EAST BAY
MUNICIPAL UTILITY DISTRICT

June 12, 2009

Paresh C. Khatri
Alameda County Health Care Services Agency
1131 Harbor Way Parkway, Suite 250
Alameda, California 94502

Subject: Site Investigation Report, Fuel Leak Case RO0002735,
EBMUD South Area Service Center
589 East Lewelling Boulevard
San Lorenzo, California

Dear Paresh Khatri;

Attached is our Site Investigation Report for the South Area Service Center Located at 589 East Lewelling Boulevard in San Lorenzo. This report addresses all of the concerns that you expressed in your letter dated March 16, 2009.

This report documents that none of the target analytes were present in groundwater or soil samples collected at the site. The report also summarizes previous remediation activities and findings that are consistent with these results.

Please review our technical report and consider our request for No Further Action Required at this site.

I declare, under penalty of perjury, that the information and recommendations contained in the attached report are true and correct to the best of my knowledge.

Sincerely,

JOHN H. SCHROETER
Environmental Compliance Manager
East Bay Municipal Utility District

JHS:jw

Attachments

ALISTO ENGINEERING GROUP

June 4, 2009

Mr. John Walter
East Bay Municipal Utility District
375 11th Street; M.S. 704
Oakland, California 94607

10-654-42

Subject: Site Investigation Report
EBMUD South Area Service Center
589 East Lewelling Boulevard
San Lorenzo, California

Dear Mr. Walter:

Alisto Engineering Group is pleased to submit this site investigation report for the above-referenced site.

Please call if you have questions or comments.

Sincerely,

ALISTO ENGINEERING GROUP

Chris Reinheimer
Senior Project Manager

Enclosure

2737 N. MAIN ST., SUITE 100, WALNUT CREEK, CA 94597 · (925) 279-5000 · FAX (925) 279-5001
CALIFORNIA CONTRACTOR LICENSE NO. A-652544

SITE INVESTIGATION REPORT

East Bay Municipal Utility District
South Area Service Center
589 East Lewelling Boulevard
San Lorenzo, California
Alameda County Fuel Leak Case No. RO0002735

Project No. 10-654-42

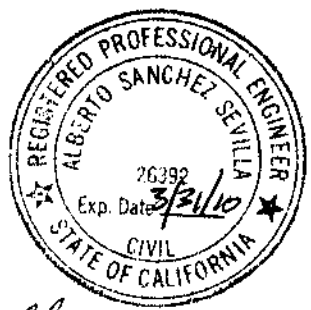
Prepared for:

Mr. John Walter
East Bay Municipal Utility District
375 11th Street; M.S. 704
Oakland, California 94607

Prepared by:

Alisto Engineering Group
2737 N. Main Street, Suite 100
Walnut Creek, California

June 5, 2009



Chris Reinheimer
Senior Project Manager

Al Sevilla, P.E.
Principal

TABLE OF CONTENTS

SITE INVESTIGATION REPORT

East Bay Municipal Utility District
South Area Service Center
589 East Lewelling Boulevard
San Lorenzo, California
Alameda County Fuel Leak Case No. RO0002735

Alisto Project No. 10-654-42

1.0 INTRODUCTION

This report presents the procedures, results and findings of the site investigation performed at the East Bay Municipal Utility District (EBMUD) South Area Service Center at 589 East Lewelling Boulevard, San Lorenzo, California. The site investigation was performed in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA) as set forth in a letter dated March 16, 2009. A site vicinity map is shown on Figure 1.

In August 1990, Minter & Fahy Construction Company removed two underground storage tanks from the site: a 2,000 gallon for unleaded gasoline and a 2,050 gallon for diesel fuel storage. Information on the ACDEH tank removal inspection form indicates that both tanks were in good condition and no holes were observed in either tank. The inspection form also noted that there was no visible staining or odor within the gasoline tank excavation. Some soil staining was noted near the fill end of the diesel tank excavation. Soil samples were collected at both ends of the tanks from the bottom of each excavation. Analytical results for the soil samples were all below the laboratory reporting limits for total petroleum hydrocarbons as diesel (TPH-D), total petroleum hydrocarbons as motor oil (TPH-MO), total petroleum hydrocarbons as gasoline (TPH-G), and benzene. Only toluene was detected in three of the four samples with the highest concentration of 0.1 milligrams/kilogram (mg/kg) detected in the sample collected from the south end of the gasoline tank excavation. Based on the analytical results obtained during tank excavation activities, ACDEH requested additional investigation to evaluate the extent of contamination.

