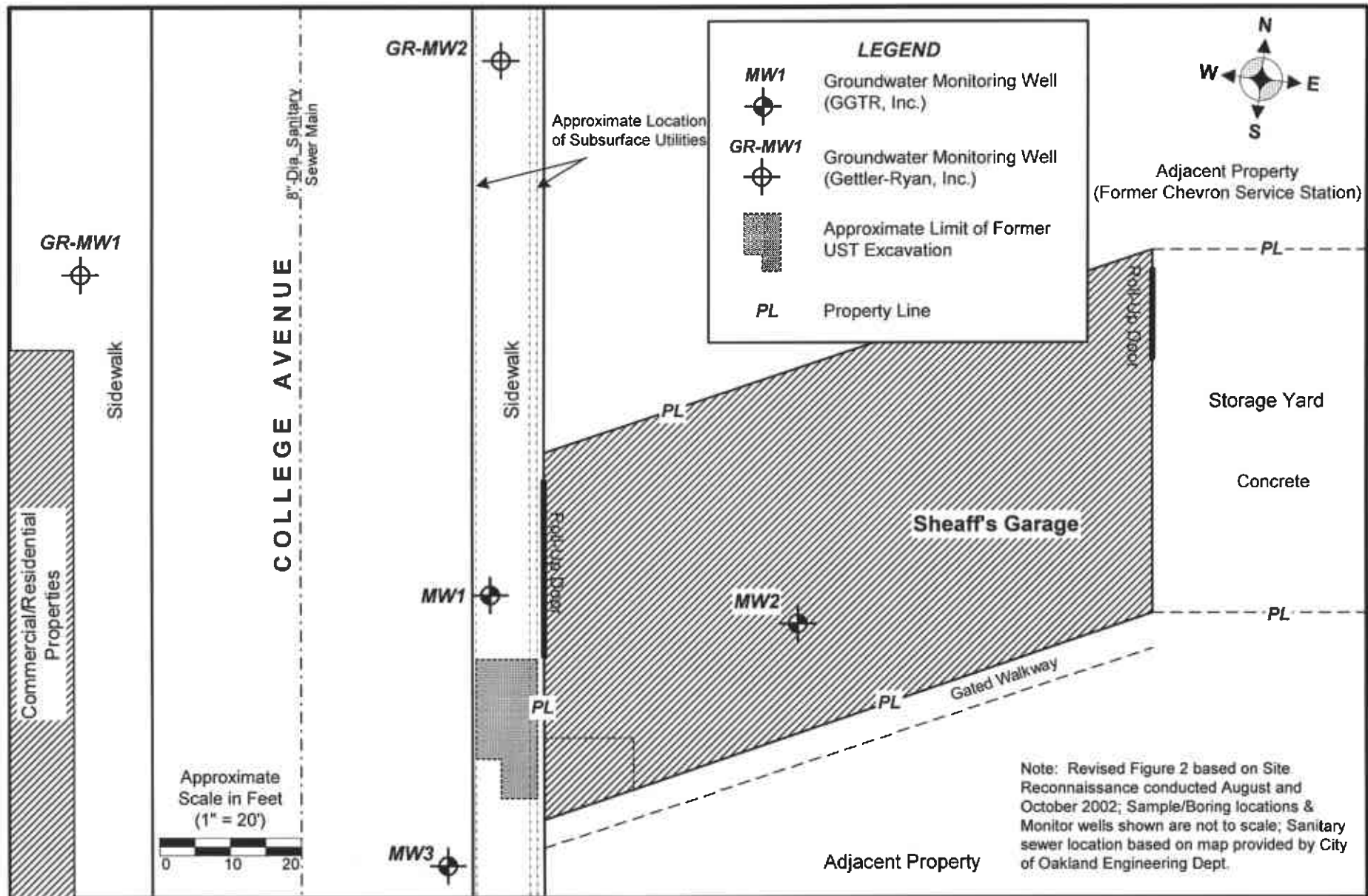
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<p><b>GOLDEN GATE TANK REMOVAL, INC.</b>          255 Shipley Street          San Francisco, California 94107          Ph (415) 512-1555 Fx (415) 512-0964</p>	<p><b>SITE LOCATION MAP</b>          Sheaff's Garage          5930 College Avenue       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



