RO 377

# QUARTERLY GROUNDWATER MONITORING REPORT
## July 26, 2005

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

**ACHCSA Fuel Leak Case No. RO0000377**

Prepared For:

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GGTR Project No. 7335

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General Engineering Contractors License No. 616521

# QUARTERLY GROUNDWATER MONITORING REPORT
# July 26, 2005

**5930 College Avenue, Oakland, California**

## Introduction

This report presents the results and findings of the July 26, 2005 groundwater monitoring and sampling activities conducted by Golden Gate Tank Removal, Inc. (GGTR) at 5930 College Avenue in Oakland, California. This was the 19th quarterly monitoring event performed at the site for the three existing monitor wells, MW1 through MW3, and the second monitoring and sampling event for the piezometer well, PW1, installed at the site in April 2005. 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 Elevation 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. performed their most recent joint/biannual monitoring and sampling of GR-MW1 & GR-MW2 on April 14, 2004. 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 Stoddard Automotive, for the service and repair of automobiles. No active fuel storage or distribution system currently occupies the site. 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 were 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 in soil borings B10 and B11 was predominantly clayey, sandy silt.

The average depth to groundwater as measured in MW1-MW3 and PW1, during the July 2005 monitoring event was approximately 8.02 fbg, with an associated mean groundwater elevation of 188.37 feet above Mean Sea Level. 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 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 July 26, 2005 GGTR monitored and sampled MW1 through MW3 and PW1, in accordance with the requirements and procedures of the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) and the ACHCSA. Prior to purging and sampling, GGTR removed the well cover and locking compression cap from each well and allowed the groundwater in each well column to stabilize for approximately 20 minutes. GGTR then measured and recorded the depth to groundwater and presence of floating product using a Keck® electronic oil/water interface probe. GGTR also measured the dissolved oxygen (DO) of the groundwater (in situ) using a YSI55® DO meter to assess the occurrence of biodegradation in shallow groundwater beneath the site. DO was measured prior to purging only. Fluid levels were measured relative to the north side of the top of each well casing to the nearest 0.01 foot.

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

## Water Sample Analytical Methods

On July 27, 2005, GGTR submitted the groundwater samples collected from the three monitoring wells and piezometer well under formal chain of custody command to Entech Analytical Labs, Inc. State-certified, analytical laboratory (CA ELAP #2346) in Santa Clara, California 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; SW8021B)
- VOCs (GC/MS Method 8260B)

Entech completed all volatile organic analyses by August 1, 2005, which is in conformance with the 14-day required time limit for analysis. GGTR 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 Sampling Data Sheets 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 and PW1 ranged between 188.30 (MW1) and 188.54 (PW1) feet above Mean Sea Level.

To assess the historically fluctuating groundwater flow directions at the site, GGTR calculated the groundwater gradient for the July 2005 event using groundwater elevation data from both 1) MW1 through MW3 and 2) MW1, MW3, and PW1, to help determine whether groundwater in MW2 had stabilized prior to final monitoring. Both sets of data will be calculated for the next monitoring event and compared to regional groundwater flow direction data (west-southwest) to assess potential consistency over a period of three to four consecutive quarters. The gradient and flow direction for the two sets of data measured during the July 2005 event were approximately 0.0008 ft/ft, directed 56° west of north, and 0.0026 ft/ft 78° west of north, respectively. The associated groundwater gradient data calculated for the July 26, 2005 monitoring event is shown in Figure 3, *Groundwater Elevation Potentiometric Map.*

The table shown on the following page lists the historical data for MW1 through MW3, for mean groundwater elevation, flow direction, and groundwater slope for the site. The groundwater elevations prior to July 26, 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) to date across the site. The current gradient data, incorporating that of PW1, is shown in bold type.

**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 |
| 02/02/04 | 188.47 | 18° east of south | 0.5 foot / 100 feet |
| 04/23/04 | 189.00 | 77° east of south | 0.5 foot / 100 feet |
| 07/19/04 | 186.97 | 51° west of north | 0.1 foot / 100 feet |
| 10/22/04 | 186.49 | 82° west of north | 2.9 foot / 100 feet |
| 01/21/05 | 190.36 | 16° west of south | 1.25 foot / 100 feet |
| 04/14/05 | 190.01 | 13° east of south<br>76° east of south | 1.10 foot / 100 feet<br>1.60 foot / 100 feet |
| **07/26/05** | **188.37** | **56° west of north**<br>**78° west of north** | **0.08 foot / 100 feet**<br>**0.26 foot / 100 feet** |

## Results of Groundwater Sampling and Laboratory Analysis

The table shown on the following page summarizes the laboratory analytical results of groundwater samples collected during the July 26, 2005 monitoring event. Documentation of the well purging and sampling activities is contained in the Field Data Sheets of the Appendix.

**July 26, 2005 Groundwater Sampling Results**

| Well ID | Sample ID | TPH-G (ug/L) | BTEX (ug/L) | MTBE (ug/L) | VOC (ug/L) |
|---|---|---|---|---|---|
| MW1 | 7335-MW1 | 82000 | 12000/4500/3300/14000 | ND | 12000 Benzene / 4900 Toluene<br>3400 Ethylbenzene/ 16000 Xylenes |
| MW2 | 7335-MW2 | 41000 | 5600/550/2600/4600 | ND | 5000 Benzene / 560 Toluene<br>2300 Ethylbenzene / 4300 Xylenes |
| MW3 | 7335-MW3 | 9800 | 200/23/220/360 | 21 | 44 Benzene / 6.8 Toluene<br>310 Xylenes<br>120 ug/ L 1,3,5-Trimethylbenzene<br>60 ug/L Napthalene |
| PW1 | 7335-PW-1 | 1300 | 22/ND/48/110 | ND | 24 Benzene / 1.8 Toluene<br>150 Xylenes / 7.3 Isopropylbenzene<br>37 ug/ L 1,3,5-Trimethylbenzene<br>17 n-Propylbenzene / 43 Napthalene<br>48 Tetrachloroethene<br>1.5 Trichlorofluoromethane<br>7 cis-1,2-Dichloroethene |

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)
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
** - Does not match typical diesel pattern

As requested by the ACHCSA in their letter dated June 3, 2004, 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 EPA Methods 8015M/8021B, and VOCs by EPA Method 8260. Monitoring of DO and ORP should be continued to further evaluate the biodegradation potential in the shallow groundwater beneath the site. Third Quarter 2005 monitoring activities were conducted at the site on July 26, 2005.

## GeoTracker AB2886 EDF Upload

In general accordance with State Assembly Bill 2886, GGTR uploaded the fluid-level monitoring data associated with the July 26, 2004 event in electronic deliverable format to the State Water Resources Control Board's GeoTracker Database System. The GeoTracker Upload Confirmation Number is **7508621037**. An AB2886 Electronic Delivery

confirmation report copy (GEO_Well) corresponding to submittal title Fluid-Level Monitoring Data (MW1-MW3, PW1) is included in the Appendix.

GGTR uploaded all groundwater sample analytical results associated with the July 26, 2005 event in electronic deliverable format to the State GeoTracker Database System. A copy of the Upload Confirmation Number **3351294159** corresponding to Lab Number/Submittal Title 44573: 7/26/2005 GW Analytical Data (MW1-MW3, PW1) is included in the Appendix.

## Waste Management

The well purge and equipment wash and rinse water generated during the July 2005 monitoring event (@ 30 gallons) was transferred directly to a D.O.T.-approved, 55-gallon drum, appropriately labeled and stored onsite in a secure area, to be used for future groundwater monitoring events.

## 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. 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. 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

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 April 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.*

Based on review of GGTR's June 2003 report, the ACHCSA, in their letter dated September 8, 2003 requested a work plan addressing additional source and site characterization of contaminants in soil and groundwater at the subject property. GGTR submitted their Work Plan for Additional Site Characterization on December 29, 2003, which was conditionally approved by the ACHCSA in their most recent letter dated June 3, 2004. On September 30, 2004, GGTR submitted their *Additional Site Characterization Work Plan Addendum* for review. Between October 15, 2003 and October 2004, GGTR conducted quarterly groundwater monitoring and sampling activities at the site and submitted their associated Groundwater Monitoring Reports to the ACHCSA.

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 |

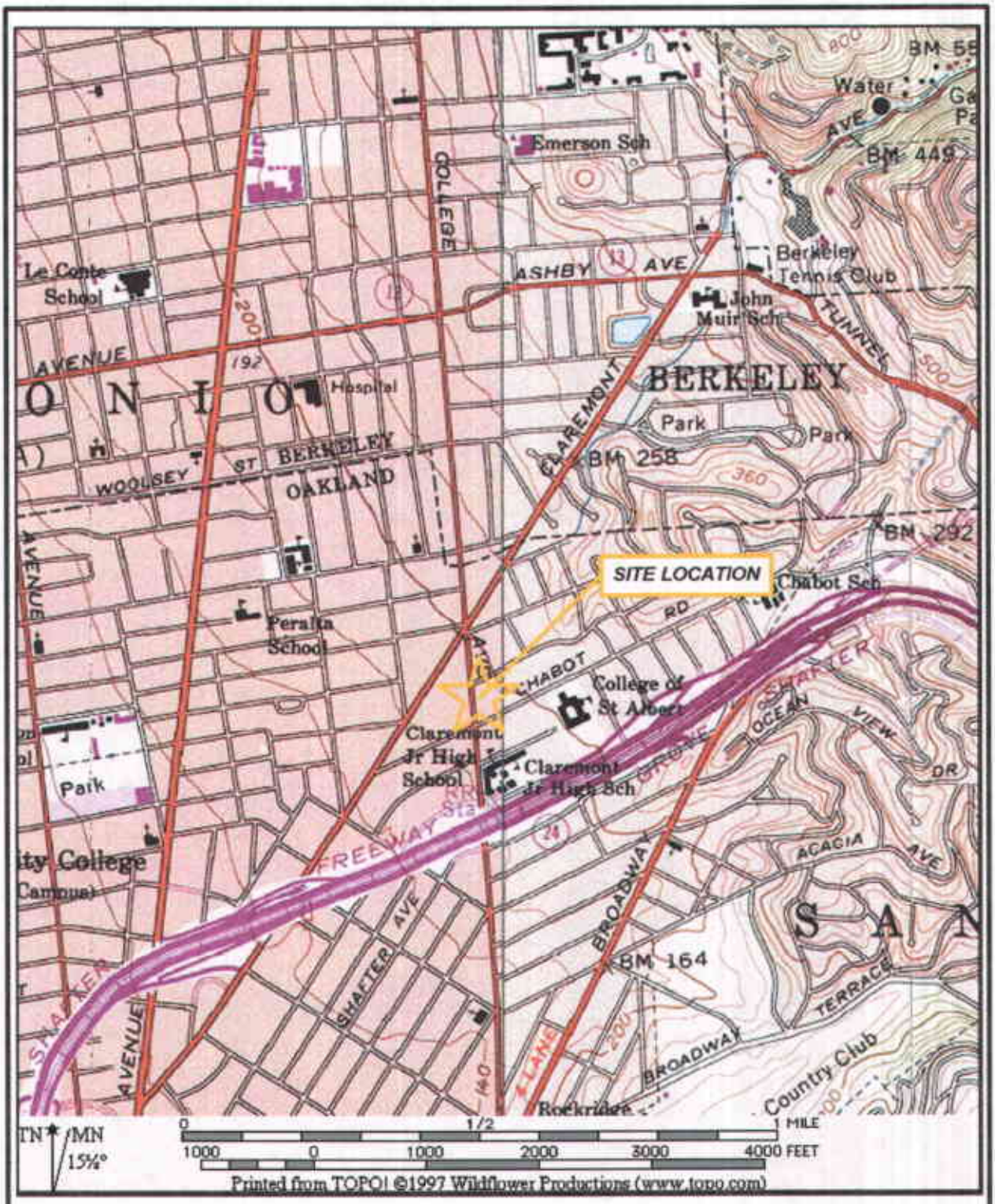
| | |
|---|---|
| 09/08/03 | ACHCSA submits Report Review Letter |
| 10/15/03 | GGTR conducts 3rd Quarter 2003 Monitoring & Sampling (MW1-MW3) |
| 10/31/03 | GGTR submits October 15, 2003 Groundwater Monitoring Report to the ACHCSA |
| 12/29/03 | GGTR submits Work Plan for Additional Site Characterization to the ACHCSA |
| 02/02/04 | GGTR conducts 1st Quarter 2004 Monitoring & Sampling (MW1-MW3) |
| 03/29/04 | GGTR submits February 2, 2004 Groundwater Monitoring Report to the ACHCSA |
| 04/23/04 | GGTR conducts 2nd Quarter 2004 Monitoring & Sampling (MW1-MW3) |
| 08/19/04 | GGTR submits April 23, 2004 Groundwater Monitoring Report to the ACHCSA |
| 07/19/04 | GGTR conducts 3rd Quarter 2004 Monitoring and Sampling (MW1-MW3) |
| 09/30/04 | GGTR submits Additional Site Characterization Work Plan Addendum to the ACHCSA |
| 10/22/04 | GGTR conducts 4th Quarter 2004 Monitoring and Sampling (MW1-MW3) |
| 11/11/04 | GGTR submits July 19, 2004 Groundwater Monitoring Report to the ACHCSA |
| 01/20/05 | GGTR submits October 22, 2004 Groundwater Monitoring Report to the ACHCSA |
| 01/21/05 | GGTR conducts 1st Quarter 2005 Groundwater Monitoring and Sampling (MW1-MW3) |
| 03/17/05 | GGTR submits July 26 2005 Groundwater Monitoring Report to the ACHCSA |
| 3/26/05 | GGTR submits Additional Site Characterization Work Plan Addendum to the ACHCSA |
| 04/05 | GGTR conducts Additional Site Characterization Activities |
| 04/14/05 | GGTR conducts 2nd Quarter 2005 Groundwater Monitoring and Sampling (MW1-MW3, and PW1)) |
| 07/24/05 | GGTR submits July 26 2005 Groundwater Monitoring Report to the ACHCSA |
| **07/26/05** | **GGTR conducts 3rd Quarter 2005 Groundwater Monitoring and Sampling (MW1-MW3, and PW1))** |
| **10/31/05** | **GGTR submits July 26 2005 Groundwater Monitoring Report to the ACHCSA** |