In October 1990, additional soil was removed from the diesel tank excavation and soil samples were collected from the sidewalls and excavation bottom of both tank pits. The samples were analyzed for volatile organic compounds, none of which was detected above the laboratory reporting limits in any of the samples.

During upgrading of the secondary containment systems under the two fuel dispensers (one diesel and one gasoline) at the EBMUD South Area Service Center in May 2004, soil samples were collected to comply with current regulations and in accordance with ACHCSA guidelines and requirements. An ACHSA representative was present to observe the upgrading and soil sampling. On May 5, 2004 soil samples were collected at approximately 3 feet below ground surface (bgs) and 2 feet bgs beneath the diesel dispenser and gasoline dispenser. The soil samples were analyzed for TPH-D, TPH-MO, TPH-G, benzene, toluene, ethyl benzene, and xylenes, (BTEX), volatile organic compounds (VOCs), and lead.

As described in the report documenting the work and submitted by EBMUD to the ACHCSA, (Gettler-Ryan Inc., 2004), TPH-D concentrations detected in the samples ranged from 11 mg/kg in Sample L112151-2 at 2 feet bgs beneath the gasoline dispenser to 1,400 mg/kg in Sample L112151-1 at 3 feet bgs beneath the diesel dispenser. No TPH-G, TPH-MO, and BTEX constituents were detected above the reporting limits in any of the samples. The concentrations of lead detected were below the Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for industrial sites. Based on the analytical results, additional soil was excavated to a depth of 5.5 feet beneath the diesel dispenser. A confirmation sample collected beneath the diesel dispenser contained 3.5 mg/kg of TPH-D. Historical analytical results for the soil samples are summarized in Table 1 and Appendix A.

2.0 PURPOSE AND SCOPE OF WORK

The purpose of the site investigation was to address the concerns of the ACHCSA in a letter dated December 5, 2008; and determine if groundwater beneath the site has been impacted by TPH-D and napthalene. The scope of work as approved by the ACHCSA was conducted in accordance with the guidelines and requirements of the RWQCB, San Francisco Bay Region and the ACHCSA and included the following tasks:

- Obtained drilling permits from Alameda County Public Works Agency for the drilling of soil borings.
- Drilled two soil borings using direct push technology to a total depth of 24 feet on EBMUD property and collected soil and grab groundwater samples for analysis.
- Prepare a report presenting the results and findings of the site investigation.

3.0 FIELD PROCEDURES

The field procedures used during drilling of soil borings and collection of soil and grab groundwater samples are described in the following sections.

3.1 Drilling of Soil Borings

To assess the potential vertical and lateral extent of impact from petroleum hydrocarbons onsite, two soil borings were drilled using direct push technique (Geoprobe) at locations shown on Figure 2. Drilling permits were obtained from the ACPWA, copies of which are included in Appendix B. The methods and procedures used during field activities are described below.

On April 17, 2009, two borings were hand-augured to five feet and then drilled to the maximum depth of 24 feet on site using coring/hydropunch methods. The boreholes were drilled by Enprob of Oroville, California, a C-57 licensed driller, using a Geoprobe direct-push truck-mounted drilling rig. Soil samples were collected using a 2-1/4-inch-diameter continuous sampling tool.

3.2 Soil and Grab Groundwater Sampling

Soil samples were collected from the vadose zone and other discrete depths using a sampler lined with clean Lexan sleeves. The soil cores were described in the field by a qualified geologist as to sediment type, qualitative moisture content, density and observed for the presence of hydrocarbon staining. Soil samples were also screened in the field using and organic vapor meter.

After the soil samples were collected and groundwater was encountered the Geoprobe tool was retrieved from the borehole and clean factory slotted temporary casing was pushed to the desired depth by the drill rig. The borehole was then purged until an adequate volume of sample was collected in clean laboratory-supplied containers. After collection of sufficient sample volume for analysis of COC, the borings were backfilled from the bottom to the surface using tremied neat cement grout and the surface repaired to match existing.

