



ENVIRONMENTAL PROTECTION

98 SEP 30 PM 3:40

- ① Need to verify GW flow direction at nearby sites. Site plan show GW to SW, but MW is north of former US<sup>1</sup>'s
- ② call lab to nearby ND for benzene, yet high tox.

### QUARTERLY MONITORING REPORT

Three Months Ending 09/30/98

5930 College Avenue  
Oakland, California  
STID # 514

Job No. 7335  
September 21, 1998

prepared for

William Sheaff  
61 Dunbarton Court  
San Ramon, CA 94583

③ Need to confirm mt BE w/ 8260.

④ Dreyers @ 5929 College had release. upg. MW-6 w/ low levels of HC. GW WSW (down Chabot). Maybe subject site not impacting significantly the Dreyers site

⑤ Claremont creek / converted storm drain channel runs down College and Chabot thus can intercept contaminants



*John Carver*  
John Carver  
Civil Engineer 23772

### Introduction

This report presents the results and findings of the September 10, 1998 quarterly groundwater sampling conducted by GOLDEN GATE TANK REMOVAL (GGTR) at the 5930 College Avenue Leaking Underground Tank (LUST) site in Oakland, California. This monitoring episode was for the three month period ending September 30, 1998 and was the second monitoring event. The Alameda County Health Services Agency (HSA) has designated the site STID (case ID) 514. A Vicinity Map showing the general area of the site is presented on Figure 1 of Appendix A, and a Site Plan is shown on Figure 2 of Appendix A.

### Project History

Two underground storage tanks were removed from the site during 1996 by GGTR. The following summary shows the tank designations, size, type of construction and contents.

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

The ages of the tanks are unknown but are believed to be between 40 and 60 years old. During the removal there was evidence of a leak and a program of over-excavation of contaminated soil was carried out by GGTR. The removal and over-excavation was documented in the GGTR report dated October 11, 1996.

The following Chronology shows the significant work carried out at the site.

### CHRONOLOGY

08/06/96	Tanks 1 and 2 were removed and samples taken.
08/15/96	A Work Plan was published by GGTR for additional excavation and soil disposal.
09/30/96	Additional excavation 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	HSA published letter requiring soil and groundwater investigation.
03/10/97	GGTR authorized to prepare a Work Plan for additional investigation.
04/01/97	GGTR publishes work plan for a Soil and Groundwater Investigation.
04/21/97	HSA published letter authorizing work plan.
05/06/98	GGTR drills borings B1 through B3.
05/20/98	GGTR drills boring 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	<b>GGTR publishes Soil and Groundwater Investigation Report.</b>
09/10/98	<b>GGTR measures, purges and samples monitoring well MW1.</b>

### Field Procedures

The second GGTR monitoring and sampling of the groundwater monitoring well was performed on September 10, 1998 in accordance with the requirements and procedures of the California Regional Water Quality Control Board, San Francisco Region (RWQCB) and the HSA.

Prior to purging and sampling the well, the depth to groundwater in the well was measured from the top of casing to the nearest 0.01 foot using an electronic sounding probe. A preliminary groundwater sample was also collected at this time and checked for the presence of liquid-phase hydrocarbons or sheen with a clear acrylic bailer.

After measuring, the well was purged a minimum of three casing volumes until the pH, temperature and conductivity of the purge water were essentially stable. Groundwater samples for analyses were collected by lowering a disposable, 2 inch diameter bottom-fill, polyvinyl chloride (PVC) bailer to just below the air-water interface in the well. The sample was then carefully decanted from the bailer into the appropriate containers. All volatile organic analysis (VOA) vials were inverted and checked to insure that no entrapped air was present. The samples were then properly labeled with the sample number, well number, sample date, and the sampler's initials. The samples were then stored in an iced cooler for delivery to a California certified laboratory following proper preservation and chain-of-custody procedures.