## Report Distribution

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

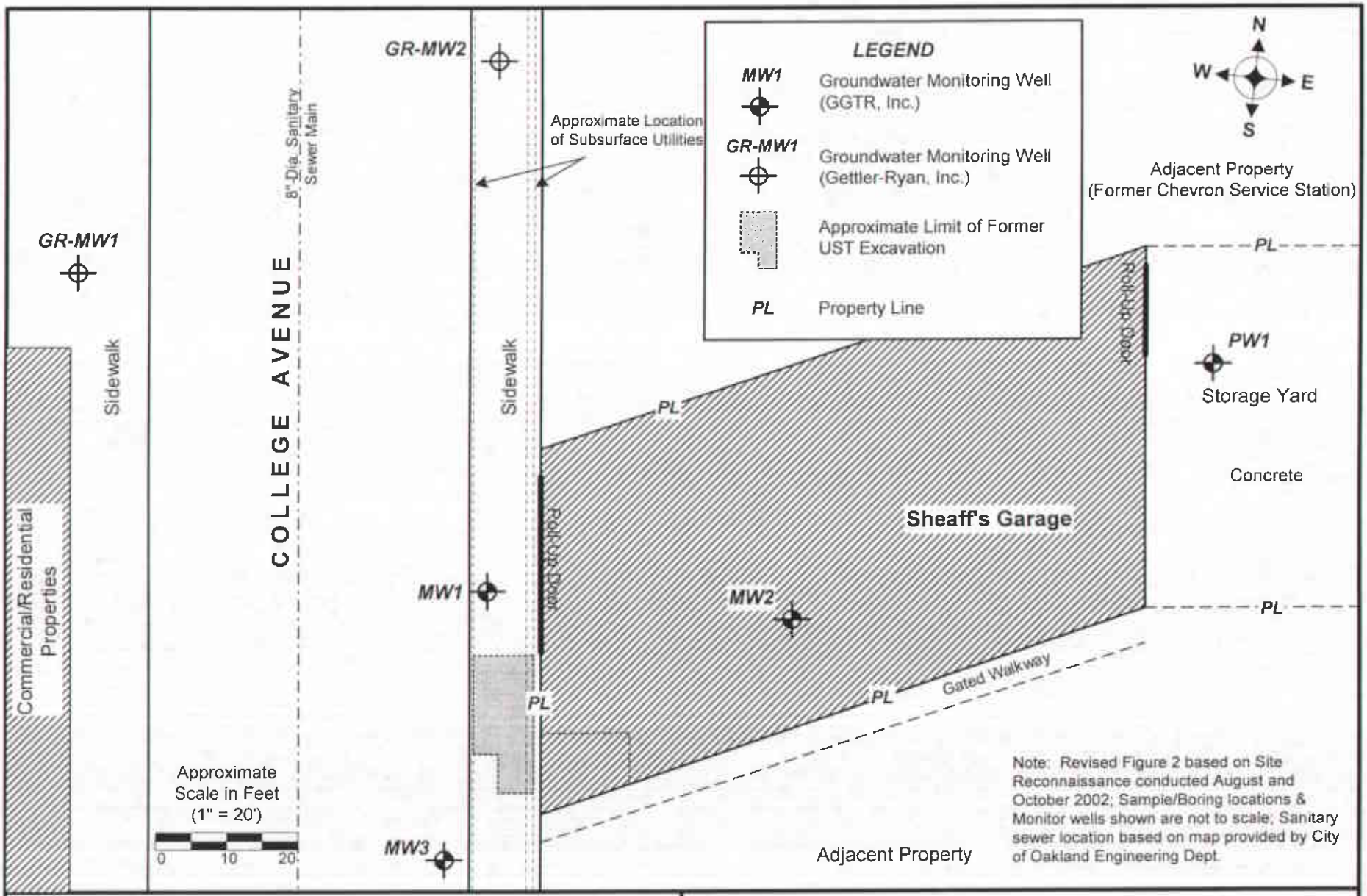
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
*Attention: Mr. Don Hwang* *(1 Copy; Unbound)*
*(1Electronic Copy via GEOTRACKER)*

Mr. Brian Sheaff
William G. Sheaff Trust
1945 Parkside Drive
Concord, CA 94519 *(2 Copies; Bound)*




| | |
|---|---|
| **GOLDEN GATE TANK REMOVAL, INC.**<br>255 Shipley Street<br>San Francisco, California 94107<br>Ph (415) 512-1555 Fx (415) 512-0964 | **SITE LOCATION MAP**<br>Sheaff's Garage<br>5930 College Avenue<br>Oakland, California |

| | | | |
|---|---|---|---|
| *GGTR Project No. 7335* | *Fn: 7335.sc.wp.F1* | *Revision By: baw/12.03* | ***Figure 1*** |




**GOLDEN GATE TANK REMOVAL**
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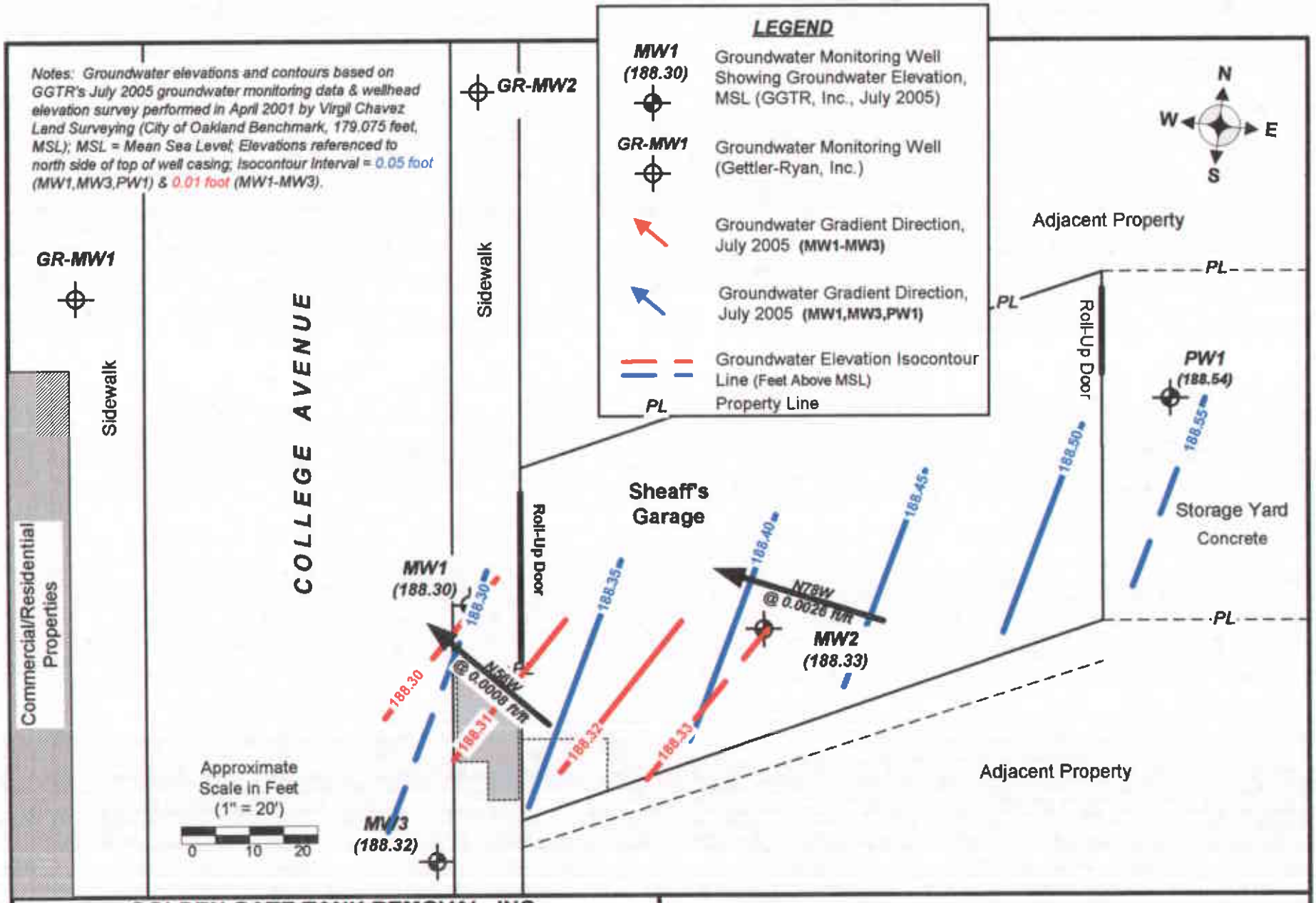
Phone (415) 512-1555 Fax (415) 512-1555

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

| GGTR Project No. 7335 | Fn: 7335.GWM.F2.10.03 | Revision By: baw/10.03 | FIGURE 2 |
|---|---|---|---|

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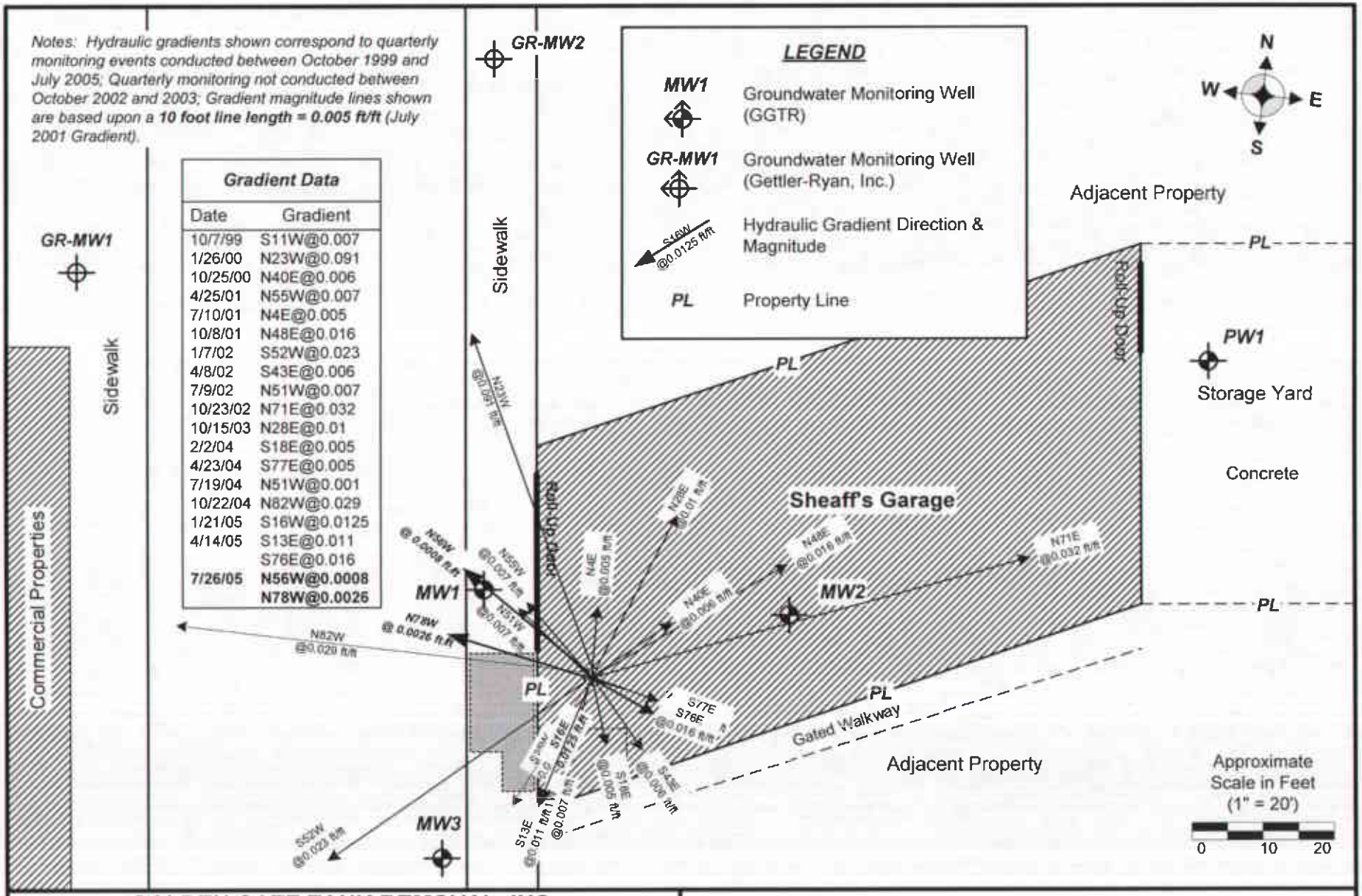
**GROUNDWATER ELEVATION POTENTIOMETRIC MAP**
*Sheaff's Garage*
*5930 College Avenue, Oakland, California*

| GGTR Project No. 7335 | Fn: 7335.GWM.F3. | Revision By: gw/07.05 | FIGURE 3 |
|---|---|---|---|