Boring logs are included in Appendix C and procedures for collection of soil and grab groundwater samples are described in Appendix D.

4.0 ANALYTICAL METHODS

Soil and groundwater samples collected during the investigation were submitted to the EBMUD Laboratory Services Division (California Environmental Laboratory Accreditation Program Certificate No 1060) for analysis of the following constituents using standard test methods of U.S. EPA and the California Department of Health Services:

- Total petroleum hydrocarbons as Diesel (TPH-D)
- Total petroleum hydrocarbons as Motor Oil (TPH-MO)
- Naphthalene using EPA Method 8270C

The laboratory results for the soil and grab groundwater samples are summarized in Tables 1 and 2. The field procedures for chain of custody documentation, the laboratory reports, and chain of custody records are included in Appendix E.

5.0 SITE GEOLOGY AND HYDROGEOLOGY

Shallow sediments at the site consist mainly of silty clays, silts and silty sands with some gravel lenses. Sandy silt was observed during drilling of the two borings from the surface to approximately 17 feet bgs. A distinct silty sand/silty gravel lens was encountered in the borings at a depth of 17 feet extending to 22 feet bgs. Dark brown silty clay was observed in both borings at 22 feet bgs and extended to the total depth of investigation at 24 feet. The depth to first saturated sediments encountered in the borings was approximately 18 to 19 feet.

The site is within the East Bay Plain Sub Basin, which is bounded to the west by San Francisco Bay and in the northern portion of the San Lorenzo groundwater sub area. The East Bay Plain

is an elongated, northwest trending flat alluvial plain encompassing approximately 115 square miles. As defined by DWR (1980), the East Bay Plain is bounded on the West by San Francisco Bay, by San Pablo Bay to the north, and the Hayward Fault to the east.

San Lorenzo and San Leandro Sub-Areas are very similar in hydrogeologic characteristics, but can be separated based on the surface trace of the junction between the San Leandro and San Lorenzo alluvial fans. The sub-areas are primarily filled with alluvial fans, but unlike the sub-areas to the north, the Yerba Buena Mud extends west into the San Lorenzo and San Leandro Sub-Areas. It has been proposed that a clay layer forms an extensive east-west aquitard across the basin. Historically there were municipal supply wells in these sub-areas that produced from the upper Alameda gravels. The City of Hayward has emergency supply wells in the San Lorenzo Sub-Area. The San Lorenzo Creek is the nearest surface body of water at approximately 150 feet south of the site. The creek lies within an approximately 20-foot deep concrete channel.

6.0 DISCUSSION OF RESULTS

The results of the soil and groundwater sampling and analysis performed during the April 2009 site investigation by Alisto are discussed in the following sections.

In April 2009, two soil borings were drilled adjacent to the fuel dispensers and existing USTs. A total of 2 grab water samples and 6 soil samples were collected and submitted for laboratory analysis. Soil samples collected from depths of 6, 11, and 17 feet were submitted for laboratory analysis for the constituents of concern as directed by the ACHCSA. Grab water samples were collected from the two borings from first saturated sediment, encountered at approximately 18 feet bgs. Laboratory analysis of the six soil samples and two water samples did not detect TPH-D, TPH-MO or naphthalene above the laboratory detection limits.

Soil types encountered in the borings consisted predominantly of sandy silts to sandy clay, with a distinct silty sand/silty gravel unit from 17 to 22 feet bgs. A silty clay layer was encountered at depths of between 22 and 24 feet. Saturated soil conditions were typically encountered in the borings between approximately 18 and 19 feet bgs.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations of the site investigation based on the results of the field activities and laboratory analysis of samples are discussed below:

- Groundwater samples were collected in the shallow water bearing unit encountered between 17 and 22 feet bgs in the borings drilled immediately west and northwest of the former UST locations and existing pump island. Boring logs from previous investigations and soils encountered during the April 2009 investigation indicate the presence of a laterally continuous silty clay unit beneath the site from approximately 19 to 51 feet bgs. The thickness of the silty clay unit would limit the potential for any vertical migration of petroleum hydrocarbons beneath the site. The San Lorenzo Creek, approximately 150 feet west of the site, is contained in a concrete channel.