### Sample Analyses

The groundwater samples taken from the Groundwater Monitoring Wells was analyzed for the following:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G),
- Total Extractable Petroleum Hydrocarbons (TEPH),
- Volatile aromatic hydrocarbons Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX),
- Methyl Tertiary Butyl Ether (MTBE),

All volatile analyses were performed by September 17, 1998. This 7 day hold time is in conformance with the maximum 14 day hold time for these analyses. Quality Assurance and Quality Control (QA/QC) details are shown on the laboratory certificates in Appendix B.

### Monitoring and Analytical Results

The results of the monitoring and laboratory analyses of the groundwater carried out to date are summarized in Table 1, attached. Copies of the official laboratory certificates and the chain-of-custody form are included in Appendix B.

No sheen or free product were noted during the purging and sampling of the groundwater monitoring well MW1. There was an odor associated with the purge water. Documentation of the purging and sampling is contained in Appendix C.

#### Soil and Water Disposal

On June 6, 1998 the one 55 gallon drum which contained the drill cuttings from the monitoring well installation were loaded onto a truck and was disposed of at the Forward Incorporated Class II facility in Manteca California. A copy of the Non-Hazardous Waste Manifest 62213 is attached in Appendix D.

Americlean. was contracted to dispose of the 40 gallons of purge and development water stored at the site. On July 15, 1998 the water was pumped and disposed of at Americlean TSDf in Nevada under Uniform Hazardous Waste Manifest 983444064. A copy of the manifest is attached in Appendix D.

#### Discussion

The analytical results of the September 10, 1999 sampling episode have been reviewed along with the results of the previous monitoring episode. There was an increase in TPH-G. MTBE and Benzene both decreased. All analytical results are tabulated on the attached Table I. Copies of the Laboratory Reports are presented in Appendix B.

The soil cuttings and the development purge water generated during the well construction and monitoring have been disposed of at appropriate TSDf facilities. Copies of the manifests are included in appendix D.

We recommend that the monitoring of the Groundwater Monitoring Well MW1 be continued on a quarterly basis as required by the LUFT manual and the HSA. The next scheduled quarterly monitoring should occur during December, 1998. The sample obtained at that time should be analyzed for TPH-G, TPH-D, BTEX, MTBE, TEPH and Total Lead.

Currently there is work being carried out to install two additional monitoring wells at the site. Certain documentation is required so that the inside drilling will be accomplished on a weekend to avoid disruption of the on-going business.

#### Report Submittal to Regulatory Agencies

We recommend that copies of this report be sent to:

Alameda County Health Care Services  
Environmental Health Services  
Environmental Protection (LOP)  
1131 Harbor Bay Parkway Suite 250  
Alameda, CA 94502  
Attention: Madullah Logan

and

California Regional Water Quality Control Board  
San Francisco Region  
2101 Webster Street, Suite 500  
Oakland, California 94612

TABLE 1

GROUNDWATER MONITORING

FOR

5930 College Avenue  
Oakland, California  
STID # 514

Job No. 7335  
September 21, 1998

TABLE 1

GROUNDWATER MONITORING

FOR

5930 College Avenue  
Oakland, California  
STID # 514

Job No. 7335  
September 21, 1998

**GROUNDWATER MONITORING RESULTS  
PROJECT 7335**

**TABLE I**

Monitoring Well Number	Sample Date	Casing Elevation	Depth to Ground-water (feet)	Ground-water Elevation	Free Product or Sheen	TPH-G (ppb)	TEPH (ppm)	MTBE (ppb)	BTEX (ppb)
MW1	06/01/98	50.00*	4.81	45.19	slight sheen	160,000	ND	1,900	28,000/21,000/3,800/21,000
MW1	09/10/98	50.00*	7.50	42.50	odor	290,000	ND	440	<50/25,000/7,100/32,000

NOTES:      TPH-G      Total Petroleum Hydrocarbons as Gasoline  
               TPH-D      Total Petroleum Hydrocarbons as Diesel  
               TEPH      Total Extractable Petroleum Hydrocarbons  
               MTBE      Methyl Tertiary Butyl Ether  
               ppb      parts per billion  
               ppm      parts per million  
               \*      assumed  
               NT