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

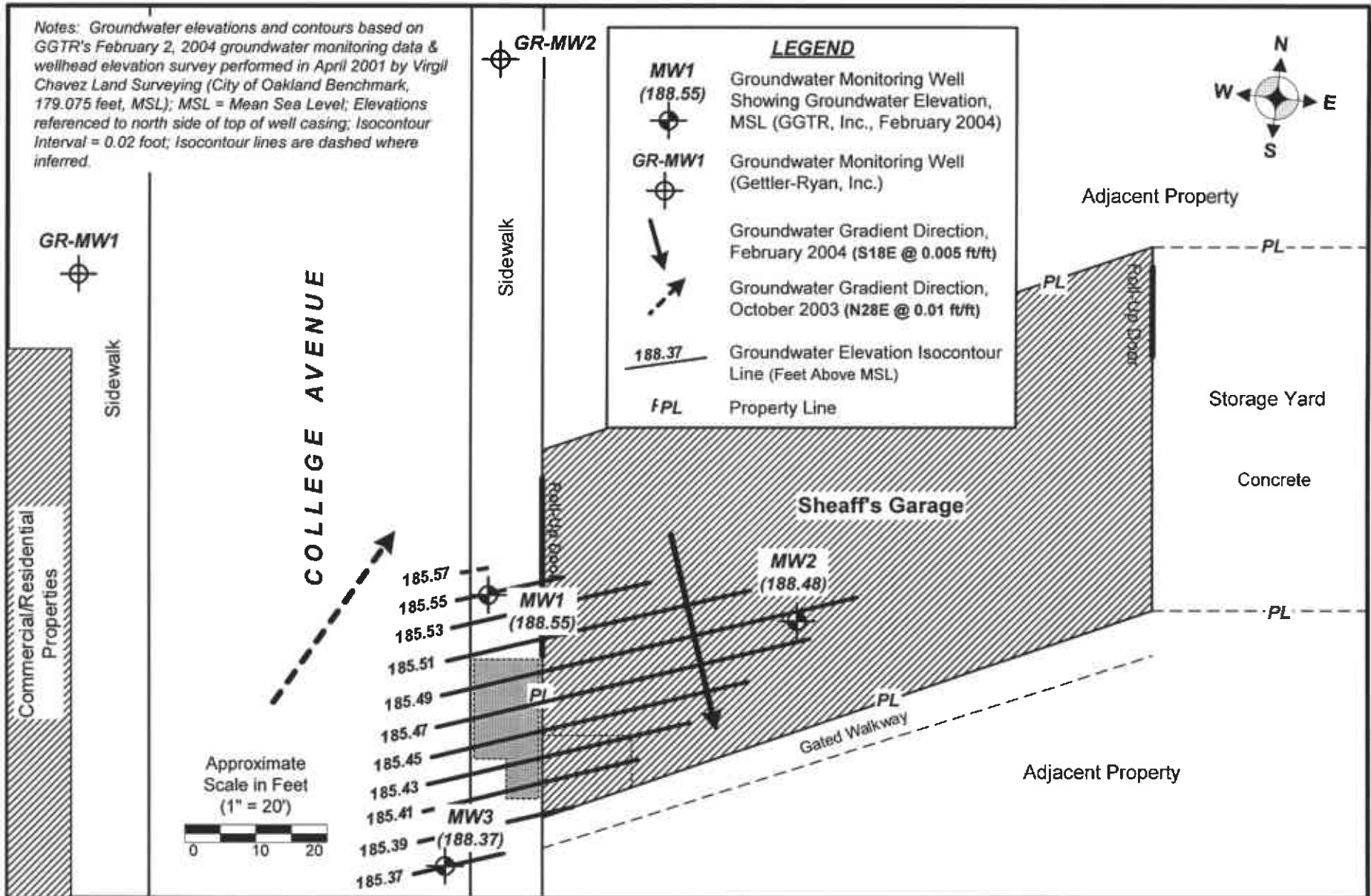
GGTR Project No. 7335

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Revision By: baw/10.03

**FIGURE 2**

Notes: Groundwater elevations and contours based on GGTR's February 2, 2004 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 = 0.02 foot; Isocontour lines are dashed where inferred.



**GOLDEN GATE TANK REMOVAL, INC.**  
 255 Shipley Street  
 San Francisco, California 94107  
 Phone (415) 512-1555 Fax (415) 512-0964

**GROUNDWATER ELEVATION POTENTIOMETRIC MAP**  
 Sheaff's Garage  
 5930 College Avenue, Oakland, California

GGTR Project No. 7335





FN: 7335.GWM.F3.02.04

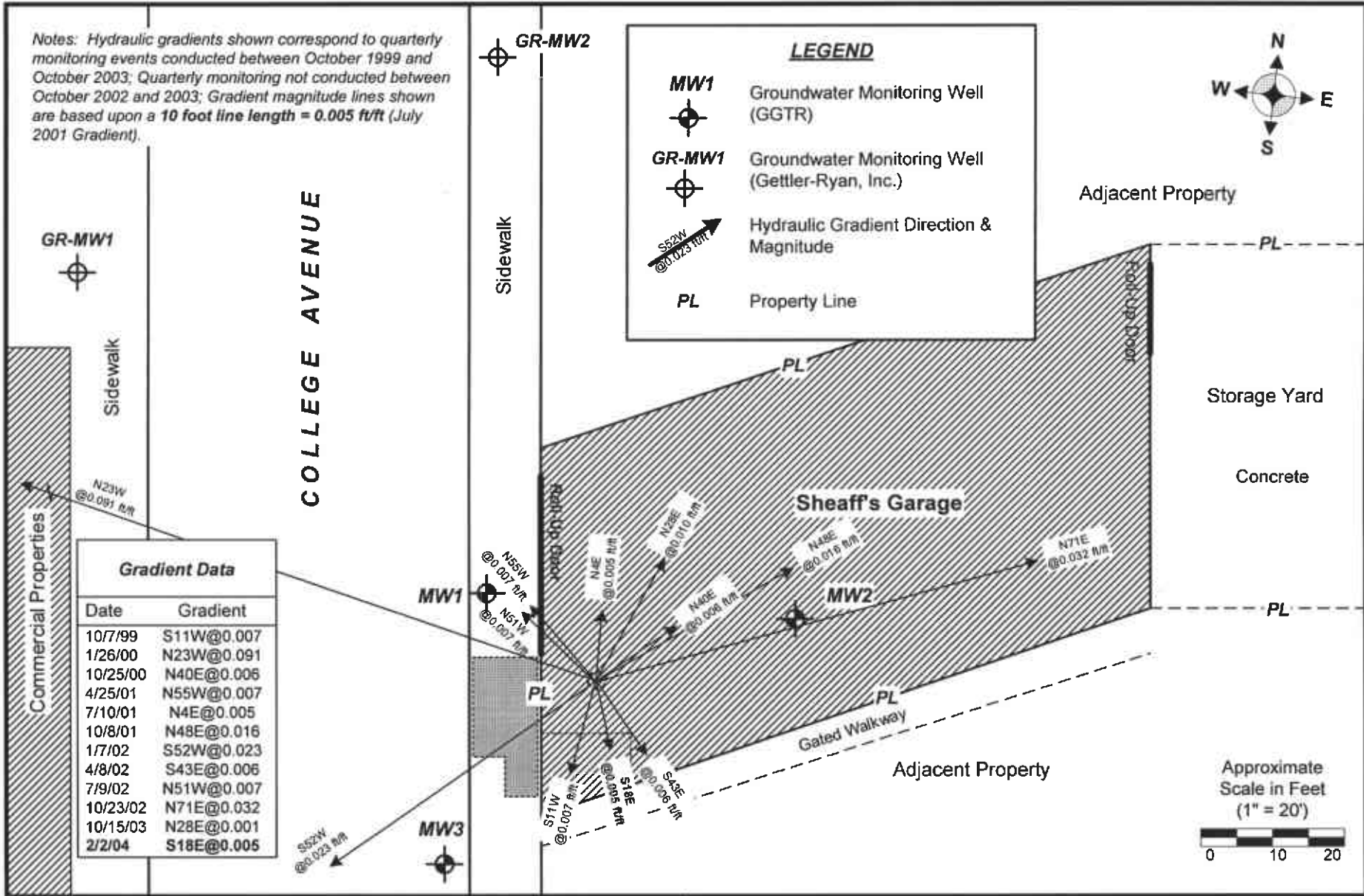
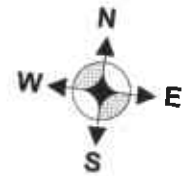
Revision By: baw/02.04

FIGURE 3

Notes: Hydraulic gradients shown correspond to quarterly monitoring events conducted between October 1999 and October 2003; Quarterly monitoring not conducted between October 2002 and 2003; Gradient magnitude lines shown are based upon a 10 foot line length = 0.005 ft/ft (July 2001 Gradient).