- VOCs were not detected above the laboratory reporting limits in all of the soil samples analyzed during the UST over excavation sampling and dispenser upgrades. Benzene was not detected above the laboratory detection limits in any of the soil samples, including those collected during the August 1990 UST removal. Analysis of soil and groundwater samples collected from both borings in April 2009 did not detect any constituents of concern above the laboratory reporting limit.

- The bulk of petroleum hydrocarbon mass in the soil had been effectively removed during previous over-excavation and remedial activities. Therefore, no further soil investigation or remedial excavation is warranted or recommended at this time.

- Based on the results of the grab groundwater sampling and analysis, it does not appear that the limited petroleum release from the UST system has impacted the groundwater at the site to warrant further investigation or assessment. As such no additional groundwater assessment, sampling or monitoring is recommended.

- Since no significant mass of petroleum hydrocarbon is present in soil or groundwater beneath the site, a well search and preferential pathway study are not warranted and the site should be approved for regulatory closure and designated "No Further Action Required" status.

REFERENCES

East Bay Municipal Utility District, 1990. EBMUD South Area Service Center – Final Tank Removal Report. September 21.

East Bay Municipal Utility District, 1990. Soil Contamination Investigation at 589 East Lewelling Boulevard, San Lorenzo, CA 94580. December 12.

Gettler-Ryan, 2004. Soil Sampling Report, EBMUD South Area Service Center, 375(sic) East Lewelling Boulevard, San Lorenzo. June 15.

Alisto Engineering Group, 2009. Site Investigation Workplan, EBMUD South Area Service Center, 589 East Lewelling Boulevard, San Lorenzo, California. February 6.