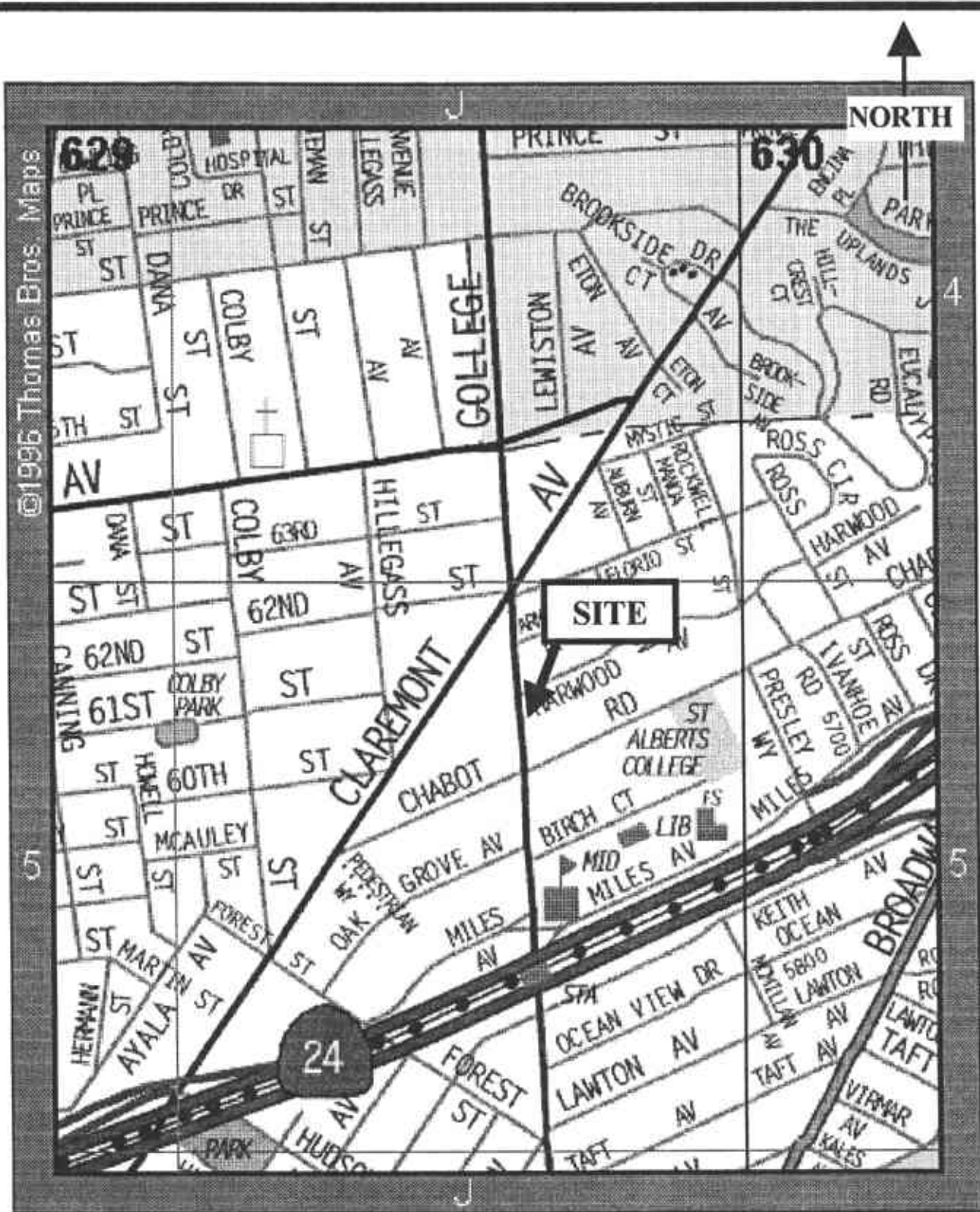
APPENDIX A  
FIGURES 1 AND 2

GROUNDWATER MONITORING

FOR

5930 College Avenue  
Oakland, California  
STID # 514

Job No. 7335  
September 21, 1998



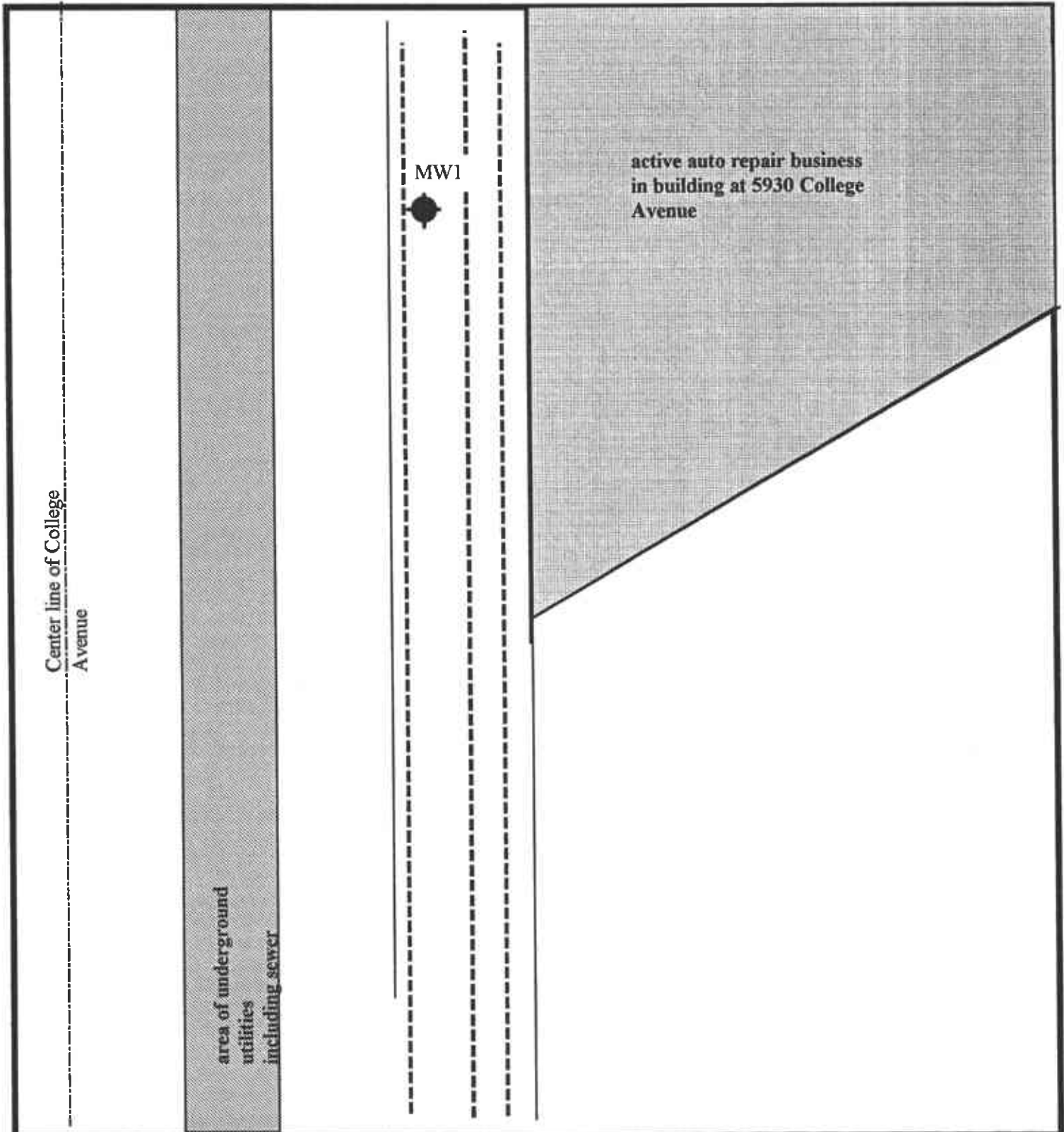
**GOLDEN GATE TANK REMOVAL**

255 Shipley Street  
 San Francisco, California 94107  
 Telephone (415) 512 1555 Fax (415) 512 0964

**VICINITY MAP**

5930 College Avenue  
 Oakland, California

Project 7335	By: jnc	Not to scale	September, 1998	Figure 1
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**GOLDEN GATE TANK REMOVAL**

255 Shipley Street  
 San Francisco, CA 94107  
 Telephone (415) 512 1555 Fax (415) 512 0964

**MONITORING WELL LOCATION**  
 5930 College Avenue  
 Oakland, California

Project 7335	By: jnc	1" = 10'	September 1998	Figure 2
