



ENVIRONMENTAL  
PROTECTION

00 FEB 25 PM 4: 33

*Discontinue SVICS + HVOE analysis  
Just do TPHs, BTEX + MTBE -  
do confirmation (8260) in  
NW-1 and NW-2*

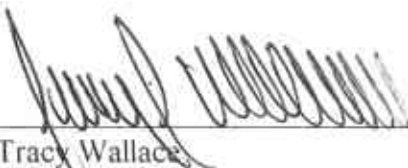
**QUARTERLY MONITORING REPORT**  
**Three Months Ending 01/31/00**


5930 College Avenue  
Oakland, California  
STID # 514


Job No. 7335  
February 18, 2000

prepared for

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

  
\_\_\_\_\_  
Tracy Wallace  
Principal

  
\_\_\_\_\_  
Civil Engineer 25772



### Introduction

This report presents the results and findings of the January 26, 2000 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 January 31, 2000 and was the second monitoring event of all three monitoring wells on the site. 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	GGTR publishes Soil and Groundwater Investigation Report.

- 07/21/98 GGTR publishes Work Plan Addendum for installation of two additional groundwater monitoring wells
- 09/10/98 GGTR measures, purges and samples monitoring well MW1.
- 09/21/98 GGTR publishes 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 and MW3 and measures, purges and samples monitoring wells MW1, MW2 and MW3.
- 10/22/99 **GGTR publishes Summary Report.**
- 11/24/99 **HCS publishes 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.**

#### Field Procedures

The second complete three well monitoring and sampling was performed by GGTR on January 26, 2000 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 wells, the depth to groundwater in each 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, each 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 wells. 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 all three wells were analyzed for the following:

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

Additionally, per the HCS letter of 11/04/99 the sample from MW3 was also analyzed for:

- Volatile Organic Compounds (VOC),
- Semi-Volatile Organic Compounds (SVOC),

All volatile analyses were performed by January 31, 2000. This 5 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.

There was a sheen noted during the purging and sampling of the groundwater monitoring well MW1. There was an odor associated with the purge water. No sheen or odors were noted in MW2 or MW3. Documentation of the purging and sampling is contained in Appendix C.

The measurements taken during the monitoring were used to calculate a groundwater gradient. The groundwater gradient for the January 26, 2000 monitoring event has been calculated and is shown on Figure 3 of Appendix B. The groundwater gradient calculated for the second monitoring event with three data points is:

<u>Date</u>	<u>Direction</u>	<u>Slope</u>
10/07/99	11° west of south	0.67 feet per 100 feet
01/26/00	23° west of north	9.12 feet per 100 feet

#### Discussion

The results of the January, 2000 sampling episode have been reviewed along with the results of the previous monitoring episodes. There was an increase in TPH-G in MW 1 and MW2. TPH-G decreased in MW3.

There was a significant shift in the groundwater gradient. It shifted from almost due south to almost due north (a 142 degree shift). the shift may have been a result of heavy rains which occurred in the several days preceding the monitoring event and also to the extreme shallow nature of the groundwater (5 to 8 feet below grade).

All analytical results are tabulated on Table I presented as Appendix A. Copies of the Laboratory Reports are presented in Appendix B.

We recommend that the monitoring of the three groundwater monitoring wells be continued on a quarterly basis as required by the LUFT manual and the HSA. The next

April 2000

January 18, 2000

scheduled quarterly monitoring should occur during December, 1998. The three samples obtained at that time should be analyzed for TPH-G, BTEX and MTBE. The sample obtained from MW3 will also be analyzed for Total Oil and Grease, VOC and SVOC.

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: Eva Chu

and

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

APPENDIX A

TABLE I

GROUNDWATER MONITORING

FOR

5930 College Avenue  
Oakland, California  
STID # 514

Job No. 7335  
January 18, 2000

**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
MW1	10/07/99	50.00	10.04	39.96	odor	85,000	ND	1,100	20,000/13,000/3,800/17,000
MW1	01/26/00	50.00	8.26	41.74	slight sheen	130,000	--	470	25,000/18,000/4,500/22,000
MW2	10/07/99	51.42	11.49	39.93	slight odor	18,000	ND	490	3,000/1,700/1,000/3,900
MW2	01/26/00	51.42	7.85	43.57	none	42,000	--	560	9,300/2,200/2,300/7,700
MW3	10/07/99	49.39	9.67	39.72	none	6,600	ND	390	310/110/430/1,000
MW3	01/26/00	49.39	5.40	43.99	none	3,300	--	40**	110/8/100/32

\*\* ND MTBE w/8260

- 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
  - Not analyzed

The following Volatile Organic Compounds (VOC) were detected in the sample from MW3.

ANALYTE	parts per billion
Benzene	90
Toluene	2
Ethylbenzene	78
m,p-Xylene	14
o-Xylene	1
Isopropylbenzene	18
n-Propyl Benzene	51
1,3,5-Trimethylbenzene	6
1,2,4-Trimethylbenzene	23
sec-Butylbenzene	6
p-Isopropyltoluene	1
Napthalene	28

All other analytes were non detect (ND)

The following Semi-Volatile Organic Compounds (SVOC) were detected in the sample from MW3.