TABLES

FIGURES

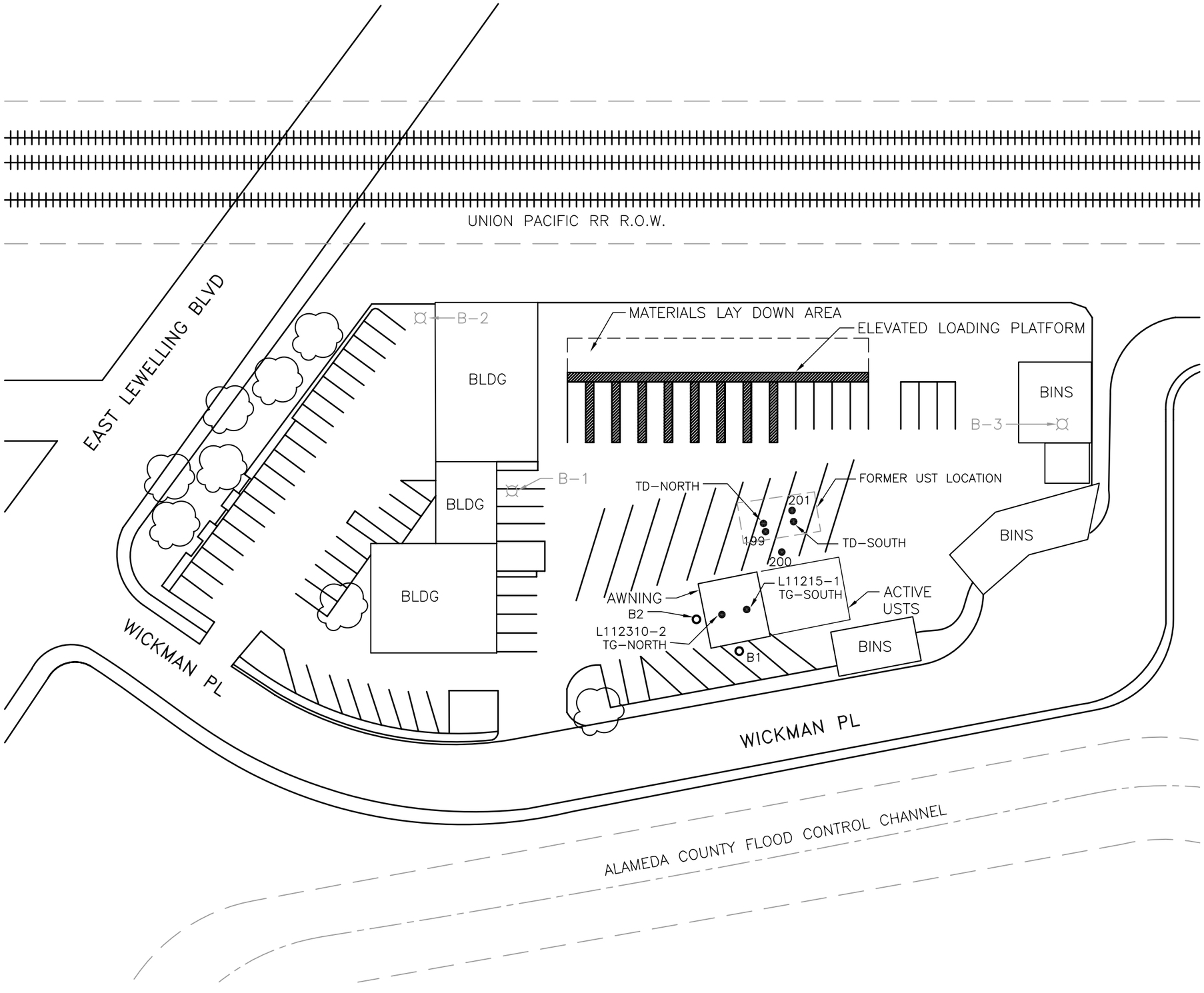
FIGURE 1

SITE VICINITY MAP

EBMUD South Area Service Center

589 E. Lewelling Blvd.
San Lorenzo, California

Alisto Project No.
10-654-42



0 50 100

SCALE IN FEET

LEGEND

- GEOTECHNICAL BORING (1988)
- 201 SOIL SAMPLE & ID NO.
- B1 SOIL BORING (2009)
- TREE
- APPROXIMATE EASEMENT BOUNDARY

FIGURE 2

SITE PLAN

EAST BAY MUNICIPAL UTILITY DISTRICT
SOUTH AREA SERVICE CENTER
589 E. LEWELLING BLVD.
SAN LORENZO, CA

PROJECT NO. 10-654-42

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

APPENDIX A

Historical Analytical Data

GTEL
ENVIRONMENTAL
LABORATORIES, INC.
Northwest Region
4080 Pike Lane
Concord, CA 94520
(415) 685-7852
(800) 544-3422 from inside California
(800) 423-7143 from outside California

Client Number: SFB-566-0069.72
Project ID: 589 E. Lewelling
San Lorenzo, CA
Work Order Number: CO-08-660

September 11, 1990

John Fahy
Minter & Fahy Construction
411 N. Buchanan Circle, #2
Pacheco, CA 94553

Enclosed please find the analytical results report prepared by GTEL for samples received on 08/23/90.

GTEL is certified by the California State Department of Health Services to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

A formal quality control/quality assurance program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project was performed in strict adherence to our QA/QC program to ensure sample integrity and to meet quality control criteria.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Emma P. Popek
Laboratory Director

GTEL ENVIRONMENTAL LABORATORIES, INC.

Northwest Region
4080 Pike Lane
Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

09/05/90 rw

WORK ORD#: C008659
CLIENT: John Fahy
Minter & Fahy Construction
411 N. Buchanan Circle, #2
Pacheco, CA 94553
PROJECT#: SFB-566-0089.72
LOCATION: 589 E. Lewelling, San Lorenzo, CA

SAMPLED: 08/23/90 BY: K. Jay
RECEIVED: 08/23/90
ANALYZED: 08/28/90 BY: F. Kha

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	01 TD-SOUTH	02 TD-NORTH	03 S-DIESEL		
Total Petroleum Hydrocarbons as Diesel	10		<10	<10	<10		

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 8015

Emma P. Popek /RMB
EMMA P. POPEK, Laboratory Director

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Northwest Region
4080 Pike Lane
Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

WORK ORD#:C009218
CLIENT: John Fahy
Minter & Fahy Construction
411 N. Buchanan Circle, #2
Pacheco, CA 94553
PROJECT#: SFB-566-0089.72
LOCATION: 589 E. Lewelling, San Lorenzo

SAMPLED 08/23/90 COC#: .
RECEIVED: 08/23/90
ANALYZED: 08/31/90 BY: AKB

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	01 SOIL GAS	02 TANK GAS	03 TANK GAS		
Total Petroleum Hydrocarbons as Gasoline	1		2	<1	<1		