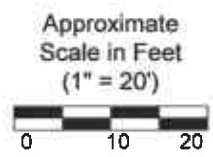
**LEGEND**

-  MW1 Groundwater Monitoring Well (GGTR)
-  GR-MW1 Groundwater Monitoring Well (Gettler-Ryan, Inc.)
-  Hydraulic Gradient Direction & Magnitude
-  PL Property Line



**Gradient Data**

Date	Gradient
10/7/99	S11W@0.007
1/26/00	N23W@0.091
10/25/00	N40E@0.006
4/25/01	N55W@0.007
7/10/01	N4E@0.005
10/8/01	N48E@0.016
1/7/02	S52W@0.023
4/8/02	S43E@0.006
7/9/02	N51W@0.007
10/23/02	N71E@0.032
10/15/03	N28E@0.001
2/2/04	S18E@0.005



**GOLDEN GATE TANK REMOVAL, INC.**  
 255 Shipley Street  
 San Francisco, California 94107  
 Phone (415) 512-1555 Fax (415) 512-0964

**ROSE DIAGRAM: HISTORICAL HYDRAULIC GRADIENT**  
 Sheaff's Garage  
 5930 College Avenue, Oakland, California



**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)
MW1	06/01/98	50.00 <sup>1</sup>	4.81	45.19	slight sheen	160,000	ND	--	1,900	28,000 / 21,000 / 3,800 / 21,000
	09/10/98	50.00 <sup>1</sup>	7.50	42.50	odor	290,000	ND	--	440	<50 / 25,000 / 7,100 / 32,000
	10/07/99	50.00 <sup>1</sup>	10.04	39.96	odor	85,000	ND	--	1,100	20,000 / 13,000 / 3,800 / 17,000
	01/26/00	50.00 <sup>1</sup>	8.26	41.74	slight sheen	130,000	--	--	470	25,000 / 18,000 / 4,500 / 22,000
	10/25/00	50.00 <sup>1</sup>	10.10	39.90	odor	130,000	--	ND	1,300	23,000 / 12,000 / 3,900 / 18,000
	02/02/01	50.00 <sup>1</sup>	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 <sup>3</sup>	21,100 / 13,500 / 4,160 / 21,900
	04/08/02	195.90	6.84	189.06	slight odor	111,000	--	1,040 <sup>2</sup>	814 (679 <sup>1</sup> )	21,200 / 13,400 / 4,230 / 21,000
	07/09/02	195.90	9.40	186.50	slight odor	110,000	--	573 <sup>4</sup>	746 (570 <sup>1</sup> )	20,300 / 13,300 / 4,060 / 19,800
	10/23/02	195.90	11.04	184.86	none	54,100	--	41,482 <sup>5</sup>	1,010 (1,080 <sup>1</sup> )	10,800 / 3,870 / 2,320 / 9,440
10/15/03	195.90	10.80	185.10	none	90,700	--	47,837 <sup>8</sup>	534 (724 <sup>1</sup> )	17,800 / 4,740 / 3,150 / 13,900	
02/02/04	195.90	7.35	188.55	none	108,000	--	50,118 <sup>12</sup>	216 (194 <sup>1</sup> )	14,200 / 7,420 / 3,450 / 19,800	
MW2	10/07/99	51.42 <sup>1</sup>	11.49	39.93	slight/odor	18,000	ND	--	490	3,000 / 1,700 / 1,000 / 3,900
	01/26/00	51.42 <sup>1</sup>	7.85	43.57	none	42,000	--	--	560	9,300 / 2,200 / 2,300 / 7,700
	10/25/00	51.42 <sup>1</sup>	11.57	39.85	slight/odor	31,000	--	ND	500	5,500 / 370 / 1,700 / 2,600
	02/02/01	51.42 <sup>1</sup>	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 <sup>3</sup>	10,300 / 3,250 / 4,180 / 14,400
	04/08/02	197.28	8.40	188.88	slight odor	66,700	--	--	583 <sup>3</sup>	10,200 / 2,670 / 3,840 / 13,200
	07/09/02	197.28	10.55	186.73	slight odor	37,100	--	298 (MTBE)	303 (298 <sup>3</sup> )	5,340 / 890 / 2,110 / 6,920
	10/23/02	197.28	13.85	183.43	none	13,300	--	8,686 <sup>6</sup>	322 (360 <sup>3</sup> )	2,420 / 216 / 922 / 1,470
10/15/03	197.28	12.38	184.90	none	11,300	--	6,642 <sup>9</sup>	264 (322 <sup>3</sup> )	2,660 / 51 / 1,180 / 1,220	
02/02/04	197.28	8.80	188.48	none	21,700	--	8,020 <sup>13</sup>	168 (200 <sup>3</sup> )	2,130 / 51 / 1,030 / 2,060	
Laboratory Reporting 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 (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)
MW3	10/07/99	49.39 <sup>1</sup>	9.67	39.72	none	6,600	ND	--	390	310 / 110 / 430 / 1,000
	01/26/00	49.39 <sup>1</sup>	5.40	43.99	none	3,300	--	--	40	110 / 8 / 100 / 32
	10/25/00	49.39 <sup>1</sup>	9.24	40.15	slight odor	4,500	--	ND	ND	100 / 2 / 120 / 130
	02/02/01	49.39 <sup>1</sup>	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 <sup>3</sup>	723 / 138 / 492 / 887
	04/08/02	195.22	6.33	188.89	odor	11,700	--	--	ND <sup>3</sup>	540 / 108 / 706 / 1,710
	07/09/02	195.22	8.56	186.66	odor	2,320	--	20 (MTBE)	28.3 (20 <sup>3</sup> )	37.1 / 4.7 / 98.5 / 187
	10/23/02	195.22	10.02	185.20	Sheen/odor	2,830	--	865 <sup>7</sup>	ND (ND <sup>3</sup> )	46.8 / 4.7 / 43.6 / 65.5
10/15/03	195.22	9.80	185.42	Sheen/odor	3,040	--	436 <sup>10</sup>	ND (ND <sup>3</sup> )	91.3 / 8.4 / 69.9 / 148	
02/02/04	195.22	6.85	188.37	Sheen/odor	5,140	--	769.5 <sup>14</sup>	ND (ND <sup>3</sup> )	126 / 8.7 / 134 / 238	
TB	02/02/04	NA				--	--	--	--	ND / ND / ND / ND
Laboratory Reporting Limit						50	5,000	<50	0.5 (1)	0.5 / 0.5 / 0.5 / 1.0
CRWQCB MSWQO (MCL)						NC	NC	Varies	5 <sup>11</sup>	1 / 150 / 700 / 1,750
CRWQCB July 2003 ESL						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; TB = Trip Blank  
ND - not detected above laboratory reporting limit  
NC - no criteria established; NA - not applicable  
-- - not analyzed for this constituent  
fbg - 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):**