ANALYTE	parts per billion
Napthalene	21

All other analytes were non detect (ND)



APPENDIX B  
FIGURES 1, 2 AND 3

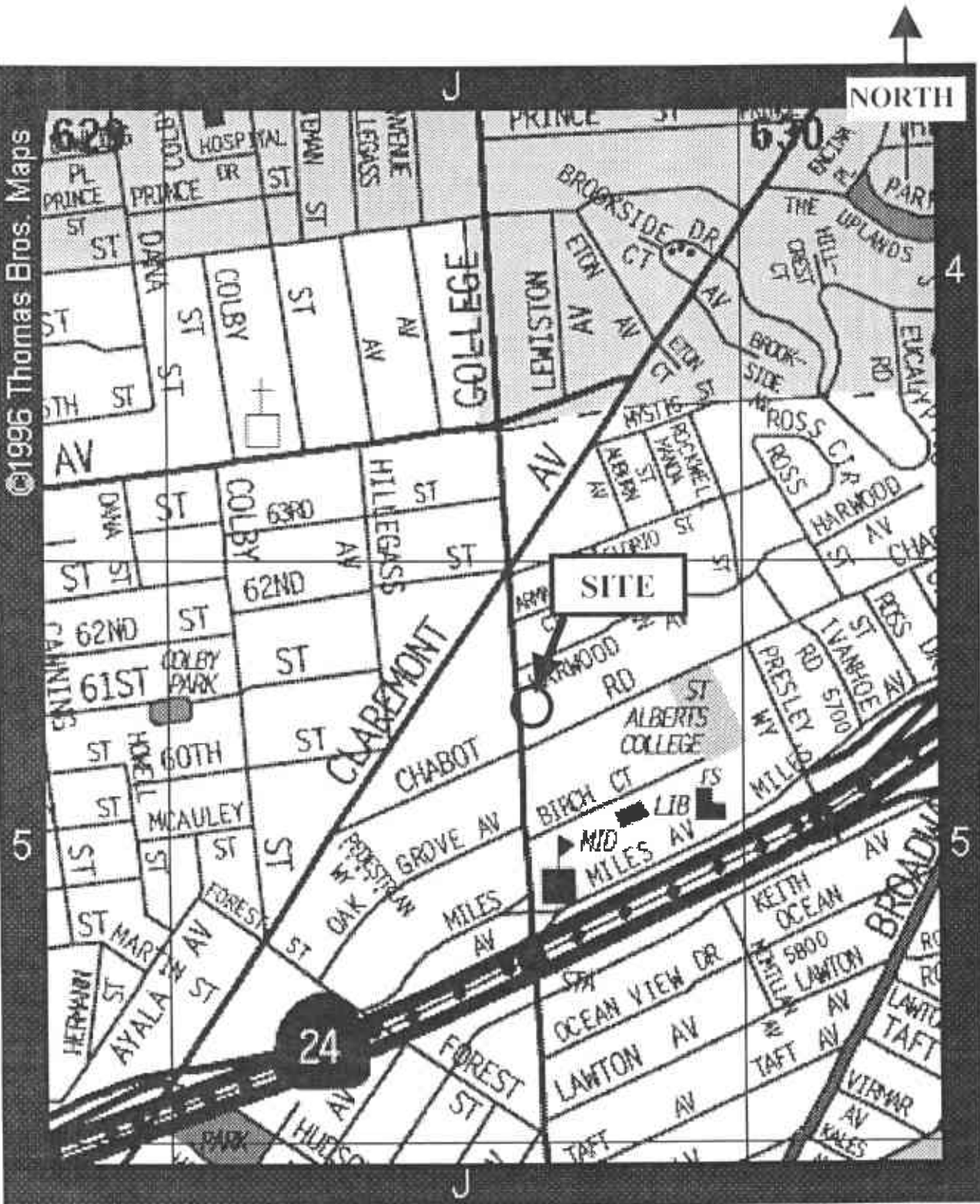
GROUNDWATER MONITORING

FOR

5930 College Avenue  
Oakland, California  
STID # 514

Job No. 7335  
January 18, 2000

©1996 Thomas Bros. Maps