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**APPENDIX B  
LABORATORY CERTIFICATES  
AND  
CHAIN OF CUSTODY  
GROUNDWATER MONITORING**

**FOR**

**5930 College Avenue  
Oakland, California  
STID # 514**

**Job No. 7335  
September 21, 1998**



North State Environmental  
Chemical Waste Disposal · Trucking · Consulting

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

Lab Number: 98-1097  
Client: Golden Gate Tank  
Project: 37335 / 5930 College Ave

Date Reported: 09/18/98

Gasoline, BTEX and MTBE by Methods 8015M and 8020  
Total Extractable Petroleum Hydrocarbons by SM 5520 E&F

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-1097-01	Client ID: 7335-GW			09/10/98	WATER
Gasoline	8015M	290000	ug/L		09/17/98
Benzene	8020	ND<50	ug/L		
Ethylbenzene	8020	7100	ug/L		
MTBE	8020	440	ug/L		
Toluene	8020	25000	ug/L		
Xylenes	8020	32000	ug/L		
TEPH	5520F	ND			09/12/98



**North State Environmental**  
Chemical Waste Disposal • Trucking • Consulting

## CERTIFICATE OF ANALYSIS

Quality Control/Quality Assurance

Lab Number: 98-1097  
Client: Golden Gate Tank  
Project: 37335 / 5930 College Ave

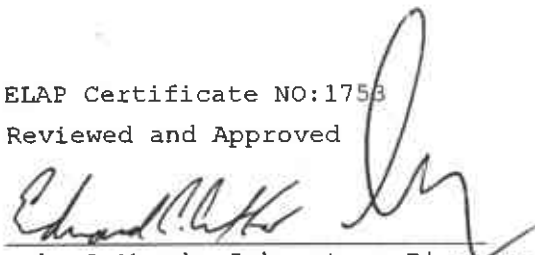
Date Reported: 09/18/98

Gasoline, BTEX and MTBE by Methods 8015M and 8020  
Total Extractable Petroleum Hydrocarbons by SM 5520 E&F

Analyte	Method	Reporting Limit	Unit	Blank	MS/MSD Recovery	RPD
TEPH	5520F	50	mg/Kg	ND	86	13
Gasoline	8015M	0.5	mg/Kg	ND	108	1
Benzene	8020	.005	mg/Kg	ND	123	2
Ethylbenzene	8020	.005	mg/Kg	ND	112	1
Toluene	8020	.005	mg/Kg	ND	114	2
Xylenes	8020	.010	mg/Kg	ND	111	1
MTBE	8020	.005	mg/Kg	ND	103	3