- <sup>1</sup> - Arbitrary datum point with assumed elevation of 50 feet used prior to MSL survey on April 26, 2001
- <sup>2</sup> - Fuel oxygenate concentrations reported as 1,2-Dichloroethane (361 ug/l) and MTBE (679 ug/l)
- <sup>3</sup> - Concentration confirmed by EPA Method 8260 (analysis of VOCs of Fuel Oxygenates)
- <sup>4</sup> - Fuel oxygenate concentrations reported as 1,2-Dichloroethane (3 ug/l) and MTBE (570 ug/l)
- <sup>5</sup> - 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
- <sup>6</sup> - 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
- <sup>7</sup> - 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
- <sup>8</sup> - 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)
- <sup>9</sup> - 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)
- <sup>10</sup> - 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)
- <sup>11</sup> - Secondary Maximum Contaminant Level established by CRWQCB
- <sup>12</sup> - VOC concentrations reported as 194 ug/l MTBE, 14,700 ug/l benzene, 7,620 ug/l toluene, 3,940 ug/l ethylbenzene, 18,710 ug/l total xylenes, 47 ug/l 4-methyl-2-pentanone, 116 ug/l isopropylbenzene, 342 ug/l n-propylbenzene, 701 ug/l 1,3,5-trimethylbenzene, 2,690 ug/l 1,2,4-trimethylbenzene, 66 ug/l n-butylbenzene, 992 ug/l naphthalene, and ND<50 ug/L 1,2-dibromoethane (EDB) & ND<100 ug/L 1,2-dichloroethane (EDC)
- <sup>13</sup> - VOC concentrations reported as 200 ug/l MTBE, 2,370 ug/l benzene, 92 ug/l toluene, 1,200 ug/l ethylbenzene, 2,024 ug/l total xylenes, 73 ug/l isopropylbenzene, 186 ug/l n-propylbenzene, 306 ug/l 1,3,5-trimethylbenzene, 1,090 ug/l 1,2,4-trimethylbenzene, 66 ug/l n-butylbenzene, 413 ug/l naphthalene, and ND<5 ug/L 1,2-dibromoethane (EDB) & ND<10 ug/L 1,2-dichloroethane (EDC)
- <sup>14</sup> - VOC concentrations reported as 110 ug/l benzene, 6.4 ug/l toluene, 148 ug/l ethylbenzene, 238.1 ug/l total xylenes, 23 ug/l isopropylbenzene, 83 ug/l n-propylbenzene, 22 ug/l 1,3,5-trimethylbenzene, 68 ug/l 1,2,4-trimethylbenzene, 38 ug/l n-butylbenzene, 33 ug/l naphthalene, and ND<0.5 ug/L 1,2-dibromoethane (EDB) & ND<1 ug/L 1,2-dichloroethane (EDC)

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 I Environmental (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 SHEETS  
GEOTRACKER AB2886 UPLOAD CONFIRMATION FORMS**

**QUARTERLY GROUNDWATER MONITORING REPORT  
February 2, 2004**

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

GGTR Project No. 7335  
March 29, 2004



North State Labs

CA ELAP# 1753

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

## Case Narrative

Client: Golden Gate Tank Removal

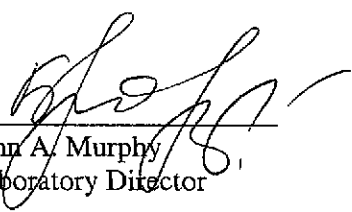
Project: 5930 COLLEGE AVE. OAKLAND

Lab No: 04-0132

Date Received: 02/02/2004

Date reported: 02/09/2004

Four water samples were received under chain of custody control on 02/02/2004. Three of those samples were analyzed for gasoline by method 8015M, BTEX and MTBE by method 8021B and for volatile organic compounds by GC/MS method 8260B, and one sample 7335-TB - for BTEX by 8021B only. The QC/QA results within acceptance limits. No errors occurred during analysis



John A. Murphy  
Laboratory Director



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

Lab Number: 04-0132  
Client: Golden Gate Tank  
Project: 5930 COLLEGE AVE. OAKLAND

Date Reported: 02/09/2004

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

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 04-0132-01 Client ID: 7335-MW-1 02/02/2004 W					
Benzene	SW8020F	14200	UG/L		02/05/2004
Ethylbenzene	SW8020F	3450	UG/L		02/05/2004
Gasoline Range Organics	SW8020F	108000	UG/L		02/05/2004
Methyl-tert-butyl ether	SW8020F	*216	UG/L		02/05/2004
Toluene	SW8020F	7420	UG/L		02/05/2004
Xylenes	SW8020F	19800	UG/L		02/05/2004
Sample: 04-0132-02 Client ID: 7355-MW-2 02/02/2004 W					
Benzene	SW8020F	2130	UG/L		02/05/2004
Ethylbenzene	SW8020F	1030	UG/L		02/05/2004
Gasoline Range Organics	SW8020F	21700	UG/L		02/05/2004
Methyl-tert-butyl ether	SW8020F	*168	UG/L		02/05/2004
Toluene	SW8020F	51	UG/L		02/05/2004
Xylenes	SW8020F	2060	UG/L		02/05/2004
Sample: 04-0132-03 Client ID: 7335-MW-3 02/02/2004 W					
Benzene	SW8020F	126	UG/L		02/05/2004
Ethylbenzene	SW8020F	134	UG/L		02/05/2004
Gasoline Range Organics	SW8020F	5140	UG/L		02/05/2004
Methyl-tert-butyl ether	SW8020F	*ND<0.5	UG/L		02/05/2004
Toluene	SW8020F	8.7	UG/L		02/05/2004
Xylenes	SW8020F	238	UG/L		02/05/2004

\*Confirmed by GC/MS method 8260B.



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

Lab Number: 04-0132  
Client: Golden Gate Tank  
Project: 5930 COLLEGE AVE. OAKLAND

Date Reported: 02/09/2004

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

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 04-0132-04	Client ID: 7335-TB			02/02/2004	W
Benzene	SW8020F	ND<0.5	UG/L		02/05/2004
Ethylbenzene	SW8020F	ND<0.5	UG/L		02/05/2004
Toluene	SW8020F	ND<0.5	UG/L		02/05/2004
Xylenes	SW8020F	ND<1.0	UG/L		02/05/2004



# North State Labs

CA ELAP# 1753

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

## 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

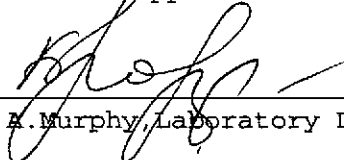
Lab Number: 04-0132  
Client: Golden Gate Tank  
Project: 5930 COLLEGE AVE. OAKLAND

Date Reported: 02/09/2004  
Gasoline, BTEX and MTBE by Methods 8015M/8021B

Analyte	Method	Reporting Unit	Blank	Avg MS/MSD	RPD	
		Limit		Recovery		
Gasoline Range Organics	SW8020F	50	UG/L	ND	135/119	13
Benzene	SW8020F	0.5	UG/L	ND	96/99	3
Toluene	SW8020F	0.5	UG/L	ND	108/106	2
Ethylbenzene	SW8020F	0.5	UG/L	ND	115/111	4
Xylenes	SW8020F	1.0	UG/L	ND	119/114	4
Methyl-tert-butyl ether	SW8020F	0.5	UG/L	ND	87/93	7