### GOLDEN GATE TANK REMOVAL

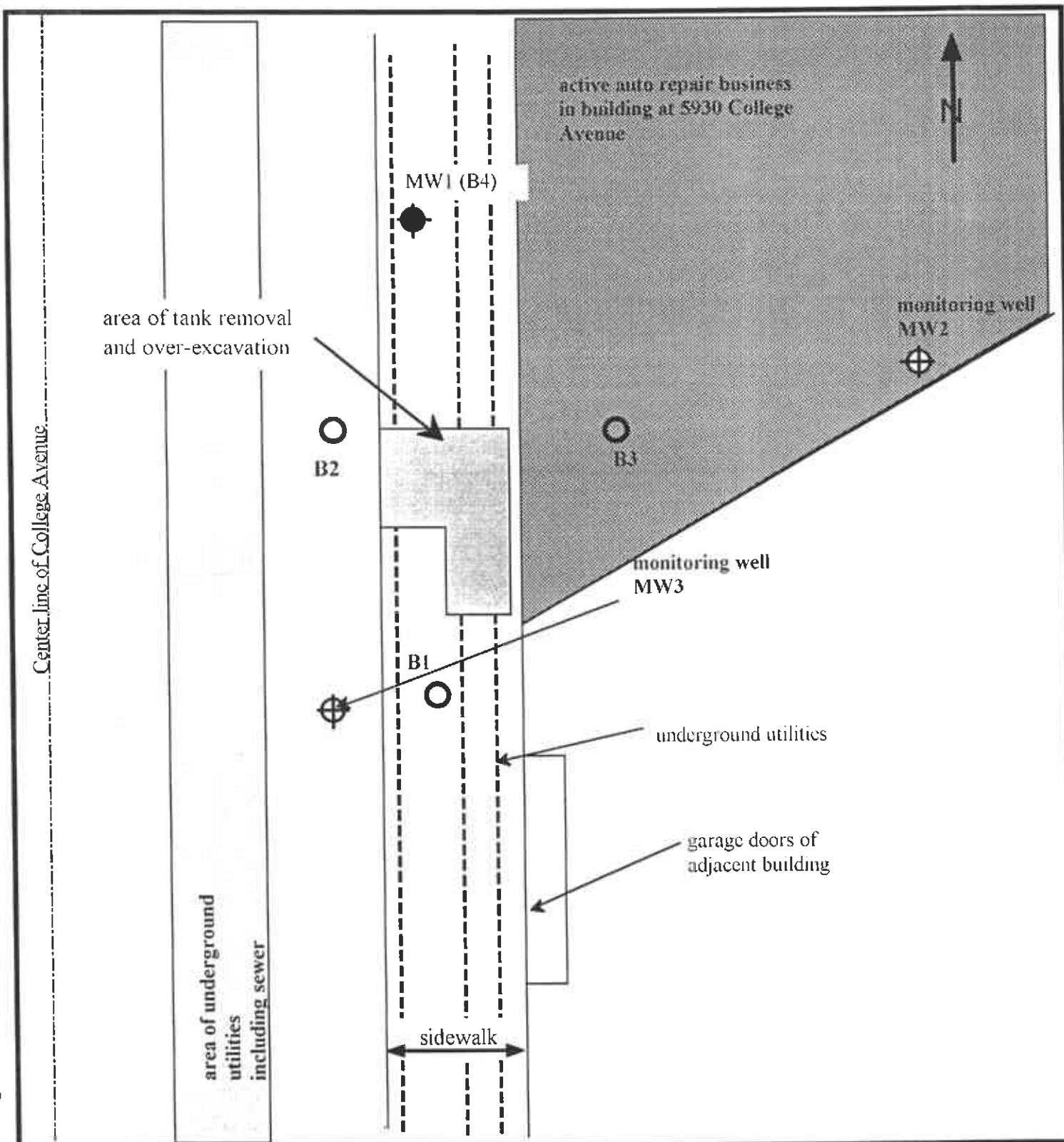
255 Shipley Street  
San Francisco, California 94107

Telephone (415) 512 1555 Fax (415) 512 0964

### VICINITY MAP

5930 College Avenue  
Oakland, California

Project 7335	By: jnc	Not to scale	January, 2000	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