**GOLDEN GATE TANK REMOVAL, INC.**
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**ROSE DIAGRAM: HISTORICAL HYDRAULIC GRADIENT**
*Sheaff's Garage*
*5930 College Avenue, Oakland, California*

| GGTR Project No. 7335 | Fn: 7335.GWM.F4.04.05 | Revision By:gw/07.05 | **FIGURE 4** |
|---|---|---|---|

# 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 [1] | 4.81 | 45.19 | slight sheen | 160,000 | ND | -- | 1,900 | 28,000 / 21,000 / 3,800 / 21,000 |
| | 09/10/98 | 50.00 [1] | 7.50 | 42.50 | odor | 290,000 | ND | -- | 440 | <50 / 25,000 / 7,100 / 32,000 |
| | 10/07/99 | 50.00 [1] | 10.04 | 39.96 | odor | 85,000 | ND | -- | 1,100 | 20,000 / 13,000 / 3,800 / 17,000 |
| | 01/26/00 | 50.00 [1] | 8.26 | 41.74 | slight sheen | 130,000 | -- | -- | 470 | 25,000 / 18,000 / 4,500 / 22,000 |
| | 10/25/00 | 50.00 [1] | 10.10 | 39.90 | odor | 130,000 | -- | ND | 1,300 | 23,000 / 12,000 / 3,900 / 18,000 |
| | 02/02/01 | 50.00 [1] | 9.61 | 40.39 | odor | 128,000 | -- | -- | 780 | 19,000 / 11,000 / 3,800 / 18,000 |
| | 04/25/01 | 195.90 | 7.39 | 188.51 | odor | 120,000 | -- | -- | 900 | 21,000 / 13,000 / 390 / 18,000 |
| | 07/10/01 | 195.90 | 9.72 | 186.18 | odor | 79,000 | -- | -- | 660 | 15,000 / 7,800 / 3000 / 15,000 |
| | 10/08/01 | 195.90 | 10.88 | 185.02 | sheen/odor | 112,000 | -- | -- | 374 | 25,300 / 11,800 / 4,280 / 20,600 |
| | 01/07/02 | 195.90 | 4.34 | 191.56 | odor | 96,100 | -- | -- | 596 [3] | 21,100 / 13,500 / 4,160 / 21,900 |
| | 04/08/02 | 195.90 | 6.84 | 189.06 | slight odor | 111,000 | -- | 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 | -- | 41,482 [5] | 1,010 (1,080[3]) | 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 |
| | 02/02/04 | 195.90 | 7.35 | 188.55 | none | 108,000 | -- | 50,118 [12] | 216 (194[3]) | 14,200 / 7,420 / 3,450 / 19,800 |
| | 04/23/04 | 195.90 | 6.83 | 189.07 | slight odor | 49,200 | -- | 28,750 [15] | 85 (114[3]) | 7,910 / 1,480 / 1,810 / 10,100 |
| | 07/19/04 | 195.90 | 8.95 | 186.95 | odor | 63,900 | -- | 32,739[18] | 373 (303[3]) | 7,260 /2,270 / 2,510 / 10,100 |
| | 10/22/04 | 195.90 | 10.15 | 185.75 | None | 80,700 | -- | 34,550[21] | 493 (296[3]) | 13,900 / 1,670 / 3,550 / 15,200 |
| | 01/21/05 | 195.90 | 5.45 | 190.45 | odor | 278,000 | -- | 46,142[24] | 271 (174 [3]) | 14,700 / 25,300 / 10,800 / 73,500 |
| | 04/14/05 | 195.90 | 5.3 | 190.60 | Odor and sheen | 116,000 | -- | 63,650[27] | 366 (410 [3]) | 15,100 / 7,080 / 4,220 / 20,700 |
| | **07/26/05** | **195.90** | **7.6** | **188.30** | **Odor** | **82,000** | **--** | **36,300[31]** | **ND** | **12000/4500/3300/14000** |
| Laboratory Reporting Limit | | | | | | 50 | 5,000 | ≤50 | 2.0 | 0.5 / 0.5 / 0.5 / 1.0 |
| CRWQCB MSWQO (MCL) | | | | | | NC | NC | Varies | 5 [11] | 1 / 150 / 700 / 1,750 |
| CRWQCB February 2005 ESL | | | | | | 100/100 | 100/640 | Varies | 5.0/1,800 | 1.0 (46) / 40 (130) / 30 (290) / 20(100) |

**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 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW2 | 10/07/99 | 51.42 [1] | 11.49 | 39.93 | slight/odor | 18,000 | ND | -- | 490 | 3,000 / 1,700 / 1,000 / 3,900 |
| | 01/26/00 | 51.42 [1] | 7.85 | 43.57 | none | 42,000 | -- | -- | 560 | 9,300 / 2,200 / 2,300 / 7,700 |
| | 10/25/00 | 51.42 [1] | 11.57 | 39.85 | slight/odor | 31,000 | -- | ND | 500 | 5,500 / 370 / 1,700 / 2,600 |
| | 02/02/01 | 51.42 [1] | 10.77 | 40.65 | odor | 36,000 | -- | -- | 400 | 4,300 / 530 / 1,800 / 4,500 |
| | 04/25/01 | 197.28 | 8.52 | 188.76 | odor | 56,000 | -- | -- | 460 | 6,700 / 1700 / 2,600 / 8,200 |
| | 07/10/01 | 197.28 | 11.05 | 186.23 | odor | 39,000 | -- | -- | 180 | 6,200 / 730 / 2,300 / 6,100 |
| | 10/08/01 | 197.28 | 12.79 | 184.49 | sheen/odor | 40,700 | -- | -- | 6,460 | 6,310 / 399 / 2,100 / 5,320 |
| | 01/07/02 | 197.28 | 4.92 | 192.36 | odor | 59,600 | -- | -- | 366 [3] | 10,300 / 3,250 / 4,180 / 14,400 |
| | 04/08/02 | 197.28 | 8.40 | 188.88 | slight odor | 66,700 | -- | -- | 583 [3] | 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[3]) | 5,340 / 890 / 2,110 / 6,920 |
| | 10/23/02 | 197.28 | 13.85 | 183.43 | none | 13,300 | -- | 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 (322[3]) | 2,660 / 51 / 1,180 / 1,220 |
| | 02/02/04 | 197.28 | 8.80 | 188.48 | none | 21,700 | -- | 8,020 [13] | 168 (200[3]) | 2,130 / 51 / 1,030 / 2,060 |
| | 04/23/04 | 197.28 | 8.40 | 188.88 | Slight odor | 30,400 | -- | 13,921 [16] | 112 (203[3]) | 3,570 / 322 / 1,620 / 4,140 |
| | 07/19/04 | 197.28 | 10.30 | 186.98 | odor | 28,300 | -- | 10,284 [19] | 283 (373[3]) | 2,540 / 239 /1,320 / 2,300 |
| | 10/22/04 | 197.28 | 10.25 | 187.03 | Moderate odor | 13,500 | -- | 4,548 [22] | 273 (229[3]) | 1,790 / 54 / 892 / 915 |
| | 1/21/05 | 197.28 | 6.65 | 190.63 | Moderate odor | 27,8000 | -- | 17746 [25] | 161 (163[3]) | 5980 / 1030 / 2890 / 9070 |
| | 4/14/05 | 197.28 | 8.7 | 188.58 | none | 46100 | -- | 24398 [28] | 155 (150[3]) | 5,170 / 787 / 2,530 / 6,010 |
| | **7/26/05** | **197.28** | **8.95** | **188.33** | **Moderate odor** | **41,000** | **--** | **12,160 [32]** | ND (ND[3]) | **5600/550/2600/4600** |
| 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 [11] | 1 / 150 / 700 / 1,750 |
| CRWQCB February 2005 ESL | | | | | | 100/100 | 100/640 | Varies | 5.0/1,800 | 1.0 (46) / 40 (130) / 30 (290) / 20(100) |

**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 [1] | 9.67 | 39.72 | none | 6,600 | ND | -- | 390 | 310 / 110 / 430 / 1,000 |
| | 01/26/00 | 49.39 [1] | 5.40 | 43.99 | none | 3,300 | -- | -- | 40 | 110 / 8 / 100 / 32 |
| | 10/25/00 | 49.39 [1] | 9.24 | 40.15 | slight odor | 4,500 | -- | ND | ND | 100 / 2 / 120 / 130 |
| | 02/02/01 | 49.39 [1] | 8.73 | 40.66 | slight odor | 2,900 | -- | -- | 35 | 35 / 3 / 160 / 298 |
| | 04/25/01 | 195.22 | 6.61 | 188.61 | slight odor | 8,400 | -- | -- | 56 | 260 / 33 / 290 / 510 |
| | 07/10/01 | 195.22 | 8.85 | 186.37 | slight odor | 12,000 | -- | -- | 35 | 39 / 10 / 690 / 1600 |
| | 10/08/01 | 195.22 | 9.75 | 185.47 | sheen/odor | 4,913 | -- | -- | 52 | 108 / 4 / 99 / 133 |
| | 01/07/02 | 195.22 | 4.25 | 190.97 | sheen/odor | 7,260 | -- | -- | 81.7 [3] | 723 / 138 / 492 / 887 |
| | 04/08/02 | 195.22 | 6.33 | 188.89 | odor | 11,700 | -- | -- | 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 |
| | 02/02/04 | 195.22 | 6.85 | 188.37 | Sheen/odor | 5,140 | -- | 769.5 [14] | ND (ND [3]) | 126 / 8.7 / 134 / 238 |
| | 04/23/04 | 195.22 | 6.17 | 189.05 | none | 7,210 | -- | 2,807.9 [17] | ND (ND [3]) | 227 / 39.5 / 448 / 879 |
| | 07/19/04 | 195.22 | 8.25 | 186.97 | Slight odor | 9,860 | -- | 568.2 [20] | ND (ND [3]) | 20.4 / 3.2 / 30.6 / 117 |
| | 10/22/04 | 195.22 | 9.25 | 185.97 | None | 7,420 | -- | 1,901 [23] | 96 (21 [3]) | 152 / 12.8 / 267 / 480 |
| | 1/21/05 | 195.22 | 5.22 | 190.00 | Slight odor | 2,420 | -- | 809.5 [26] | ND (ND [3]) | 111 / 11.4 / 139 / 265 |
| | 4/14/05 | 195.22 | 6.64 | 188.58 | Odor / sheen | 5130 | -- | 2107 [29] | 54 (41.4 [3]) | 357 / 19.4 / 287 / 510 |
| | **7/26/05** | **195.22** | **6.90** | **188.32** | **none** | **9,800** | **--** | **811.8 [33]** | **ND (21 [3])** | **200/23/220/360** |
| TB | 02/02/04 | NA | | | | -- | -- | -- | -- | ND / ND / ND / ND |
| | 04/23/04 | NA | | | | -- | -- | -- | -- | ND / ND / ND / ND |
| | 07/19/04 | NA | | | | -- | -- | -- | -- | ND / ND / ND / ND |
| | 10/22/04 | 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 [11] | 1 / 150 / 700 / 1,750 |
| CRWQCB February 2005 ESL | | | | | | 100/100 | 100/640 | Varies | 5.0/1,800 | 1.0 (46) / 40 (130) / 30 (290) / 20(100) |

**TABLE NOTES ON FOLLOWING PAGE**

# 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| PW1 | 4/14/05 | 197.17 | 6.4 | 190.77 | none | 3360 | -- | 968 [30] | ND (ND [3]) | 62.8 / 6.7 / 79.5/ 317 |
| | **7/26/05** | **197.17** | **8.63** | **188.54** | **none** | **1,300** | **--** | **498.6 [34]** | **ND (ND [3])** | **22/ND/48/110** |
| TB | 02/02/04 | NA | | | | -- | -- | -- | -- | ND / ND / ND / ND |
| | 04/23/04 | NA | | | | -- | -- | -- | -- | ND / ND / ND / ND |
| | 07/19/04 | NA | | | | -- | -- | -- | -- | ND / ND / ND / ND |
| | 10/22/04 | 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 [11] | 1 / 150 / 700 / 1,750 |
| CRWQCB February 2005 ESL | | | | | | 100/100 | 100/640 | Varies | 5.0/1,800 | 1.0 (46) / 40 (130) / 30 (290) / 20(100) |