ELAP Certificate NO:1753

Reviewed and Approved

  
John A. Murphy, Laboratory Director





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

Job Number: 04-0132  
Client : Golden Gate Tank  
Project : 5930 COLLEGE AVE. OAKLAND

Date Sampled : 02/02/2004  
Date Analyzed: 02/05/2004  
Date Reported: 02/09/2004

## Volatile Organics by GC/MS Method 8260

Laboratory Number	04-0132-01	04-0132-02	04-0132-03
Client ID	7335-MW-1	7355-MW-2	7335-MW-3
Matrix	W	W	W
Analyte	UG/L	UG/L	UG/L
Bromochloromethane	ND<10	ND<10	ND<1
Dichlorodifluoromethane	ND<10	ND<10	ND<1
Chloromethane	ND<10	ND<10	ND<1
Vinyl chloride	ND<5	ND<5	ND<0.5
Bromomethane	ND<10	ND<10	ND<1
Chloroethane	ND<10	ND<10	ND<1
Trichlorofluoromethane	ND<10	ND<10	ND<1
1,1-Dichloroethene	ND<5	ND<5	ND<0.5
Acetone	ND<100	ND<100	ND<10
Methylene chloride	ND<50	ND<50	ND<5
trans-1,2-Dichloroethene	ND<10	ND<10	ND<1
Methyl-tert-butyl ether	194	200	ND<0.5
1,1-Dichloroethane	ND<5	ND<5	ND<0.5
2,2-Dichloropropane	ND<10	ND<10	ND<1
cis-1,2-Dichloroethene	ND<10	ND<10	ND<1
2-Butanone	ND<50	ND<50	ND<5
Chloroform	ND<5	ND<5	ND<0.5
Carbon tetrachloride	ND<5	ND<5	ND<0.5
1,1-Dichloropropene	ND<10	ND<10	ND<1
Benzene	14700	2370	110
1,2-Dichloroethane	ND<10	ND<10	ND<1
Trichloroethene	ND<5	ND<5	ND<0.5
1,2-Dichloropropane	ND<10	ND<10	ND<1
Dibromomethane	ND<10	ND<10	ND<1
Bromodichloromethane	ND<10	ND<10	ND<1
trans-1,3-Dichloropropene	ND<10	ND<10	ND<1
4-Methyl-2-pentanone	47	ND<10	ND<1
Toluene	7620	92	6.4
cis-1,3-Dichloropropene	ND<10	ND<10	ND<1
1,1,2-Trichloroethane	ND<10	ND<10	ND<1
Tetrachloroethene	ND<5	ND<5	ND<0.5
1,3-Dichloropropane	ND<10	ND<10	ND<1
2-Hexanone	ND<10	ND<10	ND<1
Dibromochloromethane	ND<10	ND<10	ND<1
1,2-Dibromoethane	ND<5	ND<5	ND<0.5

Comments:



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

Job Number: 04-0132  
Client : Golden Gate Tank  
Project : 5930 COLLEGE AVE. OAKLAND

Date Sampled : 02/02/2004  
Date Analyzed: 02/05/2004  
Date Reported: 02/09/2004

Volatile Organics by GC/MS Method 8260

Laboratory Number	04-0132-01	04-0132-02	04-0132-03
Client ID	7335-MW-1	7355-MW-2	7335-MW-3
Matrix	W	W	W
Analyte	UG/L	UG/L	UG/L
Chlorobenzene	ND<10	ND<10	ND<1
1,1,1,2-Tetrachloroethane	ND<10	ND<10	ND<1
Ethylbenzene	3940	1200	148
Xylene, Isomers m & p	12700	1970	219
o-Xylene	6010	54	19.1
Styrene	ND<10	ND<10	ND<1
Bromoform	ND<10	ND<10	ND<1
Isopropylbenzene	116	73	23
Bromobenzene	ND<10	ND<10	ND<1
1,1,2,2-Tetrachloroethane	ND<10	ND<10	ND<1
n-Propylbenzene	342	186	83
2-Chlorotoluene	ND<10	ND<10	ND<1
4-Chlorotoluene	ND<10	ND<10	ND<1
1,3,5-Trimethylbenzene	701	306	22
tert-Butylbenzene	ND<10	ND<10	ND<1
1,2,4-Trimethylbenzene	2690	1090	68
1,3-Dichlorobenzene	ND<10	ND<10	ND<1
1,4-Dichlorobenzene	ND<10	ND<10	ND<1
sec-Butylbenzene	ND<10	ND<10	ND<1
1,2-Dichlorobenzene	ND<10	ND<10	ND<1
n-Butylbenzene	66	66	38
Naphthalene	992	413	33
1,2,4-Trichlorobenzene	ND<10	ND<10	ND<1
Hexachlorobutadiene	ND<10	ND<10	ND<1
1,2,3-Trichlorobenzene	ND<10	ND<10	ND<1
1,2,3-Trichloropropane	ND<10	ND<10	ND<1
Acetonitrile	ND<50	ND<50	ND<5
Acrylonitrile	ND<10	ND<10	ND<1
Isobutanol	ND<50	ND<50	ND<5
1,1,1-Trichloroethane	ND<10	ND<10	ND<1
SUR-Dibromofluoromethane	100	102	104
SUR-Toluene-d8	101	99	100
SUR-4-Bromofluorobenzene	96	96	96
SUR-1,2-Dichloroethane-d4	90	91	94

Comments:



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

Job Number: 04-0132
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE. OAKLAND

Date Sampled : 02/02/2004
Date Analyzed: 02/05/2004
Date Reported: 02/09/2004

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

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various chemical analytes and their corresponding results and recovery data.



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

Job Number: 04-0132
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE. OAKLAND

Date Sampled : 02/02/2004
Date Analyzed: 02/05/2004
Date Reported: 02/09/2004

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

Laboratory Number 04-0132 MS/MSD RPD Recovery RPD
Client ID Blank Recovery Limit Limit
Matrix W W

Table with columns: Analyte, Results UG/L, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various analytes like Bromoform, Isopropylbenzene, etc., with their respective results and recovery percentages.