SITE PLAN  
 5930 College Avenue  
 Oakland, California

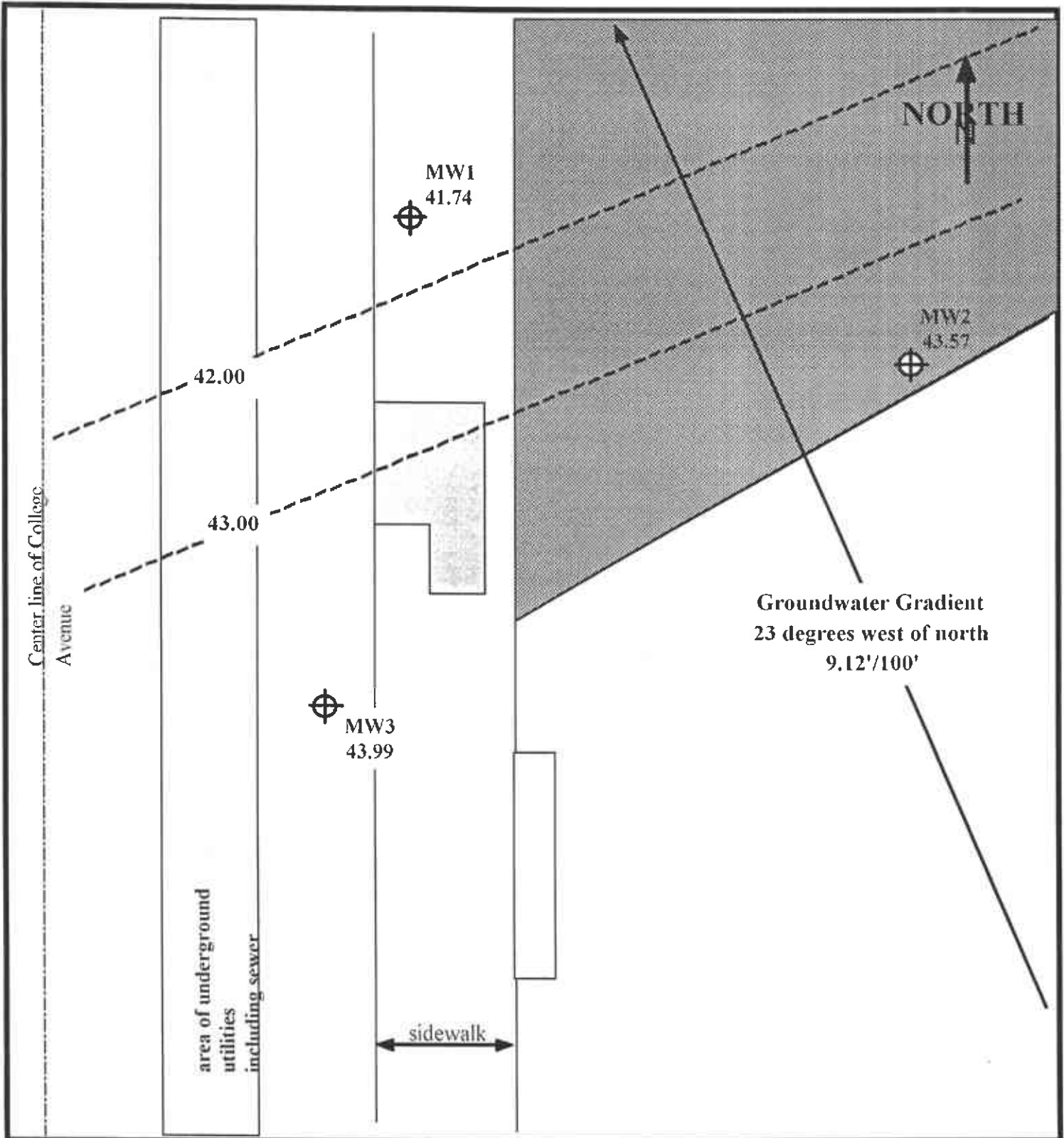
Project 7335

By: jnc

1" = 10'

February 2000

Figure 2



**GOLDEN GATE TANK REMOVAL**

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

**GROUNDWATER GRADIENT**

01/26/00  
 5930 College Avenue  
 Oakland, California

Project 7335

By: jnc

1" = 10'

February 2000

Figure 3

APPENDIX C  
LABORATORY CERTIFICATES  
AND  
CHAIN OF CUSTODY  
GROUNDWATER MONITORING

FOR

5930 College Avenue  
Oakland, California  
STID # 514

Job No. 7335  
January 18, 2000



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

Lab Number: 00-0119
Client: Golden Gate Tank
Project: 7335/5930 College

Date Reported: 02/04/2000

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains three sample entries (00-0119-01, 00-0119-02, 00-0119-03) with various analyte results.

\*Confirmed by GC/MS method 8260.



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

Quality Control/Quality Assurance

Lab Number: 00-0119
Client: Golden Gate Tank
Project: 7335/5930 College

Date Reported: 02/04/2000

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Table with 7 columns: Analyte, Method, Reporting Limit, Unit, Blank, Avg MS/MSD Recovery, RPD. Rows include Gasoline, Benzene, Ethylbenzene, Toluene, Xylenes, and MTBE.

ELAP Certificate NO:1753

Reviewed and Approved

Signature of John A. Murphy, Laboratory Director



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

Job Number: 00-0119
Client : Golden Gate Tank
Project : 7335/5930 College

Date Sampled : 01/26/2000
Date Analyzed: 01/31/2000
Date Reported: 02/04/2000

Volatile Organics by GC/MS Method 8260

Table with 2 columns: Analyte and Concentration. Lists various chemical compounds and their measured levels, such as Bromochloromethane (ND<5), Dichlorodifluoromethane (ND<5), and Benzene (90).





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

Job Number: 00-0119
Client : Golden Gate Tank
Project : 7335/5930 College

Date Sampled : 01/26/2000
Date Analyzed: 01/31/2000
Date Reported: 02/04/2000

Volatile Organics by GC/MS Method 8260

Table with 2 columns: Laboratory Number, Client ID, Matrix, Analyte, and concentration values (ug/L). Lists various chemical compounds and their detection levels.