**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 (7335-TB)
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 NOTES CONTINUED ON FOLLOWING PAGE**

# TABLE 1 (Cont'd)
## Historical Results of Groundwater Sample Analysis & Fluid-Level Data
## 5930 College Avenue, Oakland, CA

[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)
[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)
[10] - 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
[12] - 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)
[13] - 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)
[14] - 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)
[15] - VOC concentrations reported as 1,210 ug/l methylene chloride, 114 ug/l MTBE, 10,300 ug/l benzene, 1,960 ug/l toluene, 2,220 ug/l ethylbenzene, 10,230 ug/l total xylenes, 180 ug/l n-propylbenzene, 417 ug/l 1,3,5-trimethylbenzene, 1,560 ug/l 1,2,4-trimethylbenzene, 559 ug/l naphthalene, and ND<50 ug/L 1,2-dibromoethane (EDB) & ND<100 ug/L 1,2-dichloroethane (EDC
[16] - VOC concentrations reported as 203 ug/l MTBE, 4,570 ug/l benzene, 511 ug/l toluene, 1,760 ug/l ethylbenzene, 4,055 ug/l total xylenes, 215 ug/l isopropylbenzene, 469 ug/l 1,3,5-trimethylbenzene, 1,570 ug/l 1,2,4-trimethylbenzene, 568 ug/l naphthalene, and ND<5 ug/L 1,2-dibromoethane (EDB) & ND<10 ug/L 1,2-dichloroethane (EDC)

**TABLE NOTES CONTINUED ON FOLLOWING PAGE**

# TABLE 1 (Cont'd)
## Historical Results of Groundwater Sample Analysis & Fluid-Level Data
## 5930 College Avenue, Oakland, CA

[17] - VOC concentrations reported as 341 ug/l benzene, 42.9 ug/l toluene, 547 ug/l ethylbenzene, 1,185 ug/l total xylenes, 29 ug/l isopropylbenzene, 82 ug/l n-propylbenzene, 60 ug/l 1,3,5-trimethylbenzene, 337 ug/l 1,2,4-trimethylbenzene, 24 ug/l n-butylbenzene, 160 ug/l naphthalene, and ND<0.5 ug/L 1,2-dibromoethane (EDB) & ND<1 ug/L 1,2-dichloroethane (EDC)

[18] - VOC concentrations reported as 303 ug/l MTBE, 11200 ug/l benzene, 2440 ug/l toluene, 2730 ug/l ethylbenzene 12540 ug/l total xylenes, 239 ug/l n-propylbenzene, 89 ug/l isopropylbenzene, 507 ug/l 1,3,5-trimethylbenzene, 1890 ug/l 1,2,4-trimethylbenzene, and 801 ug/l naphthalene.

[19] - VOC concentrations reported as 373 ug/l MTBE, 3670 ug/l benzene, 207 ug/l toluene, 1450 ug/l ethylbenzene, 2403 ug/l total xylenes, 73 ug/l isopropylbenzene, 316 ug/l 1,3,5-trimethylbenzene, 1070 ug/l 1,2,4-trimethylbenzene, 475 ug/l naphthalene, 173 ug/l n-propylbenzene, 475 ug/l napthalene, and 72 ug/l n-butylbenzene.

[20] - VOC concentrations reported as 39.3 ug/l benzene, 3.6 ug/l toluene, 31 ug/l ethylbenzene, 59.3ug/l total xylenes, 27 ug/l isopropylbenzene, 2 ug/l 1,1,2,2-tetrachloroethane, 105 ug/l n-propylbenzene, 48 ug/l 1,3,5-trimethylbenzene, 204 ug/l 1,2,4-trimethylbenzene, 34 ug/l n-butylbenzene, 16 ug/l naphthalene, and ND<0.5 ug/L 1,2-dibromoethane (EDB) & ND<1 ug/L 1,2-dichloroethane (EDC)

[21] - VOC concentrations reported as 296 ug/l MTBE, 15600 ug/l benzene, 1440 ug/l toluene, 3020 ug/l ethylbenzene, 12020 ug/l total xylenes, 264 ug/l n-propylbenzene, 520 ug/l 1,3,5-trimethylbenzene, 1990 ug/l 1,2,4-trimethylbenzene, and 700 ug/l naphthalene.

[22] - VOC concentrations reported as 229 ug/l MTBE, 2010 ug/l benzene, 54 ug/l toluene, 799 ug/l ethylbenzene, 667 ug/l total xylenes, 49 ug/l isopropylbenzene, 80 ug/l 1,3,5-trimethylbenzene, 257 ug/l 1,2,4-trimethylbenzene, 227 ug/l naphthalene, 132 ug/l n-propylbenzene, and 44 ug/l n-butylbenzene.

[23] - VOC concentrations reported as 21 ug/l MTBE, 128 ug/l benzene, 12 ug/l toluene, 225 ug/l ethylbenzene, 394 ug/l total xylenes, 55 ug/l isopropylbenzene, 182 ug/l n-propylbenzene, 192 ug/l 1,3,5-trimethylbenzene, 574 ug/l 1,2,4-trimethylbenzene, 42 ug/l n-butylbenzene, and 76 ug/l naphthalene

[24] VOC concentrations reported as 174 ug/l MTBE, 16600 ug/l benzene, 7130 ug/l toluene, 3580 ug/l ethylbenzene17200 ug/l total xylenes, 271 ug/l n-propylbenzene, 525 ug/l 1,3,5-trimethylbenzene, 2080 ug/l 1,2,4-trimethylbenzene, and 662 ug/l naphthalene

[25] VOC concentrations reported as 163 ug/l MTBE, 5710 ug/l benzene, 936 ug/l toluene, 2380 ug/l ethylbenzene, 5750 ug/l total xylenes, 239 ug/l n-propylbenzene, 371 ug/l 1,3,5-trimethylbenzene, 1500 ug/l 1,2,4-trimethylbenzene, and 697 ug/l naphthalene

[26] VOC concentrations reported as 9.8 ug/l toluene, 150 ug/l ethylbenzene, 241.7 ug/l total xylenes, 25 ug/l isopropylbenzene, 88 ug/l n-propylbenzene, 23 ug/l 1,3,5-trimethylbenzene, 96 ug/l 1,2,4-trimethylbenzene, 15 ug/l n-butylbenzene, and 43 ug/l naphthalene

[27] VOC concentrations reported as 410ug/l MTBE, 19,800 ug/l benzene, 9420 ug/l toluene, 4970 ug/l ethylbenzene 26670 ug/l total xylenes, 141 ug/l isopropylbenzene, 437 ug/l n-propylbenzene, 882ug/l 1,3,5-trimethylbenzene, 3450 ug/l 1,2,4-trimethylbenzene, and 1220 ug/l naphthalene

[28] VOC concentrations reported as 150 ug/l MTBE, 8190 ug/l benzene, 9420 ug/l toluene, 3210 ug/l ethylbenzene, 6870 ug/l total xylenes, 293 ug/l n-propylbenzene, 109 ug/l isopropylbenzene, 445 ug/l 1,3,5-trimethylbenzene, 2390 ug/l 1,2,4-trimethylbenzene, and 1490 ug/l naphthalene

**TABLE NOTES CONTINUED ON FOLLOWING PAGE**

# TABLE 1 (Cont'd)
## Historical Results of Groundwater Sample Analysis & Fluid-Level Data
## 5930 College Avenue, Oakland, CA

[29] VOC concentrations reported as 27.4 ug/l toluene, 351 ug/l ethylbenzene, 41.4 ug/l MTBE, 388 ug/l benzene, 570.2 ug/l total xylenes, 45 ug/l isopropylbenzene, 148 ug/l n-propylbenzene, 85 ug/l 1,3,5-trimethylbenzene, 302 ug/l 1,2,4-trimethylbenzene, 28 ug/l n-butylbenzene, and 121 ug/l naphthalene

[30] VOC concentrations reported as 12 ug/l cis-1,2-Dichloroethene, 55.9 ug/l Benzene, 3.3 ug/l Trichloroethene, 9.2 ug/l Toluene, 84.9 ug/l Tetrachloroethene, 88 ug/l Ethylbenzene, 319.7 ug/l total Xylenes, 11 ug/l Isopropylbenzene,27 ug/l n-propylbenzene, 110 ug/l 1,3,5- Trimethylbenzene, 257 ug/l 1,2,4-Trimethylbenzene, 22 ug/l n-Butylbenzene, 56 ug/l Napthalene

**[31] VOC concentrations reported as 12000 ug/l benzene, 4900 ug/l toluene, 3400 ug/l ethylbenzene 16000 ug/l total xylenes,**

**[32] VOC concentrations reported as 5000 ug/l benzene, 560 ug/l toluene,2300 ug/l ethylbenzene, 4300 ug/l total xylenes,**

**[33] VOC concentrations reported as 44 ug/l benzene 6.9 ug/l toluene, 310 ug/l total xylenes, 120 ug/l 1,3,5-Trimethylbenzene , 60 ug/l Napthalene, 250 ug/l 1,2,4- Trimethylbenzene, 21 ug/l MTBE,**

**[34] VOC concentrations reported as 24 ug/l Benzene, 1.8 ug/l Toluene, 150 ug/l Total Xylenes, 7 ug/l cis-1,2-Dichloroethene, 48 ug/l Tetrachloroethene, 7.3 ug/l Isopropylbenzene, 17 ug/l n-propylbenzene, 37 ug/l 1,3,5- Trimethylbenzene, 1.5 ug/l Trichloroflouromethane 43 ug/l Napthalene, 62 ug/l Ethyl Benzene, 100 ug/l 1,2,4- Trimethylbenzene**

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 FORM**
**FLUID-LEVEL MONITORING DATA SHEET**
**WELL PURGING/SAMPLING DATA SHEETS**
**GEOTRACKER AB2886 UPLOAD CONFIRMATION FORMS**

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Brent Wheeler
Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107

**Certificate ID: 44573 - 8/3/2005 5:42:30 PM**

**Order Number: 44573**

**Date Received: 7/27/2005 4:30:14 PM**
**P.O. Number: 7335**

**Project Number: 7335**

## Certificate of Analysis - Final Report

On July 27, 2005, samples were received under chain of custody for analysis.
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

| Matrix | Test | Comments |
|---|---|---|
| Liquid | Electronic Deliverables | |
| | EPA 8260B - GC/MS | |
| | MtBE | |
| | Volatile-GC | |

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

Laurie Glantz-Murphy
Laboratory Director

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-001 **Sample ID:** 7335-MW1 **Matrix:** Liquid **Sample Date:** 7/26/2005 1:00 PM

**EPA 8015 MOD. (Purgeable)** — **TPH as Gasoline**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | 82000 | | 200 | 12000 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 108 | 65 - 135 |

Analyzed by: mruan
Reviewed by: bdhabalia

**EPA 8020** — **BTEX**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 12000 | | 200 | 120 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Toluene | 4500 | | 200 | 120 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Ethyl Benzene | 3300 | | 200 | 120 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Xylenes, Total | 14000 | | 200 | 120 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Methyl-t-butyl Ether | ND | | 200 | 250 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 108 | 65 - 135 |

Analyzed by: mruan
Reviewed by: bdhabalia

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-001 **Sample ID:** 7335-MW1 **Matrix:** Liquid **Sample Date:** 7/26/2005 1:00 PM

| EPA 5030C EPA 8260B EPA 624 Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | EPA 8260B QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1,1-Trichloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1,2,2-Tetrachloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1,2-Trichloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1-Dichloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1-Dichloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1-Dichloropropene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,3-Trichlorobenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,3-Trichloropropane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,4-Trichlorobenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,4-Trimethylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dibromo-3-Chloropropane | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dibromoethane (EDB) | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dichlorobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dichloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dichloropropane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,3,5-Trimethylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,3-Dichlorobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,3-Dichloropropane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,4-Dichlorobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,4-Dioxane | ND | | 500 | 25000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2,2-Dichloropropane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Butanone (MEK) | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Chloroethyl-vinyl Ether | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Chlorotoluene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Hexanone | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 4-Chlorotoluene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 4-Methyl-2-Pentanone(MIBK) | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acetone | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acetonitrile | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acrolein | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acrylonitrile | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Benzene | 12000 | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Benzyl Chloride | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromochloromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromodichloromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromoform | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromomethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Carbon Disulfide | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Carbon Tetrachloride | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chlorobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chloroform | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chloromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-001 **Sample ID:** 7335-MW1 **Matrix:** Liquid **Sample Date:** 7/26/2005 1:00 PM