ELAP Certificate NO:1753

Reviewed and Approved



John A. Murphy, Laboratory Director

Page 2 of 2



# North State Environmental Analytical Laboratory

Phone: (415) 588-9652 Fax: (415) 588-1950

98-1097

Chain of Custody / Request for Analysis

Lab Job No.: \_\_\_\_\_ Page 2 of \_\_\_\_\_

Client: <b>GGTR</b>	Report to: <b>Carver</b>	Phone:	Turnaround Time <b>Normal</b>	
Mailing Address:	Billing to:	Fax:		Date: <b>9/10/08</b>
		PO# / Billing Reference: <b>7335</b>		Sampler: <b>Carver</b>

Project / Site Address: <b>5930 College Ave</b>					Analysis Requested				Comments/Hazards
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	<b>TPH-C</b>	<b>TERH</b>	<b>MTBE</b>	<b>BTEX</b>	
<b>7335-GW</b>	<b>WWT</b>	<b>2 Vol 157</b>	<b>cool</b>	<b>9/10/08 0800</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	

Relinquished by: <b>[Signature]</b>	Date: <b>9/10/08</b> Time: <b>3:55</b>	Received by: <b>[Signature]</b>	Lab Comments
Relinquished by:	Date: Time:	Received by:	
Relinquished by:	Date: Time:	Received by:	

APPENDIX C  
PURGING AND SAMPLING  
DOCUMENTATION  
GROUNDWATER MONITORING

FOR

5930 College Avenue  
Oakland, California  
STID # 514

Job No. 7335  
September 21, 1998





## GROUNDWATER WELL MONITORING FIELD DATA SHEET

Project Number 1335 Site Name 3930 College Date 3/1/09  
 Well Number MW1 Sampler SCARV

Notes, including field conditions, persons on site, methods used, weather A.M.  
0900 warm clear  
d. s.g. barter  
John Sheaf

Well Depth 15 ft. time of sample 0900 Depth to water 7.50 ft  
 Well Diameter 2" sheen or free product No - slight odor

Volume Height of water	Diameter		Volume	Number of well volumes	total gallons to purge
	2 inch	4 inch			
Column <u>7.8</u> ft.	<u>(0.16)</u>	0.65	<u>1.2</u> gals.	<u>3m</u>	<u>3.6</u> gal

Quality of purge water \_\_\_\_\_

TIME	VOLUME PURGED	pH	CONDUCTIVITY	TEMP	NOTES
<u>0</u>	<u>0900</u> gals	<u>7.76</u>	<u>10.74</u>	<u>65.8</u>	<u>Cloudy</u>
<u>1</u>	gals	<u>7.72</u>	<u>10.80</u>	<u>65.4</u>	
<u>2</u>	gals	<u>7.53</u>	<u>11.13</u>	<u>64.2</u>	
<u>3</u>	gals	<u>7.37</u>	<u>10.26</u>	<u>63.7</u>	
<u>4</u>	gals	<u>7.38</u>	<u>6.11</u>	<u>63.8</u>	
<u>5</u>	gals	<u>7.20</u>	<u>9.83</u>	<u>63.9</u>	
<u>6</u>	gals	<u>7.16</u>	<u>9.60</u>	<u>63.1</u>	
<u>7</u>	<u>0850</u> gals	<u>7.15</u>	<u>5.31</u>	<u>63.5</u>	<u>Getting clear</u>

Additional comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**APPENDIX D  
HAZARDOUS WASTE MANIFESTS  
GROUNDWATER MONITORING**

**FOR**

**5930 College Avenue  
Oakland, California  
STID # 514**

**Job No. 7335  
September 21, 1998**



**JOB ACCEPTANCE NO.**

70-9655

TO BE COMPLETED BY THE GENERATOR

**GENERATOR**  
William Sheaff  
**MAILING ADDRESS**  
61 Dunbarton Road  
**CITY, STATE, ZIP**  
San Ramon CA 94583  
**PHONE**  
415 512 1555  
**CONTACT PERSON**  
John Corvel  
**SIGNATURE OF AUTHORIZED AGENT / TITLE** \* [Signature]  
**DATE** 6/18/8