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 3550/8015

Emma P. Popek

Client Number: SFB-566-0089.72
Project ID: 589 E. Lewelling
San Lorenzo, CA
Work Order Number: C0-08-660

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics in Soil

EPA Methods 5030 and 8020[a]

GTEL Sample Number		01	02	03	04
Client Identification		TD-South	TD-North	Soil-Gas Tank	Soil-Diesel Tank
Date Sampled		08/23/90	08/23/90	08/23/90	08/23/90
Date Extracted		08/31/90	08/31/90	08/31/90	08/31/90
Date Analyzed		08/31/90	08/31/90	08/31/90	08/31/90
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	0.05	<0.005	<0.005
Ethylbenzene	0.005	<0.005	<0.005	<0.005	<0.005
Xylene, total	0.015	<0.015	<0.015	<0.015	<0.015
BTEX, total	--	--	0.05	--	--
Detection Limit Multiplier		1	1	1	1

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: SFB-566-0089.72
Project ID: 589 E. Lewelling
San Lorenzo, CA
Work Order Number: C0-08-660

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics in Soil

EPA Methods 5030 and 8020[a]

GTEL Sample Number		05	06		
Client Identification		Tank-Gas-South	Tank-Gas-North		
Date Sampled		08/23/90	08/23/90		
Date Extracted		08/31/90	08/31/90		
Date Analyzed		08/31/90	09/07/90		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Benzene	0.005	<0.005	<0.005		
Toluene	0.005	0.1	0.015		
Ethylbenzene	0.005	<0.005	<0.005		
Xylene, total	0.015	<0.015	0.019		
BTEX, total	–	0.1	0.034		
Detection Limit Multiplier		1	1		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986.

SOIL SAMPLES TAKEN FOR MINTER + FAHY CONST. - 8/23/90

LEWELLING BLVD.

WICKMAN CT.

BUILDING (UNDER CONSTRUCTION)

EBMUD
589 E. LEWELLING BLVD.
SAN LORENZO, CA

N

SAMPLE LOCATION
SOIL FROM GASOLINE
TANK EXCATION
2 TPH

TANK - GASOLINE - NORTH
SAMPLE LOCATION
12' BELOW GRADE
0.015 TOL
0.019 XYL

SAMPLE LOCATION
TANK - GASOLINE - SOUTH
12' BELOW GRADE
0.1 TOL

SAMPLE LOCATION
SOIL FROM
DIESEL TANK
EXCAVATION

TANK - DIESEL - NORTH
SAMPLE LOCATION
13' BELOW GRADE
0.05 TOL

TANK - DIESEL - SOUTH
SAMPLE LOCATION
13' BELOW GRADE

CHAIN OF CUSTODY RECORD

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
EBMUD
589 E. LEWELLING
SAN LORENZO, CA

ANALYSIS REQUESTED: TOTAL PETROLEUM HYDROCARBONS (Diesel) | BTX+E | VOC-EPA 8010 | TOTAL OIL & GREASE | TETRAETHYL LEAD | TPH-GASOLINE

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS (Diesel)	BTX+E	VOC-EPA 8010	TOTAL OIL & GREASE	TETRAETHYL LEAD	TPH-GASOLINE	REMARKS
TANK-DIESEL-South End	8-23-90	10:50A	X		UNDER DIESEL TANK-SOUTH END	X	X					
TANK-DIESEL-North End	8-23-90	11:05A	X		UNDER DIESEL TANK-NORTH END	X	X					
Soil Gas Tank	8/23/90	11:25A	X		SOIL PILE FROM GAS TANK		X				X	
Soil-Diesel Tank	8/23/90	12:00	X		SOIL PILE FROM DIESEL TANK	X	X					
TANK-Gas-South End	8-23-90	12:25	X		UNDER GASOLINE TANK-SOUTH END		X				X	
TANK-Gas-North End	8-23-90	12:30	X		UNDER GASOLINE TANK-NORTH END		X				X	

NORMAL TAT

RELINQUISHED BY: (Signature) Keith Jay	DATE 8-23-90 TIME 16:08	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature) Karla S. Gable	DATE 8/23 TIME 4:15