**EPA 5030C EPA 8260B EPA 624**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | EPA 8260B QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| cis-1,3-Dichloropropene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Cyclohexanone | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Dibromochloromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Dibromomethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Dichlorodifluoromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Diisopropyl Ether | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Ethyl Benzene | 3400 | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Freon 113 | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Hexachlorobutadiene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Iodomethane | ND | | 500 | 500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Isopropanol | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Isopropylbenzene | ND | | 500 | 500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Methyl-t-butyl Ether | ND | | 500 | 500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Methylene Chloride | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| n-Butylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| n-Propylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Naphthalene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| p-isopropyltoluene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Pentachloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| sec-Butylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Styrene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Amyl Methyl Ether | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Butanol (TBA) | ND | | 500 | 5000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Butyl Ethyl Ether | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Butylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Tetrachloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Tetrahydrofuran | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Toluene | 4900 | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| trans-1,2-Dichloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| trans-1,3-Dichloropropene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| trans-1,4-Dichloro-2-butene | ND | | 500 | 500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Trichloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Trichlorofluoromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Vinyl Acetate | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Vinyl Chloride | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Xylenes, Total | 16000 | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 96.1 | 70 - 125 |
| Dibromofluoromethane | 94.4 | 70 - 125 |
| Toluene-d8 | 94.5 | 70 - 125 |

Analyzed by: MTu
Reviewed by: bdhabalia

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-002 **Sample ID:** 7335-MW2 **Matrix:** Liquid **Sample Date:** 7/26/2005 1:15 PM

**EPA 8015 MOD. (Purgeable)** — **TPH as Gasoline**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | 41000 | | 200 | 10000 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 109 | 65 - 135 |

Analyzed by: mruan
Reviewed by: bdhabalia

**EPA 8020** — **BTEX**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 5600 | | 200 | 100 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Toluene | 550 | | 200 | 100 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Ethyl Benzene | 2600 | | 200 | 100 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Xylenes, Total | 4600 | | 200 | 100 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Methyl-t-butyl Ether | ND | | 200 | 200 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 108 | 65 - 135 |

Analyzed by: mruan
Reviewed by: bdhabalia

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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**Golden Gate Tank Removal**
**255 Shipley Street**
**San Francisco, CA 94107**
**Attn: Brent Wheeler**

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-002 **Sample ID:** 7335-MW2 **Matrix:** Liquid **Sample Date:** 7/26/2005 1:15 PM

| EPA 5030C EPA 8260B EPA 624 Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | EPA 8260B QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1,1-Trichloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1,2,2-Tetrachloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1,2-Trichloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1-Dichloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1-Dichloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1-Dichloropropene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,3-Trichlorobenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,3-Trichloropropane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,4-Trichlorobenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,4-Trimethylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dibromo-3-Chloropropane | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dibromoethane (EDB) | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dichlorobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dichloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dichloropropane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,3,5-Trimethylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,3-Dichlorobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,3-Dichloropropane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,4-Dichlorobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,4-Dioxane | ND | | 500 | 25000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2,2-Dichloropropane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Butanone (MEK) | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Chloroethyl-vinyl Ether | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Chlorotoluene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Hexanone | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 4-Chlorotoluene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 4-Methyl-2-Pentanone(MIBK) | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acetone | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acetonitrile | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acrolein | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acrylonitrile | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Benzene | 5000 | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Benzyl Chloride | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromochloromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromodichloromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromoform | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromomethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Carbon Disulfide | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Carbon Tetrachloride | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chlorobenzene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chloroform | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chloromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-002 **Sample ID:** 7335-MW2 **Matrix:** Liquid **Sample Date:** 7/26/2005 1:15 PM

**EPA 5030C EPA 8260B EPA 624** — **EPA 8260B**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| cis-1,3-Dichloropropene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Cyclohexanone | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Dibromochloromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Dibromomethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Dichlorodifluoromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Diisopropyl Ether | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Ethyl Benzene | 2300 | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Freon 113 | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Hexachlorobutadiene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Iodomethane | ND | | 500 | 500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Isopropanol | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Isopropylbenzene | ND | | 500 | 500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Methyl-t-butyl Ether | ND | | 500 | 500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Methylene Chloride | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| n-Butylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| n-Propylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Naphthalene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| p-Isopropyltoluene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Pentachloroethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| sec-Butylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Styrene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Amyl Methyl Ether | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Butanol (TBA) | ND | | 500 | 5000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Butyl Ethyl Ether | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Butylbenzene | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Tetrachloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Tetrahydrofuran | ND | | 500 | 10000 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Toluene | 560 | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| trans-1,2-Dichloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| trans-1,3-Dichloropropene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| trans-1,4-Dichloro-2-butene | ND | | 500 | 500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Trichloroethene | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Trichlorofluoromethane | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Vinyl Acetate | ND | | 500 | 2500 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Vinyl Chloride | ND | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Xylenes, Total | 4300 | | 500 | 250 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 95.0 | 70 - 125 |
| Dibromofluoromethane | 95.6 | 70 - 125 |
| Toluene-d8 | 96.9 | 70 - 125 |

Analyzed by: MTu
Reviewed by: bdhabalia

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-003 **Sample ID:** 7335-MW3 **Matrix:** Liquid **Sample Date:** 7/26/2005 12:50 PM

**EPA 8015 MOD. (Purgeable)** — **TPH as Gasoline**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | 9800 | | 20 | 1000 | µg/L | N/A | N/A | 7/29/2005 | WGC4050729 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 117 | 65 - 135 |

Analyzed by: mruan
Reviewed by: bdhabalia

**EPA 8020** — **BTEX**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 200 | | 20 | 10 | µg/L | N/A | N/A | 7/29/2005 | WGC4050729 |
| Toluene | 23 | | 20 | 10 | µg/L | N/A | N/A | 7/29/2005 | WGC4050729 |
| Ethyl Benzene | 220 | | 20 | 10 | µg/L | N/A | N/A | 7/29/2005 | WGC4050729 |
| Xylenes, Total | 360 | | 20 | 10 | µg/L | N/A | N/A | 7/29/2005 | WGC4050729 |
| Methyl-t-butyl Ether | ND | | 20 | 20 | µg/L | N/A | N/A | 7/29/2005 | WGC4050729 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 118 | 65 - 135 |

Analyzed by: mruan
Reviewed by: bdhabalia

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

# Entech Analytical Labs, Inc.

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Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-003 **Sample ID:** 7335-MW3 **Matrix:** Liquid **Sample Date:** 7/26/2005 12:50 PM

**EPA 5030C EPA 8260B EPA 624**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | EPA 8260B QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,1,1-Trichloroethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,1,2-Trichloroethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,1-Dichloroethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,1-Dichloroethene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,1-Dichloropropene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,2,3-Trichlorobenzene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,2,3-Trichloropropane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,2,4-Trichlorobenzene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,2,4-Trimethylbenzene | 250 | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,2-Dibromoethane (EDB) | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,2-Dichlorobenzene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,2-Dichloroethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,2-Dichloropropane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,3,5-Trimethylbenzene | 120 | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,3-Dichlorobenzene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,3-Dichloropropane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,4-Dichlorobenzene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 1,4-Dioxane | ND | | 10 | 500 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 2,2-Dichloropropane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 2-Butanone (MEK) | ND | | 10 | 200 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 2-Chloroethyl-vinyl Ether | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 2-Chlorotoluene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 2-Hexanone | ND | | 10 | 200 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 4-Chlorotoluene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| 4-Methyl-2-Pentanone(MIBK) | ND | | 10 | 200 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Acetone | ND | | 10 | 200 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Acetonitrile | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Acrolein | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Acrylonitrile | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Benzene | 44 | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Benzyl Chloride | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Bromobenzene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Bromochloromethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Bromodichloromethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Bromoform | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Bromomethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Carbon Disulfide | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Carbon Tetrachloride | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Chlorobenzene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Chloroethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Chloroform | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Chloromethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |

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ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-003 **Sample ID:** 7335-MW3 **Matrix:** Liquid **Sample Date:** 7/26/2005 12:50 PM

**EPA 5030C EPA 8260B EPA 624**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | EPA 8260B QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| cis-1,3-Dichloropropene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Cyclohexanone | ND | | 10 | 200 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Dibromochloromethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Dibromomethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Dichlorodifluoromethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Diisopropyl Ether | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Ethyl Benzene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Freon 113 | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Hexachlorobutadiene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Iodomethane | ND | | 10 | 10 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Isopropanol | ND | | 10 | 200 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Isopropylbenzene | ND | | 10 | 10 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Methyl-t-butyl Ether | 21 | | 10 | 10 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Methylene Chloride | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| n-Butylbenzene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| n-Propylbenzene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Naphthalene | 60 | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| p-Isopropyltoluene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Pentachloroethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| sec-Butylbenzene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Styrene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| tert-Amyl Methyl Ether | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| tert-Butanol (TBA) | ND | | 10 | 100 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| tert-Butyl Ethyl Ether | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| tert-Butylbenzene | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Tetrachloroethene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Tetrahydrofuran | ND | | 10 | 200 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Toluene | 6.8 | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| trans-1,2-Dichloroethene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| trans-1,3-Dichloropropene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| trans-1,4-Dichloro-2-butene | ND | | 10 | 10 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Trichloroethene | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Trichlorofluoromethane | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Vinyl Acetate | ND | | 10 | 50 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Vinyl Chloride | ND | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |
| Xylenes, Total | 310 | | 10 | 5.0 | µg/L | N/A | N/A | 8/2/2005 | WM1050802 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 102 | 70 - 125 |
| Dibromofluoromethane | 109 | 70 - 125 |
| Toluene-d8 | 96.7 | 70 - 125 |

Analyzed by: MTu
Reviewed by: bdhabalia

Detection Limit = Detection Limit for Reporting.
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Qual = Data Qualifier

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-004 **Sample ID:** 7335-PW-1 **Matrix:** Liquid **Sample Date:** 7/26/2005 1:20 PM

**EPA 8015 MOD. (Purgeable)** TPH as Gasoline

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | 1300 | | 5 | 250 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 120 | 65 - 135 |

Analyzed by: mruan
Reviewed by: bdhabalia

**EPA 8020** BTEX

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 22 | | 5 | 2.5 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Toluene | ND | | 5 | 2.5 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Ethyl Benzene | 48 | | 5 | 2.5 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Xylenes, Total | 110 | | 5 | 2.5 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |
| Methyl-t-butyl Ether | ND | | 5 | 5.0 | µg/L | N/A | N/A | 7/28/2005 | WGC4050728 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 120 | 65 - 135 |

Analyzed by: mruan
Reviewed by: bdhabalia

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

**Golden Gate Tank Removal**
**255 Shipley Street**
**San Francisco, CA 94107**
**Attn: Brent Wheeler**

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-004 **Sample ID:** 7335-PW-1 **Matrix:** Liquid **Sample Date:** 7/26/2005 1:20 PM

**EPA 5030C EPA 8260B EPA 624**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | EPA 8260B QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1,1-Trichloroethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1,2,2-Tetrachloroethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1,2-Trichloroethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1-Dichloroethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1-Dichloroethene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,1-Dichloropropene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,3-Trichlorobenzene | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,3-Trichloropropane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,4-Trichlorobenzene | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2,4-Trimethylbenzene | 100 | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dibromoethane (EDB) | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dichlorobenzene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dichloroethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,2-Dichloropropane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,3,5-Trimethylbenzene | 37 | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,3-Dichlorobenzene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,3-Dichloropropane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,4-Dichlorobenzene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 1,4-Dioxane | ND | | 2 | 100 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2,2-Dichloropropane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Butanone (MEK) | ND | | 2 | 40 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Chloroethyl-vinyl Ether | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Chlorotoluene | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 2-Hexanone | ND | | 2 | 40 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 4-Chlorotoluene | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| 4-Methyl-2-Pentanone(MIBK) | ND | | 2 | 40 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acetone | ND | | 2 | 40 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acetonitrile | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acrolein | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Acrylonitrile | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Benzene | 24 | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Benzyl Chloride | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromobenzene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromochloromethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromodichloromethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromoform | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Bromomethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Carbon Disulfide | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Carbon Tetrachloride | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chlorobenzene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chloroethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chloroform | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Chloromethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Golden Gate Tank Removal
255 Shipley Street
San Francisco, CA 94107
Attn: Brent Wheeler

Project ID: 7335
Date Received: 7/27/2005
P.O. Number: 7335
Sample Collected by: client

## Certificate of Analysis - Data Report

**Lab # :** 44573-004 **Sample ID:** 7335-PW-1 **Matrix:** Liquid **Sample Date:** 7/26/2005 1:20 PM

**EPA 5030C EPA 8260B EPA 624**

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | EPA 8260B QC Batch |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 7.0 | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| cis-1,3-Dichloropropene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Cyclohexanone | ND | | 2 | 40 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Dibromochloromethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Dibromomethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Dichlorodifluoromethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Diisopropyl Ether | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Ethyl Benzene | 62 | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Freon 113 | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Hexachlorobutadiene | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Iodomethane | ND | | 2 | 2.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Isopropanol | ND | | 2 | 40 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Isopropylbenzene | 7.3 | | 2 | 2.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Methyl-t-butyl Ether | ND | | 2 | 2.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Methylene Chloride | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| n-Butylbenzene | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| n-Propylbenzene | 17 | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Naphthalene | 43 | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| p-Isopropyltoluene | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Pentachloroethane | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| sec-Butylbenzene | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Styrene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Amyl Methyl Ether | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Butanol (TBA) | ND | | 2 | 20 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Butyl Ethyl Ether | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| tert-Butylbenzene | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Tetrachloroethene | 48 | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Tetrahydrofuran | ND | | 2 | 40 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Toluene | 1.8 | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| trans-1,2-Dichloroethene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| trans-1,3-Dichloropropene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| trans-1,4-Dichloro-2-butene | ND | | 2 | 2.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Trichloroethene | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Trichlorofluoromethane | 1.5 | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Vinyl Acetate | ND | | 2 | 10 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Vinyl Chloride | ND | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |
| Xylenes, Total | 150 | | 2 | 1.0 | µg/L | N/A | N/A | 8/1/2005 | WM1050801 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| 4-Bromofluorobenzene | 98.4 | 70 - 125 |
| Dibromofluoromethane | 95.8 | 70 - 125 |
| Toluene-d8 | 96.8 | 70 - 125 |