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

Job Number: 00-0119
Client : Golden Gate Tank
Project : 7335/5930 College

Date Sampled : 01/26/2000
Date Analyzed: 01/31/2000
Date Reported: 02/04/2000

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

Table with 4 columns: Analyte, Results ug/L, %Recoveries, RPD. Lists various chemical compounds and their detection results.



CERTIFICATE OF ANALYSIS

Job Number: 00-0119
Client : Golden Gate Tank
Project : 7335/5930 College

Date Sampled : 01/26/2000
Date Analyzed: 01/31/2000
Date Reported: 02/04/2000

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

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results, %Recoveries, RPD. Lists various chemical compounds and their detection results.

Reviewed and Approved

Signature of John A. Murphy
John A. Murphy
Laboratory Director



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0434

## Semi-volatile Organic Compounds

<b>North State Environmental</b>	<input type="checkbox"/> 90 S. Spruce Street, Suite W South San Francisco, CA 94080
Attn: John Murphy	Phone: (650) 266-4563 Fax: (650) 266-4560
Project #: 00-0119	Project

## Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
7335-MW-3	Water	01/26/2000 13:30	1

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
 Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-01-0434

To: North State Environmental  
Attn.: John MurphyTest Method: 8270A  
Prep Method: 3510/8270A

## Semi-volatile Organic Compounds

Sample ID: 7335-MW-3	Lab Sample ID: 2000-01-0434-001
Project: 00-0119	Received: 01/28/2000 13:40
Sampled: 01/26/2000 13:30	Extracted: 01/31/2000 12:23
Matrix: Water	QC-Batch: 2000/01/31-01.11

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2-Chlorophenol	ND	2.0	ug/L	1.00	02/01/2000 05:23	
1,3-Dichlorobenzene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
1,4-Dichlorobenzene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Benzyl alcohol	ND	5.0	ug/L	1.00	02/01/2000 05:23	
1,2-Dichlorobenzene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2-Methylphenol	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	1.00	02/01/2000 05:23	
4-Methylphenol	ND	2.0	ug/L	1.00	02/01/2000 05:23	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Hexachloroethane	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Nitrobenzene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Isophorone	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2-Nitrophenol	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2,4-Dimethylphenol	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	1.00	02/01/2000 05:23	
2,4-Dichlorophenol	ND	2.0	ug/L	1.00	02/01/2000 05:23	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Naphthalene	21	2.0	ug/L	1.00	02/01/2000 05:23	
4-Chloroaniline	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Hexachlorobutadiene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
4-Chloro-3-methylphenol	ND	5.0	ug/L	1.00	02/01/2000 05:23	
2-Methylnaphthalene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Hexachlorocyclopentadiene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2,4,6-Trichlorophenol	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2,4,5-Trichlorophenol	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2-Chloronaphthalene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2-Nitroaniline	ND	10	ug/L	1.00	02/01/2000 05:23	
Dimethyl phthalate	ND	5.0	ug/L	1.00	02/01/2000 05:23	
Acenaphthylene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
3-Nitroaniline	ND	10	ug/L	1.00	02/01/2000 05:23	
Acenaphthene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2,4-Dinitrophenol	ND	10	ug/L	1.00	02/01/2000 05:23	
4-Nitrophenol	ND	10	ug/L	1.00	02/01/2000 05:23	
Dibenzofuran	ND	2.0	ug/L	1.00	02/01/2000 05:23	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-01-0434

To: North State Environmental  
Attn.: John MurphyTest Method: 8270A  
Prop Method: 3510/8270A

## Semi-volatile Organic Compounds

Sample ID: 7335-MW-3	Lab Sample ID: 2000-01-0434-001
Project: 00-0119	Received: 01/28/2000 13:40
Sampled: 01/26/2000 13:30	Extracted: 01/31/2000 12:23
Matrix: Water	QC-Batch: 2000/01/31-01.11

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
2,6-Dinitrotoluene	ND	5.0	ug/L	1.00	02/01/2000 05:23	
Diethyl phthalate	ND	5.0	ug/L	1.00	02/01/2000 05:23	
4-Chlorophenyl phenyl ether	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Fluorene	ND	5.0	ug/L	1.00	02/01/2000 05:23	
4-Nitroaniline	ND	10	ug/L	1.00	02/01/2000 05:23	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	1.00	02/01/2000 05:23	
N-Nitrosodiphenylamine	ND	2.0	ug/L	1.00	02/01/2000 05:23	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1.00	02/01/2000 05:23	
Hexachlorobenzene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Pentachlorophenol	ND	10	ug/L	1.00	02/01/2000 05:23	
Phenanthrene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Anthracene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Di-n-butyl phthalate	ND	5.0	ug/L	1.00	02/01/2000 05:23	
Fluoranthene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Pyrene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Butyl benzyl phthalate	ND	5.0	ug/L	1.00	02/01/2000 05:23	
3,3-Dichlorobenzidine	ND	5.0	ug/L	1.00	02/01/2000 05:23	
Benzo(a)anthracene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	1.00	02/01/2000 05:23	
Chrysene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Di-n-octyl phthalate	ND	5.0	ug/L	1.00	02/01/2000 05:23	
Benzo(b)fluoranthene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Benzo(k)fluoranthene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Benzo(a)pyrene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Benzo(g,h,i)perylene	ND	2.0	ug/L	1.00	02/01/2000 05:23	
Benzoic acid	ND	10	ug/L	1.00	02/01/2000 05:23	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	76.9	35-114	%	1.00	02/01/2000 05:23	
2-Fluorobiphenyl	85.8	43-116	%	1.00	02/01/2000 05:23	
p-Terphenyl-d14	91.4	33-141	%	1.00	02/01/2000 05:23	
Phenol-d5	33.9	10-110	%	1.00	02/01/2000 05:23	
2-Fluorophenol	49.5	25-100	%	1.00	02/01/2000 05:23	
2,4,6-Tribromophenol	97.9	10-123	%	1.00	02/01/2000 05:23	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