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**  
 GLOVES  GOGGLES  RESPIRATOR  HARD HAT  
 TY-VEK  OTHER

**SPECIAL HANDLING PROCEDURES:**

**WASTE TYPE**

<input type="checkbox"/> TREATMENT SOIL	<input type="checkbox"/> SLUDGE
<input checked="" type="checkbox"/> DISPOSAL SOIL	<input type="checkbox"/> NON-FRIABLE ASBESTOS
<input type="checkbox"/> CONSTRUCTION SOIL	<input type="checkbox"/> WOOD
	<input type="checkbox"/> ASH
	<input type="checkbox"/> OTHER

**RECEIVING FACILITY**

FORWARD INC. LANDFILL  
9999 SOUTH AUSTIN ROAD  
MANTECA, CALIFORNIA 95336  
(209) 982-4298 PHONE  
(209) 982-1009 FAX

**GENERATING FACILITY**  
5930 College Ave  
Oakland

TRANSPORTER  
HAULER MUST COMPLETE

**NAME**  
Golden Gate Tank Removal  
**ADDRESS**  
255 Shipley St.  
**CITY, STATE, ZIP**  
San Francisco CA 94107  
**PHONE**  
415 512 1555  
**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** \* [Signature]  
**DATE**

**NOTES:**  
# 7335  
2122089

**TRUCK NUMBER**

<input type="checkbox"/> END DUMP	<input type="checkbox"/> BOTTOM DUMP	<input type="checkbox"/> TRANSFER
<input type="checkbox"/> ROLL-OFF(S)	<input type="checkbox"/> FLAT-BED	<input type="checkbox"/> VAN
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> DRUMS

FACILITY REQUIREMENTS

**FORWARD INC. LANDFILL**

Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** \* [Signature]  
**DATE** 6/18/8

**CUBIC YARDS**  
166

**DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)**

	DISPOSE	BIO	AERATE	STOCKPILE	OTHER
<input checked="" type="checkbox"/> SOIL					
<input type="checkbox"/> SLUDGE					
<input type="checkbox"/> NON-FRIABLE ASBESTOS					
<input type="checkbox"/> WOOD					
<input type="checkbox"/> ASH					
<input type="checkbox"/> OTHER					

98344064  
 IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550  
 GENERATOR  
 TRANSPORTER  
 FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. CAL 000003165		Manifest Document No. 44064		2. Page 1 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address MR WILLIAM G STEAFF LIE OF TRUST 61 DUNBARTON COURT SACRAMENTO, CA 95833				A. State Manifest Document Number 98344064		B. State Generator's ID							
4. Generator's Phone ( )				C. State Transporter's ID		D. Transporter's Phone 209-892-8800							
5. Transporter 1 Company Name AMERICAN CLEAN				6. US EPA ID Number NV D982358183		E. State Transporter's ID							
7. Transporter 2 Company Name				8. US EPA ID Number		F. Transporter's Phone							
9. Designated Facility Name and Site Address AMERICAN CLEAN, 2530 Almond Drive Silver Springs, NV 89429				10. US EPA ID Number NV D982358183		G. State Facility's ID							
						H. Facility's Phone 1-800-471-7105							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Val		I. Waste Number State EPA/Other	
a. <del>Oil and Water</del> Non RCRA Hazardous Waste Liquid Used Oil & water						991 17		9190910		G		State 223 EPA/Other 223	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above Fuel, Oil and Water						K. Handling Codes for Wastes Listed Above a. 01 b. c. d.							
15. Special Handling Instructions and Additional Information 24 Hr. Emergency Contact: CGTR (415) 512-1555 Appropriate Protective Clothing and Respirator						Job Site Address: 5930 College Avenue, #7335							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Tom Haller				Signature Tom Haller				Month 07		Day 15		Year 98	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Patrick M. Leach				Signature Patrick M. Leach				Month 07		Day 15		Year 98	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Month		Day		Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name				Signature				Month		Day		Year	

DO NOT WRITE BELOW THIS LINE.