Analyzed by: MTu
Reviewed by: bdhabalia

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

## Method Blank - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline

**QC Batch ID: WGC4050728**

Validated by: bdhabalia - 08/01/05

**QC Batch Analysis Date: 7/28/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| TPH as Gasoline | ND | 1 | 50 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 92.5 | 65 - 135 |

## Method Blank - Liquid - EPA 8020 - BTEX

**QC Batch ID: WGC4050728**

Validated by: bdhabalia - 08/01/05

**QC Batch Analysis Date: 7/28/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| Benzene | ND | 1 | 0.50 | µg/L |
| Ethyl Benzene | ND | 1 | 0.50 | µg/L |
| Toluene | ND | 1 | 0.50 | µg/L |
| Xylenes, Total | ND | 1 | 0.50 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 95.3 | 65 - 135 |

## Method Blank - Liquid - EPA 8020 - MTBE by EPA 8020

**QC Batch ID: WGC4050728**

Validated by: bdhabalia - 08/01/05

**QC Batch Analysis Date: 7/28/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| Methyl-t-butyl Ether | ND | 1 | 1.0 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 95.3 | 65 - 135 |

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

## Method Blank - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline

**QC Batch ID: WGC4050729**

Validated by: bdhabalia - 08/01/05

**QC Batch Analysis Date: 7/29/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| TPH as Gasoline | ND | 1 | 50 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 90.1 | 65 - 135 |

## Method Blank - Liquid - EPA 8020 - BTEX

**QC Batch ID: WGC4050729**

Validated by: bdhabalia - 08/01/05

**QC Batch Analysis Date: 7/29/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| Benzene | ND | 1 | 0.50 | µg/L |
| Ethyl Benzene | ND | 1 | 0.50 | µg/L |
| Toluene | ND | 1 | 0.50 | µg/L |
| Xylenes, Total | ND | 1 | 0.50 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 96.7 | 65 - 135 |

## Method Blank - Liquid - EPA 8020 - MTBE by EPA 8020

**QC Batch ID: WGC4050729**

Validated by: bdhabalia - 08/01/05

**QC Batch Analysis Date: 7/29/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| Methyl-t-butyl Ether | ND | 1 | 1.0 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 96.7 | 65 - 135 |

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

**Method Blank - Liquid - EPA 8260B - EPA 8260B**

**QC Batch ID: WM1050801**

Validated by: MaiChiTu - 08/01/05

**QC Batch Analysis Date: 8/1/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1 | 0.50 | µg/L |
| 1,1,1-Trichloroethane | ND | 1 | 0.50 | µg/L |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 0.50 | µg/L |
| 1,1,2-Trichloroethane | ND | 1 | 0.50 | µg/L |
| 1,1-Dichloroethane | ND | 1 | 0.50 | µg/L |
| 1,1-Dichloroethene | ND | 1 | 0.50 | µg/L |
| 1,1-Dichloropropene | ND | 1 | 0.50 | µg/L |
| 1,2,3-Trichlorobenzene | ND | 1 | 5.0 | µg/L |
| 1,2,3-Trichloropropane | ND | 1 | 0.50 | µg/L |
| 1,2,4-Trichlorobenzene | ND | 1 | 5.0 | µg/L |
| 1,2,4-Trimethylbenzene | ND | 1 | 5.0 | µg/L |
| 1,2-Dibromo-3-Chloropropane | ND | 1 | 5.0 | µg/L |
| 1,2-Dibromoethane (EDB) | ND | 1 | 0.50 | µg/L |
| 1,2-Dichlorobenzene | ND | 1 | 0.50 | µg/L |
| 1,2-Dichloroethane | ND | 1 | 0.50 | µg/L |
| 1,2-Dichloropropane | ND | 1 | 0.50 | µg/L |
| 1,3,5-Trimethylbenzene | ND | 1 | 5.0 | µg/L |
| 1,3-Dichlorobenzene | ND | 1 | 0.50 | µg/L |
| 1,3-Dichloropropane | ND | 1 | 0.50 | µg/L |
| 1,4-Dichlorobenzene | ND | 1 | 0.50 | µg/L |
| 1,4-Dioxane | ND | 1 | 50 | µg/L |
| 2,2-Dichloropropane | ND | 1 | 0.50 | µg/L |
| 2-Butanone (MEK) | ND | 1 | 20 | µg/L |
| 2-Chloroethyl-vinyl Ether | ND | 1 | 5.0 | µg/L |
| 2-Chlorotoluene | ND | 1 | 5.0 | µg/L |
| 2-Hexanone | ND | 1 | 20 | µg/L |
| 4-Chlorotoluene | ND | 1 | 5.0 | µg/L |
| 4-Methyl-2-Pentanone(MIBK) | ND | 1 | 20 | µg/L |
| Acetone | ND | 1 | 20 | µg/L |
| Acetonitrile | ND | 1 | 5.0 | µg/L |
| Acrolein | ND | 1 | 5.0 | µg/L |
| Acrylonitrile | ND | 1 | 5.0 | µg/L |
| Benzene | ND | 1 | 0.50 | µg/L |
| Benzyl Chloride | ND | 1 | 5.0 | µg/L |
| Bromobenzene | ND | 1 | 0.50 | µg/L |
| Bromochloromethane | ND | 1 | 0.50 | µg/L |
| Bromodichloromethane | ND | 1 | 0.50 | µg/L |
| Bromoform | ND | 1 | 0.50 | µg/L |
| Bromomethane | ND | 1 | 0.50 | µg/L |
| Carbon Disulfide | ND | 1 | 0.50 | µg/L |
| Carbon Tetrachloride | ND | 1 | 0.50 | µg/L |
| Chlorobenzene | ND | 1 | 0.50 | µg/L |
| Chloroethane | ND | 1 | 0.50 | µg/L |
| Chloroform | ND | 1 | 0.50 | µg/L |
| Chloromethane | ND | 1 | 0.50 | µg/L |
| cis-1,2-Dichloroethene | ND | 1 | 0.50 | µg/L |
| cis-1,3-Dichloropropene | ND | 1 | 0.50 | µg/L |
| Cyclohexanone | ND | 1 | 20 | µg/L |
| Dibromochloromethane | ND | 1 | 0.50 | µg/L |
| Dibromomethane | ND | 1 | 0.50 | µg/L |

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

**Method Blank - Liquid - EPA 8260B - EPA 8260B**

**QC Batch ID: WM1050801**

Validated by: MaiChiTu - 08/01/05

**QC Batch Analysis Date: 8/1/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 1 | 0.50 | µg/L |
| Diisopropyl Ether | ND | 1 | 5.0 | µg/L |
| Ethyl Benzene | ND | 1 | 0.50 | µg/L |
| Freon 113 | ND | 1 | 5.0 | µg/L |
| Hexachlorobutadiene | ND | 1 | 5.0 | µg/L |
| Iodomethane | ND | 1 | 1.0 | µg/L |
| Isopropanol | ND | 1 | 20 | µg/L |
| Isopropylbenzene | ND | 1 | 1.0 | µg/L |
| Methylene Chloride | ND | 1 | 5.0 | µg/L |
| Methyl-t-butyl Ether | ND | 1 | 1.0 | µg/L |
| Naphthalene | ND | 1 | 5.0 | µg/L |
| n-Butylbenzene | ND | 1 | 5.0 | µg/L |
| n-Propylbenzene | ND | 1 | 5.0 | µg/L |
| Pentachloroethane | ND | 1 | 0.50 | µg/L |
| p-Isopropyltoluene | ND | 1 | 5.0 | µg/L |
| sec-Butylbenzene | ND | 1 | 5.0 | µg/L |
| Styrene | ND | 1 | 0.50 | µg/L |
| tert-Amyl Methyl Ether | ND | 1 | 5.0 | µg/L |
| tert-Butanol (TBA) | ND | 1 | 10 | µg/L |
| tert-Butyl Ethyl Ether | ND | 1 | 5.0 | µg/L |
| tert-Butylbenzene | ND | 1 | 5.0 | µg/L |
| Tetrachloroethene | ND | 1 | 0.50 | µg/L |
| Tetrahydrofuran | ND | 1 | 20 | µg/L |
| Toluene | ND | 1 | 0.50 | µg/L |
| trans-1,2-Dichloroethene | ND | 1 | 0.50 | µg/L |
| trans-1,3-Dichloropropene | ND | 1 | 0.50 | µg/L |
| trans-1,4-Dichloro-2-butene | ND | 1 | 1.0 | µg/L |
| Trichloroethene | ND | 1 | 0.50 | µg/L |
| Trichlorofluoromethane | ND | 1 | 0.50 | µg/L |
| Vinyl Acetate | ND | 1 | 5.0 | µg/L |
| Vinyl Chloride | ND | 1 | 0.50 | µg/L |
| Xylenes, Total | ND | 1 | 0.50 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 99.4 | 70 - 125 |
| Dibromofluoromethane | 108 | 70 - 125 |
| Toluene-d8 | 98.9 | 70 - 125 |

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

**Method Blank - Liquid - EPA 8260B - EPA 8260B**

**QC Batch ID: WM1050802**

Validated by: bdhabalia - 08/03/05

**QC Batch Analysis Date: 8/2/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1 | 0.50 | µg/L |
| 1,1,1-Trichloroethane | ND | 1 | 0.50 | µg/L |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 0.50 | µg/L |
| 1,1,2-Trichloroethane | ND | 1 | 0.50 | µg/L |
| 1,1-Dichloroethane | ND | 1 | 0.50 | µg/L |
| 1,1-Dichloroethene | ND | 1 | 0.50 | µg/L |
| 1,1-Dichloropropene | ND | 1 | 0.50 | µg/L |
| 1,2,3-Trichlorobenzene | ND | 1 | 5.0 | µg/L |
| 1,2,3-Trichloropropane | ND | 1 | 0.50 | µg/L |
| 1,2,4-Trichlorobenzene | ND | 1 | 5.0 | µg/L |
| 1,2,4-Trimethylbenzene | ND | 1 | 5.0 | µg/L |
| 1,2-Dibromo-3-Chloropropane | ND | 1 | 5.0 | µg/L |
| 1,2-Dibromoethane (EDB) | ND | 1 | 0.50 | µg/L |
| 1,2-Dichlorobenzene | ND | 1 | 0.50 | µg/L |
| 1,2-Dichloroethane | ND | 1 | 0.50 | µg/L |
| 1,2-Dichloropropane | ND | 1 | 0.50 | µg/L |
| 1,3,5-Trimethylbenzene | ND | 1 | 5.0 | µg/L |
| 1,3-Dichlorobenzene | ND | 1 | 0.50 | µg/L |
| 1,3-Dichloropropane | ND | 1 | 0.50 | µg/L |
| 1,4-Dichlorobenzene | ND | 1 | 0.50 | µg/L |
| 1,4-Dioxane | ND | 1 | 50 | µg/L |
| 2,2-Dichloropropane | ND | 1 | 0.50 | µg/L |
| 2-Butanone (MEK) | ND | 1 | 20 | µg/L |
| 2-Chloroethyl-vinyl Ether | ND | 1 | 5.0 | µg/L |
| 2-Chlorotoluene | ND | 1 | 5.0 | µg/L |
| 2-Hexanone | ND | 1 | 20 | µg/L |
| 4-Chlorotoluene | ND | 1 | 5.0 | µg/L |
| 4-Methyl-2-Pentanone(MIBK) | ND | 1 | 20 | µg/L |
| Acetone | ND | 1 | 20 | µg/L |
| Acetonitrile | ND | 1 | 5.0 | µg/L |
| Acrolein | ND | 1 | 5.0 | µg/L |
| Acrylonitrile | ND | 1 | 5.0 | µg/L |
| Benzene | ND | 1 | 0.50 | µg/L |
| Benzyl Chloride | ND | 1 | 5.0 | µg/L |
| Bromobenzene | ND | 1 | 0.50 | µg/L |
| Bromochloromethane | ND | 1 | 0.50 | µg/L |
| Bromodichloromethane | ND | 1 | 0.50 | µg/L |
| Bromoform | ND | 1 | 0.50 | µg/L |
| Bromomethane | ND | 1 | 0.50 | µg/L |
| Carbon Disulfide | ND | 1 | 0.50 | µg/L |
| Carbon Tetrachloride | ND | 1 | 0.50 | µg/L |
| Chlorobenzene | ND | 1 | 0.50 | µg/L |
| Chloroethane | ND | 1 | 0.50 | µg/L |
| Chloroform | ND | 1 | 0.50 | µg/L |
| Chloromethane | ND | 1 | 0.50 | µg/L |
| cis-1,2-Dichloroethene | ND | 1 | 0.50 | µg/L |
| cis-1,3-Dichloropropene | ND | 1 | 0.50 | µg/L |
| Cyclohexanone | ND | 1 | 20 | µg/L |
| Dibromochloromethane | ND | 1 | 0.50 | µg/L |
| Dibromomethane | ND | 1 | 0.50 | µg/L |