Reviewed and Approved

Handwritten signature of John A. Murphy, Laboratory Director



# North State Labs

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

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

04-0132

Chain of Custody / Request for Analysis

Lab Job No.: \_\_\_\_\_ Page 1 of 1

Client: <u>GOLDEN GATE TANK REMOVAL</u> Mailing Address: <u>66TH</u> <u>295 SHIPLEY ST</u> <u>S.F. CA 94107</u>	Report to: <u>BRENT WHEELER</u>	Phone: <u>415 912 1955</u>	Turnaround Time <u>500 TAT</u>	
	Billing to: → SAME	Fax: <u>415 912 0964</u>		
			email:	Date: <u>02-02-04</u>
			PO# <u>7335</u>	Sampler: <u>KVAN A.</u>

Project / Site Address / Global ID: TD600102112  
5930 COLLEGE AVE DAKLAND CA

Analysis Requested

Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPH-S	BTEX	MTBE	GW(SDZDF)	VOCS (SL60)	EDF <input checked="" type="checkbox"/>	Field Point ID
1 7335-MW-1	<u>GROUND</u> <u>H2O</u>	<u>4 VOAS</u>	<u>HEI</u>	<u>02-04 / 1220</u>	X	X	X	X			<u>7335-MW-1</u>
2 7335-MW-2	↓	↓	↓	↓ / <u>1240</u>	X	X	X	X			<u>7335-MW-2</u>
3 7335-MW-3	↓	↓	↓	↓ / <u>1205</u>	X	X	X	X			<u>7335-MW-3</u>
4 7335-TB		<u>2/VOAS</u>	↓	↓ / <u>0800</u>		X					<u>7335-TB</u>

Relinquished by: <u>KVAN ATKINSON</u>	Date: <u>02-02-04</u>	Time: <u>11031</u>	Received by: <u>[Signature]</u>	Lab Comments/ Hazards
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	

# NORTH STATE ENVIRONMENTAL

## FLUID-LEVEL MONITORING DATA

Project No: 7335 Date: 02-02-04

Project/Site Location: SHEAFFS GARAGE 5930 COLWELL AVE OAKLAND CA

Technician: KIM ATKINSON Method: ELECTRONIC

Boring/ Well	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)	Comments
MW-1	7.35			14.40	@ 1132
MW-2	8.80			19.60	@ 1135
MW-3	6.85			18.75	@ 1130

# NORTH STATE ENVIRONMENTAL

## WELL PURGING/SAMPLING DATA

Project Number: 7335 Date: 02-02-04

Project / Site Location: SMEAFFS GARAGE  
5930 COLLEGE AVE OAKLAND CA

Sampler/Technician: KIAN ANDERSON

Casing/Borehole Diameter (inches)	0.75/1.75	Ø8	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

Well No. <u>MW-1</u>	Well No. <u>MW-2</u>
A. Total Well Depth <u>14.40</u> Ft.(toc)	A. Total Well Depth <u>19.60</u> Ft.(toc)
B. Depth To Water <u>7.95</u> Ft	B. Depth To Water <u>8.80</u> Ft
C. Water Height (A-B) <u>7.05</u> Ft	C. Water Height (A-B) <u>10.80</u> Ft
D. Well Casing Diameter <u>2</u> In.	D. Well Casing Diameter <u>2</u> In.
E. Casing Volume Constant (from above table) <u>.2</u>	E. Casing Volume Constant (from above table) <u>.2</u>
F. Three (3) Casing or Borehole Volumes (CxEx3) <u>4.23</u> <sup>1.41</sup> Gals.	F. Three (3) Casing or Borehole Volumes (CxEx3) <u>6.48</u> <sup>2.16</sup> Gals.
G. 80% Recharge Level [B+(ExC)] <u>8.76</u> Ft	G. 80% Recharge Level [B+(ExC)] <u>10.96</u> Ft
<u>Purge Event #1</u>	<u>Purge Event #1</u>
Start Time: <u>12:10</u>	Start Time: <u>12:25</u>
Finish Time: <u>12:15</u>	Finish Time: <u>12:35</u>
Purge Volume: <u>4.5</u>	Purge Volume: <u>7</u>
<u>Recharge #1</u>	<u>Recharge #1</u>
Depth to Water:	Depth to Water:
Time Measured:	Time Measured:
<u>Purge Event #2</u>	<u>Purge Event #2</u>
Start Time:	Start Time:
Finish Time:	Finish Time:
Purge Volume:	Purge Volume:
<u>Recharge #2</u>	<u>Recharge #2</u>
Depth to Water:	Depth to Water:
Time Measured:	Time Measured:
<b>Well Fluid Parameters:</b>	<b>Well Fluid Parameters:</b>
(Casing or Borehole Volumes)	(Casing or Borehole Volumes)
pH <u>0</u> <u>1</u> <del>1.0</del> <u>2</u> <del>2.0</del> <u>3</u>	pH <u>0</u> <u>1</u> <del>1.0</del> <u>2</u> <del>2.0</del> <u>3</u>
<u>6.48</u> <u>6.48</u> <u>6.46</u> <u>6.47</u>	<u>6.61</u> <u>6.60</u> <u>6.48</u> <u>6.46</u>
T(°F) <u>60.3</u> <u>61.8</u> <u>62.0</u> <u>62.1</u>	T(°F) <u>62.4</u> <u>62.7</u> <u>63.3</u> <u>62.9</u>
Cond. <u>699</u> <u>719</u> <u>721</u> <u>720</u>	Cond. <u>762</u> <u>773</u> <u>763</u> <u>747</u>
DO <u>2.35/23.5%</u>	DO <u>2.25/23.5%</u>
Turbidity	Turbidity
ORP <u>-037</u>	ORP <u>-048</u>
<b>Summary Data:</b>	<b>Summary Data:</b>
Total Gallons Purged: <u>4.5</u>	Total Gallons Purged: <u>7</u>
Purge device: <u>DL-60</u>	Purge device: <u>DL-60</u>
Sampling Device: <u>DISP. BAWEL</u>	Sampling Device: <u>DISP. BAWEL</u>
Sample Collection Time: <u>12:20</u>	Sample Collection Time: <u>12:40</u>
Sample Appearance:	Sample Appearance: <u>ODOR</u>

Drums Remaining Onsite: \_\_\_\_\_ Total Volume: \_\_\_\_\_ Gals. (Show Location on Site Plan)

# NORTH STATE ENVIRONMENTAL

## WELL PURGING/SAMPLING DATA

Project Number: 7335 Date: 02-02-04

Project / Site Location: SHEAFFS GARAGE

5930 ROUTE AVE OAKLAND CA

Sampler/Technician: WYN ATKINSON

Casing/Borehole Diameter (inches)	0.75/1.75	2/8	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