**CHROMALAB, INC.**

Submission #: 2000-01-0434

Environmental Services (SDB)

To: North State Environmental  
Attn.: John MurphyTest Method: 8270A  
Prep Method: 3510/8270A**Batch QC Report**  
Semi-volatile Organic Compounds

Method Blank	Water	QC Batch # 2000/01/31-01.11
MB: 2000/01/31-01.11-001		Date Extracted: 01/31/2000

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Phenol	ND	2.0	ug/L	01/31/2000 15:23	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	01/31/2000 15:23	
2-Chlorophenol	ND	2.0	ug/L	01/31/2000 15:23	
1,3-Dichlorobenzene	ND	2.0	ug/L	01/31/2000 15:23	
1,4-Dichlorobenzene	ND	2.0	ug/L	01/31/2000 15:23	
Benzyl alcohol	ND	5.0	ug/L	01/31/2000 15:23	
1,2-Dichlorobenzene	ND	2.0	ug/L	01/31/2000 15:23	
2-Methylphenol	ND	2.0	ug/L	01/31/2000 15:23	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	01/31/2000 15:23	
4-Methylphenol	ND	2.0	ug/L	01/31/2000 15:23	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	01/31/2000 15:23	
Hexachloroethane	ND	2.0	ug/L	01/31/2000 15:23	
Nitrobenzene	ND	2.0	ug/L	01/31/2000 15:23	
Isophorone	ND	2.0	ug/L	01/31/2000 15:23	
2-Nitrophenol	ND	2.0	ug/L	01/31/2000 15:23	
2,4-Dimethylphenol	ND	2.0	ug/L	01/31/2000 15:23	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	01/31/2000 15:23	
2,4-Dichlorophenol	ND	2.0	ug/L	01/31/2000 15:23	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	01/31/2000 15:23	
Naphthalene	ND	2.0	ug/L	01/31/2000 15:23	
4-Chloroaniline	ND	2.0	ug/L	01/31/2000 15:23	
Hexachlorobutadiene	ND	2.0	ug/L	01/31/2000 15:23	
4-Chloro-3-methylphenol	ND	5.0	ug/L	01/31/2000 15:23	
2-Methylnaphthalene	ND	2.0	ug/L	01/31/2000 15:23	
Hexachlorocyclopentadiene	ND	2.0	ug/L	01/31/2000 15:23	
2,4,6-Trichlorophenol	ND	2.0	ug/L	01/31/2000 15:23	
2,4,5-Trichlorophenol	ND	2.0	ug/L	01/31/2000 15:23	
2-Chloronaphthalene	ND	2.0	ug/L	01/31/2000 15:23	
2-Nitroaniline	ND	10	ug/L	01/31/2000 15:23	
Dimethyl phthalate	ND	5.0	ug/L	01/31/2000 15:23	
Acenaphthylene	ND	2.0	ug/L	01/31/2000 15:23	
3-Nitroaniline	ND	10	ug/L	01/31/2000 15:23	
Acenaphthene	ND	2.0	ug/L	01/31/2000 15:23	
2,4-Dinitrophenol	ND	10	ug/L	01/31/2000 15:23	
4-Nitrophenol	ND	10	ug/L	01/31/2000 15:23	
Dibenzofuran	ND	2.0	ug/L	01/31/2000 15:23	
2,4-Dinitrotoluene	ND	2.0	ug/L	01/31/2000 15:23	
2,6-Dinitrotoluene	ND	5.0	ug/L	01/31/2000 15:23	
Diethyl phthalate	ND	5.0	ug/L	01/31/2000 15:23	
4-Chlorophenyl phenyl ether	ND	2.0	ug/L	01/31/2000 15:23	

1220 Quary Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096



**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-01-0434

To: **North State Environmental**  
Attn.: John MurphyTest Method: 8270A  
Prep Method: 3510/8270A**Batch QC Report**  
Semi-volatile Organic Compounds

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/01/31-01.11</b>
MB: 2000/01/31-01.11-001		Date Extracted: 01/31/2000