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

**Method Blank - Liquid - EPA 8260B - EPA 8260B**

**QC Batch ID: WM1050802**

Validated by: bdhabalia - 08/03/05

**QC Batch Analysis Date: 8/2/2005**

| Parameter | Result | DF | PQLR | Units |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 1 | 0.50 | µg/L |
| Diisopropyl Ether | ND | 1 | 5.0 | µg/L |
| Ethyl Benzene | ND | 1 | 0.50 | µg/L |
| Freon 113 | ND | 1 | 5.0 | µg/L |
| Hexachlorobutadiene | ND | 1 | 5.0 | µg/L |
| Iodomethane | ND | 1 | 1.0 | µg/L |
| Isopropanol | ND | 1 | 20 | µg/L |
| Isopropylbenzene | ND | 1 | 1.0 | µg/L |
| Methylene Chloride | ND | 1 | 5.0 | µg/L |
| Methyl-t-butyl Ether | ND | 1 | 1.0 | µg/L |
| Naphthalene | ND | 1 | 5.0 | µg/L |
| n-Butylbenzene | ND | 1 | 5.0 | µg/L |
| n-Propylbenzene | ND | 1 | 5.0 | µg/L |
| Pentachloroethane | ND | 1 | 0.50 | µg/L |
| p-Isopropyltoluene | ND | 1 | 5.0 | µg/L |
| sec-Butylbenzene | ND | 1 | 5.0 | µg/L |
| Styrene | ND | 1 | 0.50 | µg/L |
| tert-Amyl Methyl Ether | ND | 1 | 5.0 | µg/L |
| tert-Butanol (TBA) | ND | 1 | 10 | µg/L |
| tert-Butyl Ethyl Ether | ND | 1 | 5.0 | µg/L |
| tert-Butylbenzene | ND | 1 | 5.0 | µg/L |
| Tetrachloroethene | ND | 1 | 0.50 | µg/L |
| Tetrahydrofuran | ND | 1 | 20 | µg/L |
| Toluene | ND | 1 | 0.50 | µg/L |
| trans-1,2-Dichloroethene | ND | 1 | 0.50 | µg/L |
| trans-1,3-Dichloropropene | ND | 1 | 0.50 | µg/L |
| trans-1,4-Dichloro-2-butene | ND | 1 | 1.0 | µg/L |
| Trichloroethene | ND | 1 | 0.50 | µg/L |
| Trichlorofluoromethane | ND | 1 | 0.50 | µg/L |
| Vinyl Acetate | ND | 1 | 5.0 | µg/L |
| Vinyl Chloride | ND | 1 | 0.50 | µg/L |
| Xylenes, Total | ND | 1 | 0.50 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 104 | 70 - 125 |
| Dibromofluoromethane | 113 | 70 - 125 |
| Toluene-d8 | 103 | 70 - 125 |

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

## Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline

**QC Batch ID: WGC4050728** Reviewed by: bdhabalia - 08/01/05

**QC Batch ID Analysis Date: 7/28/2005**

### LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|---|---|---|---|---|---|---|
| TPH as Gasoline | <50 | 250 | 254 | µg/L | 102 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 93.7 | 65 - 135 |

### LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | <50 | 250 | 254 | µg/L | 102 | 0.0 | 25.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 104 | 65 - 135 |

## Laboratory Control Sample / Duplicate - Liquid - EPA 8020 - BTEX

**QC Batch ID: WGC4050728** Reviewed by: bdhabalia - 08/01/05

**QC Batch ID Analysis Date: 7/28/2005**

### LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|---|---|---|---|---|---|---|
| Benzene | <0.50 | 8.0 | 7.90 | µg/L | 98.8 | 65 - 135 |
| Ethyl Benzene | <0.50 | 8.0 | 7.60 | µg/L | 95.0 | 65 - 135 |
| Toluene | <0.50 | 8.0 | 7.86 | µg/L | 98.2 | 65 - 135 |
| Xylenes, total | <0.50 | 24 | 23.1 | µg/L | 96.2 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 99.3 | 65 - 135 |

### LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.50 | 8.0 | 8.20 | µg/L | 102 | 3.7 | 25.0 | 65 - 135 |
| Ethyl Benzene | <0.50 | 8.0 | 8.09 | µg/L | 101 | 6.2 | 25.0 | 65 - 135 |
| Toluene | <0.50 | 8.0 | 8.50 | µg/L | 106 | 7.8 | 25.0 | 65 - 135 |
| Xylenes, total | <0.50 | 24 | 24.8 | µg/L | 103 | 7.1 | 25.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 102 | 65 - 135 |

## Laboratory Control Sample / Duplicate - Liquid - EPA 8020 - MTBE by EPA 8020

**QC Batch ID: WGC4050728** Reviewed by: bdhabalia - 08/01/05

**QC Batch ID Analysis Date: 7/28/2005**

### LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | <1.0 | 8.0 | 7.41 | µg/L | 92.6 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 99.3 | 65 - 135 |

### LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | <1.0 | 8.0 | 7.12 | µg/L | 89.0 | 4.0 | 25.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 102 | 65 - 135 |

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

## Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline

**QC Batch ID: WGC4050729**

Reviewed by: bdhabalia - 08/01/05

**QC Batch ID Analysis Date: 7/29/2005**

### LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|---|---|---|---|---|---|---|
| TPH as Gasoline | <50 | 250 | 253 | µg/L | 101 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 102 | 65 - 135 |

### LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | <50 | 250 | 246 | µg/L | 98.4 | 2.8 | 25.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 103 | 65 - 135 |

## Laboratory Control Sample / Duplicate - Liquid - EPA 8020 - BTEX

**QC Batch ID: WGC4050729**

Reviewed by: bdhabalia - 08/01/05

**QC Batch ID Analysis Date: 7/29/2005**

### LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|---|---|---|---|---|---|---|
| Benzene | <0.50 | 8.0 | 7.74 | µg/L | 96.8 | 65 - 135 |
| Ethyl Benzene | <0.50 | 8.0 | 7.62 | µg/L | 95.2 | 65 - 135 |
| Toluene | <0.50 | 8.0 | 7.76 | µg/L | 97.0 | 65 - 135 |
| Xylenes, total | <0.50 | 24 | 23.2 | µg/L | 96.5 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 98.6 | 65 - 135 |

### LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.50 | 8.0 | 7.78 | µg/L | 97.2 | 0.52 | 25.0 | 65 - 135 |
| Ethyl Benzene | <0.50 | 8.0 | 7.63 | µg/L | 95.4 | 0.13 | 25.0 | 65 - 135 |
| Toluene | <0.50 | 8.0 | 7.78 | µg/L | 97.2 | 0.26 | 25.0 | 65 - 135 |
| Xylenes, total | <0.50 | 24 | 23.1 | µg/L | 96.2 | 0.35 | 25.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 98.7 | 65 - 135 |

## Laboratory Control Sample / Duplicate - Liquid - EPA 8020 - MTBE by EPA 8020

**QC Batch ID: WGC4050729**

Reviewed by: bdhabalia - 08/01/05

**QC Batch ID Analysis Date: 7/29/2005**

### LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | <1.0 | 8.0 | 7.14 | µg/L | 89.2 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 98.6 | 65 - 135 |

### LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl Ether | <1.0 | 8.0 | 7.14 | µg/L | 89.2 | 0.0 | 25.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 98.7 | 65 - 135 |

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

**Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - EPA 8260B**

**QC Batch ID: WM1050801**

Reviewed by: bdhabalia - 08/01/05

**QC Batch ID Analysis Date: 8/1/2005**

## LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.50 | 20 | 18.7 | µg/L | 93.3 | 70 - 130 |
| Benzene | <0.50 | 20 | 18.8 | µg/L | 93.9 | 70 - 130 |
| Chlorobenzene | <0.50 | 20 | 19.0 | µg/L | 94.8 | 70 - 130 |
| Methyl-t-butyl Ether | <1.0 | 20 | 23.4 | µg/L | 117 | 70 - 130 |
| Toluene | <0.50 | 20 | 18.8 | µg/L | 94.1 | 70 - 130 |
| Trichloroethene | <0.50 | 20 | 17.0 | µg/L | 85.2 | 70 - 130 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 104 | 70 - 125 |
| Dibromofluoromethane | 117 | 70 - 125 |
| Toluene-d8 | 113 | 70 - 125 |

## LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.50 | 20 | 19.7 | µg/L | 98.6 | 5.4 | 25.0 | 70 - 130 |
| Benzene | <0.50 | 20 | 20.0 | µg/L | 99.9 | 6.2 | 25.0 | 70 - 130 |
| Chlorobenzene | <0.50 | 20 | 19.7 | µg/L | 98.3 | 3.5 | 25.0 | 70 - 130 |
| Methyl-t-butyl Ether | <1.0 | 20 | 23.4 | µg/L | 117 | 0.043 | 25.0 | 70 - 130 |
| Toluene | <0.50 | 20 | 19.6 | µg/L | 98.2 | 4.4 | 25.0 | 70 - 130 |
| Trichloroethene | <0.50 | 20 | 17.7 | µg/L | 88.3 | 3.5 | 25.0 | 70 - 130 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | 106 | 70 - 125 |
| Dibromofluoromethane | 117 | 70 - 125 |
| Toluene-d8 | 111 | 70 - 125 |

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

**Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - EPA 8260B**

**QC Batch ID: WM1050802**

Reviewed by: bdhabalia - 08/03/05

**QC Batch ID Analysis Date: 8/2/2005**

## LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.50 | 20 | 17.9 | µg/L | 89.5 | 70 - 130 |
| Benzene | <0.50 | 20 | 17.9 | µg/L | 89.5 | 70 - 130 |
| Chlorobenzene | <0.50 | 20 | 18.6 | µg/L | 93.0 | 70 - 130 |
| Methyl-t-butyl Ether | <1.0 | 20 | 21.1 | µg/L | 106 | 70 - 130 |
| Toluene | <0.50 | 20 | 18.6 | µg/L | 93.0 | 70 - 130 |
| Trichloroethene | <0.50 | 20 | 16.7 | µg/L | 83.5 | 70 - 130 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | **109** | 70 - 125 |
| Dibromofluoromethane | **111** | 70 - 125 |
| Toluene-d8 | **106** | 70 - 125 |

## LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.50 | 20 | 22.8 | µg/L | 114 | **24** | 25.0 | 70 - 130 |
| Benzene | <0.50 | 20 | 22.5 | µg/L | 112 | **23** | 25.0 | 70 - 130 |
| Chlorobenzene | <0.50 | 20 | 23.9 | µg/L | 120 | **25** | 25.0 | 70 - 130 |
| Methyl-t-butyl Ether | <1.0 | 20 | 26.0 | µg/L | 130 | **21** | 25.0 | 70 - 130 |
| Toluene | <0.50 | 20 | 23.6 | µg/L | 118 | **24** | 25.0 | 70 - 130 |
| Trichloroethene | <0.50 | 20 | 21.2 | µg/L | 106 | **24** | 25.0 | 70 - 130 |

| Surrogate | % Recovery | Control Limits |
|---|---|---|
| 4-Bromofluorobenzene | **104** | 70 - 125 |
| Dibromofluoromethane | **104** | 70 - 125 |
| Toluene-d8 | **100** | 70 - 125 |

# Entech Analytical Labs, Inc.

3334 Victor Court (408) 588-0200
Santa Clara, CA 95054 (408) 588-0201 - Fax

# Chain of Custody / Analysis Request

| | | | | | |
|---|---|---|---|---|---|
| Attention to: BRENT WHEELER | Phone No.: 415-512-1555 | Purchase Order No.: | Invoice to: (If Different) | Phone: | |
| Company Name: GGTR | Fax No.: | Project No.: 7335 | Company: | Quote No.: | |
| Mailing Address: 255 SHIPLEY | Email Address: data@ggtr.com | Project Name: | Billing Address: (If Different) | | |
| City: SAN FRANCISCO | State: CA Zip Code: 94107 | Project Location: 5930 COLLEGE AVE | City: OAKLAND | State: CA | Zip: |

Sampler: GW

Field Org. Code:

Global ID: T0600102112

**Turn Around Time**
- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☑ ~~5~~ Day
- ☐ 10 Day

**Order ID:**

| Client ID / Field Point | Lab. No. | Sample Date | Sample Time | Matrix | No. of Containers | GC/MS Methods: EPA 8260B; BTEX ☐ MTBE ☐ TPH Gas ☐ by 8260B; 5 Oxygenates (MTBE, TBA, ETBA, DIPE, TAME) ☐ Lead Scavengers (1,2-DCA & EDB) ☐ Ethanol ☐; Base/Neutral/Acid Organics 8270C ☐ PAH - 8270C SIM ☐; TPH Extractable: Diesel ☐ Motor Oil ☐ Other ☐ w/ Si-Gel Cleanup ☐; Pesticides-8081 ☐ PCBs - 8082 ☐; TPH as Gas/BTEX ☐ MTBE ☐ by 8015M/8020; Methanol by 8015M | GC Methods: TPH-G BTEX MTBE (8021B); VOCs (8260B) | General Chemistry: Anions: F ☐ Cl ☐ Br ☐ SO4 ☐ NO3 ☐ NO2 ☐ PO4 ☐; pH ☐ TSS ☐ SC ☐ TOC ☐ TRPH ☐ O & G ☐; Metals - Circle Below Total ☐ Dissolved ☐ STLC ☐ TCLP ☐ | Remarks |
|---|---|---|---|---|---|---|---|---|
| 7335-MW1 | | 7-26-05 | 1300 | W | 5 | | X | X | 44573-001 |
| 7335-MW2 | | ↓ | 1315 | W | 5 | | X | X | 002 |
| 7335-MW3 | | | 1250 | W | 5 | | X | X | 003 |
| 7335-PW-1 | | ↓ | 1320 | W | 5 | | X | X | 004 |

| | | | |
|---|---|---|---|
| Relinquished by: GWO | Received by: | Date: 7/27/05 | Time: 11 11 |
| Relinquished by: | Received by: | Date: 7/27/05 | Time: 1555 |
| Relinquished by: | Received by: | Date: | Time: |

**Special Instructions or Comments**

**Metals:**
Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn,
Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Tl, Sn, Ti, Zn, V, W, Zr

- ☐ EDD Report
- ☑ ~~EDF~~ Report
- ☐ Plating
- ☐ LUFT-5
- ☐ RCRA-8
- ☐ PPM-13
- ☐ CAM-17

# *Golden Gate Tank Removal, Inc.*

## FLUID-LEVEL MONITORING DATA

Project No: 7335 Date: 7-26-05

Project/Site Location: 5930 COLLEGE AVE OAKLAND

Technician: WOLF Instrument: KECK

| Boring/ Well | Depth to Water (feet) | Depth to Product (feet) | Product Thickness (feet) | Total Well Depth (feet) | Comments DO | MSL |
|---|---|---|---|---|---|---|
| DRIVE INSIDE SOUTH MW1 | 7.60 | ø | ø | 14.6 | 1.5 mg/L 17.1% | 188.30 |
| MW2 | 8.95 | ø | ø | 19.8 | 0.55 mg/L 6.2% | 188.33 |
| MW3 | 6.90 | ø | ø | 18.8 | 0.52 mg/L 5.6% | 188.32 |
| PW1 | 8.63 | ø | ø | 18.3 | 0.62 mg/L 4.9% | 188.54 |
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Measurements referenced to: ✓ TOC _____ Grade. Page __ __ of __ __

# *Golden Gate Tank Removal, Inc.*

## WELL PURGING/SAMPLING DATA

Project Number: 7335 Date: 7-26-05

Project / Site Location: 5930 COLLEGE AVE
OAKLAND

**Sampler/Technician:** WOLF

| Casing/Borehole Diameter (inches) | 0.75/1.75 | 2/3 | 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.** MW1

| | | |
|---|---|---|
| A. Total Well Depth | 14.6 | Ft.(toc) |
| B. Depth To Water | 7.6 | Ft. |
| C. Water Height (A-B) | 7.0 | Ft. |
| D. Well Casing Diameter | | In. |
| E. Casing Volume Constant (from above table) | | |
| F. Three (3) Casing or Borehole Volumes (CxEx3) | 4.2 | Gals. |
| G. 80% Recharge Level [B+(ExC)] | | Ft. |

*Purge Event #1*
Start Time: 1137
Finish Time: 1149
Purge Volume: 4.5

*Recharge #1*
Depth to Water:
Time Measured:

*Purge Event #2*
Start Time:
Finish Time:
Purge Volume:

*Recharge #2*
Depth to Water:
Time Measured:

**Well Fluid Parameters:**
(Casing or Borehole Volumes)

| | 0 | 1 | 1.5 | 2 | 2.5 | 3 |
|---|---|---|---|---|---|---|
| pH | 7.12 | 7.1 | 7.12 | 7.08 | 7.07 | 7.06 |
| T (°F) | 18.6 | 19.1 | 19.2 | 19.6 | 19.5 | 19.5 |
| Cond. | 804 | 748 | 746 | 736 | 739 | 739 |
| DO | | | | | | |
| Turbidity | | | | | | |
| ORP | | | | | | |

**Summary Data:**
Total Gallons Purged:
Purge device:
Sampling Device:
Sample Collection Time: 1300
Sample Appearance: clear · odor

**Well No.** MW2

| | | |
|---|---|---|
| A. Total Well Depth | 19.8 | Ft.(toc) |
| B. Depth To Water | 8.9 | Ft. |
| C. Water Height (A-B) | | Ft. |
| D. Well Casing Diameter | | In. |
| E. Casing Volume Constant (from above table) | | |
| F. Three (3) Casing or Borehole Volumes (CxEx3) | 6.54 | Gals. |
| G. 80% Recharge Level [B+(ExC)] | | Ft. |

*Purge Event #1*
Start Time: 1200
Finish Time: 1211
Purge Volume: 7

*Recharge #1*
Depth to Water:
Time Measured:

*Purge Event #2*
Start Time:
Finish Time:
Purge Volume:

*Recharge #2*
Depth to Water:
Time Measured:

**Well Fluid Parameters:**
(Casing or Borehole Volumes)

| | 0 | 1 | 1.5 | 2 | 2.5 | 3 |
|---|---|---|---|---|---|---|
| pH | 7.1 | 7.14 | 7.18 | 7.16 | 7.13 | 7.10 |
| T (°F) | 19.1 | 19.2 | 19.4 | 19.3 | 19.2 | 19.0 |
| Cond. | 941 | 927 | 900 | 924 | 924 | 921 |
| DO | | | | | | |
| Turbidity | | | | | | |
| ORP | | | | | | |

**Summary Data:**
Total Gallons Purged:
Purge device:
Sampling Device:
Sample Collection Time: 1315
Sample Appearance: clear odor

*Drums Remaining Onsite:* 1 *Total Volume:* 30 *Gals. (Show Location on Site Plan)*

# *Golden Gate Tank Removal, Inc.*

## WELL PURGING/SAMPLING DATA

Project Number: 7335 Date: 7-26-05

Project / Site Location: College

**Sampler/Technician:**

| 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 |

**Well No.** MW3

| | | |
|---|---|---|
| A. Total Well Depth | 18.8 | Ft.(toc) |
| B. Depth To Water | 6.9 | Ft. |
| C. Water Height (A-B) | 11.9 | Ft. |
| D. Well Casing Diameter | | In. |
| E. Casing Volume Constant (from above table) | | |
| F. Three (3) Casing or Borehole Volumes (CxEx3) | 7.14 | Gals. |
| G. 80% Recharge Level [B+(ExC)] | 9.28 | Ft. |

*Purge Event #1*
Start Time: 1110
Finish Time: 1118
Purge Volume: 7.2

*Recharge #1*
Depth to Water:
Time Measured:

*Purge Event #2*
Start Time:
Finish Time:
Purge Volume:

*Recharge #2*
Depth to Water:
Time Measured:

**Well Fluid Parameters:**
(Casing or Borehole Volumes)

| | | | | | | |
|---|---|---|---|---|---|---|
| pH | 7.6 | 7.62 | 7.48 | 7.19 | 7.27 | 7.29 |
| T(°F) | 18.2 | 18.1 | 18.4 | 18.3 | 18.2 | 18.0 |
| Cond. | 402 | 355 | 338 | 348 | 347 | 382 |
| DO | | | | | | |
| Turbidity | | | | | | |
| ORP | | | | | | |

**Summary Data:**
Total Gallons Purged:
Purge device:
Sampling Device:
Sample Collection Time: 1250
Sample Appearance: CLEAR N/O N/S

**Well No.** PW1

| | | |
|---|---|---|
| A. Total Well Depth | 18.3 | Ft.(toc) |
| B. Depth To Water | 8.63 | Ft. |
| C. Water Height (A-B) | 9.67 | Ft. |
| D. Well Casing Diameter | 2.0 | In. |
| E. Casing Volume Constant (from above table) | 0.2 | |
| F. Three (3) Casing or Borehole Volumes (CxEx3) | 5.8 | Gals. |
| G. 80% Recharge Level [B+(ExC)] | 10.5 | Ft. |

*Purge Event #1*
Start Time: 1223
Finish Time: 1235
Purge Volume: 6

*Recharge #1*
Depth to Water:
Time Measured:

*Purge Event #2*
Start Time:
Finish Time:
Purge Volume:

*Recharge #2*
Depth to Water:
Time Measured:

**Well Fluid Parameters:**
(Casing or Borehole Volumes)

| | | | | | | |
|---|---|---|---|---|---|---|
| pH | 7.47 | 7.5 | 7.1 | 7.02 | 7.12 | 7.10 |
| T(°F) | 19.8 | 19.9 | 19.7 | 19.9 | 19.8 | 19.8 |
| Cond. | 940 | 425 | 411 | 374 | 343 | 343 |
| DO | | | | | | |
| Turbidity | | | | | | |
| ORP | | | | | | |

**Summary Data:**
Total Gallons Purged:
Purge device:
Sampling Device:
Sample Collection Time: 1320
Sample Appearance: SILTY N/O S/

*Drums Remaining Onsite:* _____ *Total Volume:* _____ *Gals. (Show Location on Site Plan)*

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## UPLOADING A GEO_WELL FILE

**Processing is complete. No errors were found!**
**Your file has been successfully submitted!**

| | |
|---|---|
| **Submittal Title:** | **fluid level monitoring data; MW1-MW3, PW-1, 7/26/05** |
| **Submittal Date/Time:** | **10/24/2005 11:46:26 AM** |
| **Confirmation Number:** | **7508621037** |

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**Confirmation Number:** 3351294159

**Date/Time of Submittal:** 10/24/2005 11:09:03 AM

**Facility Global ID:** T0600102112

**Facility Name:** SHEAFFS SERVICE GARAGE

**Submittal Title:** 44573: 7/26/2005 Groundwater Monitoring Analytical Data (MW1-MW3, PW1)

**Submittal Type:** GW Monitoring Report

**Click here to view the detections report for this upload.**

**SHEAFFS SERVICE GARAGE**
5930 COLLEGE AVE
OAKLAND, CA 94618

**Regional Board - Case #: 01-2296**
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
**Local Agency (lead agency) - Case #: 514**
ALAMEDA COUNTY LOP - **(AG)**

| CONF # | TITLE | QUARTER |
|---|---|---|
| 3351294159 | 44573: 7/26/2005 Groundwater Monitoring Analytical Data (MW1-MW3, PW1) | Q3 2005 |

| SUBMITTED BY | SUBMIT DATE | STATUS |
|---|---|---|
| Brent Wheeler | 10/24/2005 | PENDING REVIEW |

## SAMPLE DETECTIONS REPORT

| | |
|---|---|
| # FIELD POINTS SAMPLED | 4 |
| # FIELD POINTS WITH DETECTIONS | 4 |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 4 |
| SAMPLE MATRIX TYPES | WATER |

## METHOD QA/QC REPORT

| | |
|---|---|
| METHODS USED | CATPH-G,SW8020,SW8260B |
| TESTED FOR REQUIRED ANALYTES? | N |
| MISSING PARAMETERS NOT TESTED: | |
| - CATPH-G REQUIRES TPHC6C12 TO BE TESTED | |
| - SW8260B REQUIRES EDB TO BE TESTED | |
| LAB NOTE DATA QUALIFIERS | N |

## QA/QC FOR 8021/8260 SERIES SAMPLES

| | |
|---|---|
| TECHNICAL HOLDING TIME VIOLATIONS | 0 |
| METHOD HOLDING TIME VIOLATIONS | 0 |
| LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT | 0 |
| LAB BLANK DETECTIONS | 0 |
| DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? | |
| - LAB METHOD BLANK | Y |
| - MATRIX SPIKE | N |
| - MATRIX SPIKE DUPLICATE | N |
| - BLANK SPIKE | Y |
| - SURROGATE SPIKE | Y |

**WATER SAMPLES FOR 8021/8260 SERIES**

| | |
|---|---|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% | n/a |
| SURROGATE SPIKES % RECOVERY BETWEEN 85-115% | N |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% | N |

**SOIL SAMPLES FOR 8021/8260 SERIES**

| | |
|---|---|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% | n/a |
| SURROGATE SPIKES % RECOVERY BETWEEN 70-125% | n/a |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% | n/a |

**FIELD QC SAMPLES**

| SAMPLE | COLLECTED | DETECTIONS > REPDL |
|---|---|---|
| QCTB SAMPLES | N | 0 |
| QCEB SAMPLES | N | 0 |
| QCAB SAMPLES | N | 0 |

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