<p>Well No. <u>MW-3</u></p> <p>A. Total Well Depth <u>18.75</u> Ft.(toc)</p> <p>B. Depth To Water <u>6.85</u> Ft.</p> <p>C. Water Height (A-B) <u>11.90</u> Ft.</p> <p>D. Well Casing Diameter <u>2</u> In.</p> <p>E. Casing Volume Constant (from above table) <u>12</u></p> <p>F. Three (3) Casing or Borehole Volumes (CxEx3) <u>7.14</u> Gals.</p> <p>G. 80% Recharge Level [B+(ExC)] <u>9.23</u> Ft.</p> <p><u>Purge Event #1</u>                  Start Time: <u>1145</u>                  Finish Time: <u>1200</u>                  Purge Volume: <u>7.5</u></p> <p><u>Recharge #1</u>                  Depth to Water:                  Time Measured:</p> <p><u>Purge Event #2</u>                  Start Time:                  Finish Time:                  Purge Volume:</p> <p><u>Recharge #2</u>                  Depth to Water:                  Time Measured:</p> <p><b>Well Fluid Parameters:</b>                  (Casing or Borehole Volumes)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;"><u>1</u></td> <td style="text-align: center;"><u>1.5</u></td> <td style="text-align: center;"><u>2</u></td> <td style="text-align: center;"><u>2.5</u></td> <td style="text-align: center;"><u>3</u></td> </tr> <tr> <td>pH</td> <td><u>6.26</u></td> <td><u>6.24</u></td> <td><u>6.24</u></td> <td><u>6.21</u></td> <td><u>6.42</u></td> <td><u>6.42</u></td> </tr> <tr> <td>T (°F)</td> <td><u>60.9</u></td> <td><u>60.1</u></td> <td><u>61.2</u></td> <td><u>61.2</u></td> <td><u>60.5</u></td> <td><u>60.5</u></td> </tr> <tr> <td>Cond.</td> <td><u>421</u></td> <td><u>388</u></td> <td><u>430</u></td> <td><u>430</u></td> <td><u>418</u></td> <td><u>418</u></td> </tr> <tr> <td>DO</td> <td><u>2.66</u></td> <td><u>2.89</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Turbidity</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ORP</td> <td><u>-071</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p><b>Summary Data:</b>                  Total Gallons Purged: <u>7.5</u>                  Purge device: <u>D-60</u>                  Sampling Device: <u>D-50 BAWER</u>                  Sample Collection Time: <u>1205</u>                  Sample Appearance:</p>		<u>0</u>	<u>1</u>	<u>1.5</u>	<u>2</u>	<u>2.5</u>	<u>3</u>	pH	<u>6.26</u>	<u>6.24</u>	<u>6.24</u>	<u>6.21</u>	<u>6.42</u>	<u>6.42</u>	T (°F)	<u>60.9</u>	<u>60.1</u>	<u>61.2</u>	<u>61.2</u>	<u>60.5</u>	<u>60.5</u>	Cond.	<u>421</u>	<u>388</u>	<u>430</u>	<u>430</u>	<u>418</u>	<u>418</u>	DO	<u>2.66</u>	<u>2.89</u>					Turbidity							ORP	<u>-071</u>						<p>Well No. _____</p> <p>A. Total Well Depth _____ Ft.(toc)</p> <p>B. Depth To Water _____ Ft.</p> <p>C. Water Height (A-B) _____ Ft.</p> <p>D. Well Casing Diameter _____ In.</p> <p>E. Casing Volume Constant (from above table) _____</p> <p>F. Three (3) Casing or Borehole Volumes (CxEx3) _____ Gals.</p> <p>G. 80% Recharge Level [B+(ExC)] _____ Ft.</p> <p><u>Purge Event #1</u>                  Start Time:                  Finish Time:                  Purge Volume:</p> <p><u>Recharge #1</u>                  Depth to Water:                  Time Measured:</p> <p><u>Purge Event #2</u>                  Start Time:                  Finish Time:                  Purge Volume:</p> <p><u>Recharge #2</u>                  Depth to Water:                  Time Measured:</p> <p><b>Well Fluid Parameters:</b>                  (Casing or Borehole Volumes)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;"><u>1</u></td> <td style="text-align: center;"><u>1.5</u></td> <td style="text-align: center;"><u>2</u></td> <td style="text-align: center;"><u>2.5</u></td> <td style="text-align: center;"><u>3</u></td> </tr> <tr> <td>pH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>T (°F)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Cond.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DO</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Turbidity</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ORP</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p><b>Summary Data:</b>                  Total Gallons Purged:                  Purge device:                  Sampling Device:                  Sample Collection Time:                  Sample Appearance:</p>		<u>0</u>	<u>1</u>	<u>1.5</u>	<u>2</u>	<u>2.5</u>	<u>3</u>	pH							T (°F)							Cond.							DO							Turbidity							ORP						
	<u>0</u>	<u>1</u>	<u>1.5</u>	<u>2</u>	<u>2.5</u>	<u>3</u>																																																																																													
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Drums Remaining Onsite: \_\_\_\_\_ Total Volume: \_\_\_\_\_ Gals. (Show Location on Site Plan)