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Fluorene	ND	5.0	ug/L	01/31/2000 15:23	
4-Nitroaniline	ND	10	ug/L	01/31/2000 15:23	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	01/31/2000 15:23	
N-Nitrosodiphenylamine	ND	2.0	ug/L	01/31/2000 15:23	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	01/31/2000 15:23	
Hexachlorobenzene	ND	2.0	ug/L	01/31/2000 15:23	
Pentachlorophenol	ND	10	ug/L	01/31/2000 15:23	
Phenanthrene	ND	2.0	ug/L	01/31/2000 15:23	
Anthracene	ND	2.0	ug/L	01/31/2000 15:23	
Di-n-butyl phthalate	ND	5.0	ug/L	01/31/2000 15:23	
Fluoranthene	ND	2.0	ug/L	01/31/2000 15:23	
Pyrene	ND	2.0	ug/L	01/31/2000 15:23	
Butyl benzyl phthalate	ND	5.0	ug/L	01/31/2000 15:23	
3,3-Dichlorobenzidine	ND	5.0	ug/L	01/31/2000 15:23	
Benzo(a)anthracene	ND	2.0	ug/L	01/31/2000 15:23	
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	01/31/2000 15:23	
Chrysene	ND	2.0	ug/L	01/31/2000 15:23	
Di-n-octyl phthalate	ND	5.0	ug/L	01/31/2000 15:23	
Benzo(b)fluoranthene	ND	2.0	ug/L	01/31/2000 15:23	
Benzo(k)fluoranthene	ND	2.0	ug/L	01/31/2000 15:23	
Benzo(a)pyrene	ND	2.0	ug/L	01/31/2000 15:23	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	01/31/2000 15:23	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	01/31/2000 15:23	
Benzo(g,h,i)perylene	ND	2.0	ug/L	01/31/2000 15:23	
Benzoic acid	ND	10	ug/L	01/31/2000 15:23	
<b>Surrogate(s)</b>					
Nitrobenzene-d5	82.0	35-114	%	01/31/2000 15:23	
2-Fluorobiphenyl	89.6	43-116	%	01/31/2000 15:23	
p-Terphenyl-d14	82.4	33-141	%	01/31/2000 15:23	
Phenol-d5	30.0	10-110	%	01/31/2000 15:23	
2-Fluorophenol	49.4	25-100	%	01/31/2000 15:23	
2,4,6-Tribromophenol	93.0	10-123	%	01/31/2000 15:23	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-01-0434

To: **North State Environmental**  
Attn: John MurphyTest Method: 8270A  
Prep Method: 3510/8270A**Batch QC Report**

Semi-volatile Organic Compounds

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2000/01/31-01.11	
LCS:	2000/01/31-01.11-002	Extracted:	01/31/2000	Analyzed:	01/31/2000 17:34
LCSD:	2000/01/31-01.11-003	Extracted:	01/31/2000	Analyzed:	01/31/2000 16:50

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Phenol	13.9	16.8	60.0	60.0	23.2	28.0	18.8	12-89	35		
2-Chlorophenol	40.9	47.4	60.0	60.0	68.2	79.0	14.7	23-134	25		
1,4-Dichlorobenzene	21.6	25.4	30.0	30.0	72.0	84.7	16.2	36-97	30		
N-Nitroso-di-n-propylamin	22.7	26.9	30.0	30.0	75.7	89.7	16.9	10-130	34		
1,2,4-Trichlorobenzene	20.8	25.3	30.0	30.0	69.3	84.3	19.5	44-142	35		
4-Chloro-3-methylphenol	47.2	53.4	60.0	60.0	78.7	89.0	12.3	22-147	31		
Acenaphthene	25.0	29.0	30.0	30.0	83.3	96.7	14.9	56-118	30		
4-Nitrophenol	13.4	15.3	60.0	60.0	22.3	25.5	13.4	1-51	35		
2,4-Dinitrotoluene	23.3	26.4	30.0	30.0	77.7	88.0	12.4	39-139	35		
Pentachlorophenol	41.1	54.2	60.0	60.0	68.5	90.3	27.5	45-125	35		
Pyrene	26.4	29.3	30.0	30.0	88.0	97.7	10.4	52-115	35		
<b>Surrogate(s)</b>											
Nitrobenzene-d5	20.5	22.2	25	25	82.0	88.8		35-114			
2-Fluorobiphenyl	22.7	23.1	25	25	90.8	92.4		43-116			
p-Terphenyl-d14	24.4	23.3	25	25	97.6	93.2		33-141			
Phenol-d5	14.9	15.6	50	50	29.8	31.2		10-110			
2-Fluorophenol	24.0	25.1	50	50	48.0	50.2		25-100			
2,4,6-Tribromophenol	49.1	47.1	50	50	98.2	94.2		10-123			