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45 records

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FACILITY NAME	TITLE	TYPE	SUBMITTED	SUBMITTAL STATUS	CONFIRMATION #
MC LEAN RESIDENCE	Monitor Well Survey XY Data: February 7, 2003	GEO_XY	5/29/2003	4 RECORDS RECEIVED	9905857682
MC LEAN RESIDENCE	Monitor Well Survey Elevation (Z) Data: Feb. 7, 2003	GEO_Z	5/29/2003	4 RECORDS RECEIVED	5055531144
MC LEAN RESIDENCE	Monitor Well Fluid Level Data: 12/7/02 & 1/20/03	GEO_WELL	5/29/2003	7 RECORDS RECEIVED	5833892643
Commercial Property	Well Survey - XY Data (MW1-MW5)	GEO_XY	6/10/2003	5 RECORDS RECEIVED	7932987809
Commercial Property	Well Survey Elevation (Z) Data (MW1-MW5)	GEO_Z	6/10/2003	5 RECORDS RECEIVED	6197971940
Commercial Property	Fluid-Level Data MW1-MW5 (4/30/03)	GEO_WELL	6/10/2003	5 RECORDS RECEIVED	9828129410
Circosta Iron & Metal Co.	May 20, 2003 Wellhead Coordinate Survey: MW-1	GEO_XY	7/2/2003	1 RECORD RECEIVED	5520664811
Circosta Iron & Metal Co.	May 20, 2003 Wellhead Elevation Survey: MW-1	GEO_Z	7/2/2003	1 RECORD RECEIVED	2107212662
Circosta Iron & Metal Co.	May 21, 2003 Fluid-Level Monitoring Data: MW-1	GEO_WELL	7/2/2003	1 RECORD RECEIVED	3968571305
Lee Mah Electronics	Wellhead Coordinate Survey: MW1-MW3 (1/16/2002)	GEO_XY	7/8/2003	3 RECORDS RECEIVED	9905033707
Lee Mah Electronics	Wellhead Elevation Survey: MW1-MW3 (1/16/2002)	GEO_Z	7/8/2003	3 RECORDS RECEIVED	7575912296
Lee Mah Electronics	Quarterly Fluid Level Monitoring Data: MW1-MW3 (1/02 - 1/03)	GEO_WELL	7/8/2003	15 RECORDS RECEIVED	4877258121
Borello's Cleaners	April 25, 2003 Fluid-Level Monitoring Data (MW1-MW3)	GEO_WELL	7/8/2003	3 RECORDS RECEIVED	6313465714
Commercial Building	Well Fluid Level Monitoring Data: MW1-MW3 (4/25/03)	GEO_WELL	7/10/2003	3 RECORDS RECEIVED	6627125382
MC LEAN RESIDENCE	Well Fluid Level Monitoring Data: MW1-MW4 (4/26/03)	GEO_WELL	7/10/2003	4 RECORDS RECEIVED	3685536026
Target Auto	Survey Coordinate Data (MW1-MW5); 4/21/02	GEO_XY	7/31/2003	5 RECORDS RECEIVED	7599532902
Target Auto	Survey Elevation Data (MW1-MW5); 4/21/02	GEO_Z	7/31/2003	5 RECORDS RECEIVED	1650044083
Target Auto	Well Fluid Level Monitoring Data: MW1-MW9 (5/2/03)	GEO_WELL	7/31/2003	9 RECORDS RECEIVED	9185272037
Borello's Cleaners	Fluid-Level Monitoring Data MW1-MW3 (7/23/03)	GEO_WELL	8/1/2003	3 RECORDS RECEIVED	4373280167
MC LEAN RESIDENCE	Well Fluid-Level Monitoring Data MW1-MW4, W1 (7/24/03)	GEO_WELL	8/1/2003	5 RECORDS RECEIVED	6036198258
Commercial Building	Well Fluid-Level Monitoring Data MW1-MW3 (7/23/03)	GEO_WELL	8/1/2003	3 RECORDS RECEIVED	9630003213
Target Auto	Survey Coordinate Data (MW6-MW9); 8/4/03	GEO_XY	8/7/2003	4 RECORDS RECEIVED	4571995377
Target Auto	Survey Elevation Data (MW6-MW9); 8/4/03	GEO_Z	8/7/2003	4 RECORDS RECEIVED	3883839249
VAIL BURNER & OIL CO	Survey Elevation Data (MW1-MW9); 7/29/03	GEO_Z	8/7/2003	9 RECORDS RECEIVED	1304386734
VAIL BURNER & OIL CO	Survey Coordinate Data (MW1-MW9); 7/29/03	GEO_XY	8/7/2003	9 RECORDS RECEIVED	7494750797
VAIL BURNER & OIL CO	Well Fluid Level Monitoring Data: MW1-MW9 (7/10/03)	GEO_WELL	8/7/2003	9 RECORDS RECEIVED	2561752140
Circosta Iron & Metal Co.	Fluid-Level Data MW1 (8/29/03)	GEO_WELL	9/25/2003	1 RECORD RECEIVED	4680897355
Lee Mah Electronics	Fluid-Level Monitoring Data MW1-MW3 (9/8/03)	GEO_WELL	10/2/2003	3 RECORDS RECEIVED	3065357804
VAIL BURNER & OIL CO	Well Fluid Level Monitoring Data: MW1-MW6 (12/01/01)	GEO_WELL	10/23/2003	6 RECORDS RECEIVED	4766708195
Commercial Building	Fluid-Level Monitoring Data MW2 & MW3 (10/23/03)	GEO_WELL	10/29/2003	3 RECORDS RECEIVED	5073933243
Target Auto	Fluid-Level Monitoring Data MW1-MW9 (8/15/03)	GEO_WELL	10/29/2003	9 RECORDS RECEIVED	8875889420
MC LEAN RESIDENCE	Fluid-Level Monitoring Data MW1-MW4 (10/24/03)	GEO_WELL	11/6/2003	4 RECORDS RECEIVED	1069671452
VAIL BURNER & OIL CO	Fluid-Level Monitoring Data: 11/4/03: MW1-MW9	GEO_WELL	12/15/2003	9 RECORDS RECEIVED	7626469254
Borello's Cleaners	Fluid-Level Monitoring Data: 10/23/03 (MW1-MW3)	GEO_WELL	12/29/2003	PENDING APPROVAL	9739277482

DELETE  
SUBMITTAL

Circosta Iron & Metal Co.	Fluid-Level Monitoring Data: MW1 (12.01.03)	GEO_WELL	1/14/2004	<b>PENDING APPROVAL</b>	6885696232		<a href="#">DELETE SUBMITTAL</a>
Circosta Iron & Metal Co.	GW Analytical Data: MW1 (12.01.03)	GWM_R	1/14/2004	<b>PENDING APPROVAL</b>	8120762288	<a href="#">VIEW SUBMITTAL</a>	<a href="#">DELETE SUBMITTAL</a>
CALIFORNIA EVERGREEN NURSERY	Monitor Wellhead Coordinate Data: MW1-MW3	GEO_XY	1/15/2004	<b>3 RECORDS RECEIVED</b>	3543400406		
Paggi Property	03-1658: Soil/GW Analytical Data, Borings B1-B3	PSA_R	3/18/2004	<b>PENDING APPROVAL</b>	4111341536	<a href="#">VIEW SUBMITTAL</a>	<a href="#">DELETE SUBMITTAL</a>
Paggi Property	03-1817: GW Analytical Data, 1426-WSW & 1700-MW	PSA_R	3/18/2004	<b>PENDING APPROVAL</b>	7127963542	<a href="#">VIEW SUBMITTAL</a>	<a href="#">DELETE SUBMITTAL</a>
Paggi Property	04-0308: GW Analytical Data, 1700-WSW	PSA_R	3/18/2004	<b>PENDING APPROVAL</b>	6479891955	<a href="#">VIEW SUBMITTAL</a>	<a href="#">DELETE SUBMITTAL</a>
Paggi Property	0312291: GW Organic Lead Data, 1426-WSW & 1700-MW	PSA_R	3/18/2004	<b>PENDING APPROVAL</b>	7609745144	<a href="#">VIEW SUBMITTAL</a>	<a href="#">DELETE SUBMITTAL</a>
SHEAFFS SERVICE GARAGE	04-0132: 2/2/04 GW Analytical Data (MW1-MW3)	GWM_R	3/26/2004	<b>PENDING APPROVAL</b>	1215436637	<a href="#">VIEW SUBMITTAL</a>	<a href="#">DELETE SUBMITTAL</a>
MC LEAN RESIDENCE	04-0128 (1/29/04 GW Analytical Data; MW1-MW4)	GWM_R	3/29/2004	<b>PENDING APPROVAL</b>	1339706063	<a href="#">VIEW SUBMITTAL</a>	<a href="#">DELETE SUBMITTAL</a>
MC LEAN RESIDENCE	Fluid-Level Monitoring Data MW1-MW4 (1/29/04)	GEO_WELL	3/29/2004	<b>PENDING APPROVAL</b>	1612965226		<a href="#">DELETE SUBMITTAL</a>
SHEAFFS SERVICE GARAGE	Fluid-Level Monitoring Data (MW1-MW3)	GEO_WELL	3/29/2004	<b>PENDING APPROVAL</b>	1600448429		<a href="#">DELETE SUBMITTAL</a>

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### UPLOADING A GEO\_WELL FILE

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**Submittal Date/Time:** 3/29/2004 11:44:29 AM

**Confirmation Number:** 1600448429

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