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096



# North State Environmental Analytical Laboratory

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

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

Chain of Custody / Request for Analysis

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

Feb 10 00 03:36p

Client: <u>North State Ltd</u>	Report to: <u>John M. ...</u>	Phone:	Turnaround Time
Mailing Address:	Billing to:	Fax:	<u>24 HOURS</u>
		PO# / Billing Reference: <u>00-0119</u>	Date: <u>02-26-00</u>
			Sampler:

Project / Site Address: <u>00-0119</u>					Analysis Requested								Comments / Hazards
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time									
<u>77777777</u>	<u>U.S.D</u>	<u>6.1.200</u>	<u>-</u>	<u>02/26/00</u>	<u>X</u>								

Relinquished by:	Date:	Time:	Received by:	Lab Comments
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	

SUB TO CIRCULAR

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APPENDIX D  
PURGING AND SAMPLING  
DOCUMENTATION  
GROUNDWATER MONITORING

FOR

5930 College Avenue  
Oakland, California  
STID # 514

Job No. 7335  
January 18, 2000

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GOLDEN GATE TANK REMOVAL



## GROUNDWATER WELL MONITORING FIELD DATA SHEET

Project Number 7335 Site Name 3030 Colby Date 1/26/10  
 Well Number MWT Sampler VC

Notes, including field conditions, persons on site, methods used, weather \_\_\_\_\_  
 \_\_\_\_\_  
see MWT  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Depth 15 ft. time of sample 1230 Depth to water 8.26 ft  
 Well Diameter 2 sheen or free product None

Volume Height of water	Diameter		Volume	Number of well volumes	total gallons to purge
	2 inch	4 inch			
Column <u>7</u> ft.	<u>(0.16)</u>	0.65	<u>1.1</u> gals.	<u>5</u>	<u>5.5</u> gal

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

TIME	VOLUME PURGED	pH	CONDUCTIVITY	TEMP	NOTES
_____	_____ gals	<u>7.0</u>	<u>10.87</u>	<u>10.1</u>	_____
_____	_____ gals	<u>7.1</u>	<u>10.84</u>	<u>10.8</u>	_____
_____	_____ gals	<u>7.1</u>	<u>10.86</u>	<u>10.1</u>	_____
_____	_____ gals	_____	_____	_____	_____
_____	_____ gals	_____	_____	_____	_____
_____	_____ gals	_____	_____	_____	_____
_____	_____ gals	_____	_____	_____	_____

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



## GROUNDWATER WELL MONITORING FIELD DATA SHEET

Project Number MW3  
Well Number 7335

Site Name 3230 College  
Sampler Carney

Date 1/26/10

Notes, including field conditions, persons on site, methods used, weather \_\_\_\_\_

see MW2

Well Depth 15 ft.      time of sample 1330      Depth to water 5.40 ft.  
Well Diameter 2      sheen or free product none

Volume	Diameter	Volume	Number of well volumes	total gallons to purge
Height of water	2 inch    4 inch			
Column <u>10</u> ft.	<u>(0.16)</u> 0.65	<u>1.6</u> gals.	<u>5</u>	<u>8.0</u> gal

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

TIME	VOLUME PURGED	pH	CONDUCTIVITY	TEMP	NOTES
_____	<u>2</u> gals	<u>7.3</u>	<u>10.47</u>	<u>70.6</u>	_____
_____	<u>4</u> gals	<u>7.2</u>	<u>10.40</u>	<u>70.4</u>	_____
_____	<u>6</u> gals	<u>7.0</u>	<u>10.48</u>	<u>70.4</u>	_____
_____	<u>8</u> gals	<u>7.0</u>	<u>10.45</u>	_____	_____
_____	_____ gals	_____	_____	_____	_____
_____	_____ gals	_____	_____	_____	_____
_____	_____ gals	_____	_____	_____	_____
_____	_____ gals	_____	_____	_____	_____

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



**GROUNDWATER WELL MONITORING  
FIELD DATA SHEET**

*(in garage)*

Project Number MW2 Site Name 5530 College Date 1/26/0  
 Well Number 7333 Sampler Carver

Notes, including field conditions, persons on site, methods used, weather Clear  
dry hydrac electronic water  
meter, disposable  
barrel

Well Depth 15 ft. time of sample 1130 Depth to water 7.85 ft  
 Well Diameter 2 sheen or free product None

Volume Height of water	Diameter 2 inch	4 inch	Volume	Number of well volumes	total gallons to purge
<u>8 ft.</u>	<u>(0.16)</u>	<u>0.65</u>	<u>1.2 gals.</u>	<u>5</u>	<u>6 gal</u>

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

TIME	VOLUME PURGED	pH	CONDUCTIVITY	TEMP	NOTES
	<u>2 gals</u>	<u>7.1</u>	<u>11.63</u>	<u>70.4</u>	
	<u>4 gals</u>	<u>7.0</u>	<u>11.60</u>	<u>70.4</u>	
	<u>6 gals</u>	<u>7.0</u>	<u>11.6</u>	<u>70.3</u>	
	gals				
	gals				
	gals				
	gals				
	gals				

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