MINTER + FAHY CONSTRUCTION

Account No.: -
Lab Number : 90 10 12 195
Sample Type: Grab

Station Name: MISC South Yard \
Side Sewer :

ACROLEIN	<	.050	mg/KgW
ACRYLONITRILE	<	.050	mg/KgW
BENZENE	<	.010	mg/KgW
BROMODICHLOROMETHANE-GC/MS	<	.010	mg/KgW
BROMOFROM-GC/MS	<	.020	mg/KgW
BROMOETHANE	<	.030	mg/KgW
CARBON TETRACHLORIDE	<	.010	mg/KgW
CHLOROBENZENE	<	.010	mg/KgW
CHLOROETHANE	<	.020	mg/KgW
2-CHLOROETHYLVINYL ETHER	<	.050	mg/KgW
CHLOROFORM	<	.010	mg/KgW
CHLOROMETHANE	<	.020	mg/KgW
DIBROMOCHLOROMETHANE	<	.010	mg/KgW
1,2-DICHOLORBENZENE	<	.010	mg/KgW
1,3-DICHLOROBENZENE	<	.010	mg/KgW
1,4-DICHLOROBENZENE	<	.010	mg/KgW
1,1-DICHLOROETHANE	<	.010	mg/KgW
1,2-DICHLOROETHENE	<	.010	mg/KgW
1,1-DICHLOROETHENE	<	.010	mg/KgW
TRANS-1,2-DICHLOROETHENE	<	.010	mg/KgW
1,2-DICHLOROPROPANE	<	.010	mg/KgW
CIS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
TRANS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL BENZENE	<	.010	mg/KgW
METHYLENE CHLORIDE	<	.010	mg/KgW
1,1,2,2-TETRACHLOROETHANE	<	.010	mg/KgW
TETRACHLOROETHENE	<	.010	mg/KgW
TOLUENE	<	.010	mg/KgW
1,1,1-TRICHLOROETHANE	<	.010	mg/KgW
1,1,2-TRICHLOROETHANE	<	.010	mg/KgW
TRICHLOROETHENE	<	.010	mg/KgW
VINYL CHLORIDE	<	.020	mg/KgW
ACETONE	<	.050	mg/KgW
DIBROMOCHLOROPROPANE	<	.030	mg/KgW
ETHYLENE DIBROMIDE	<	.050	mg/KgW
METHYLETHYL KETONE	<	.100	mg/KgW
METHYL ISOBUTYL KETONE	<	.020	mg/KgW
STYRENE	<	.010	mg/KgW
TETRAHYDROFURAN	<	.040	mg/KgW
FREON 113	<	.010	mg/KgW
SATURATED HYDROCARBONS	<	.200	mg/KgW
UNSATURATED HYDROCARBONS	<	.200	mg/KgW
AROMATIC HYDROCARBONS	<	.200	mg/KgW
XYLENES	<	.010	mg/KgW
1,2,4-TRICHLOROBENZENE	<	.010	mg/KgW
FLUOROTRICHLOROMETHANE	<	.050	mg/KgW
DICHLORODIFLUOROMETHANE	<	.050	mg/KgW
M-CHLOROTOLUENE	<	.010	mg/KgW
DIBROMOMETHANE	<	.010	mg/KgW
1,3-DICHLOROPROPANE	<	.010	mg/KgW
BROMOCHLOROMETHANE	<	.010	mg/KgW
1,2,3-TRICHLOROPROPANE	<	.010	mg/KgW

Account No.: -
Lab Number : 90 10 12 195
Sample Type: Grab

Station Name: MISC South Yard 1
Side Sewer :

1,2,3-TRICHLOROBENZENE	<	.010	mg/KgW
N-PROPYLBENZENE	<	.010	mg/KgW
1,1,1,2-TETRACHLOROETHANE	<	.010	mg/KgW
PENTACHLOROETHANE	<	.010	mg/KgW
BIS (2-CHLOROISOPROPYL) ETHER	<	.020	mg/KgW
SEC-DICHLOROPROPANE	<	.010	mg/KgW
1,2,4-TRIMETHYLBENZENE	<	.010	mg/KgW
N-BUTYLBENZENE	<	.010	mg/KgW
NAPHTHALENE	<	.010	mg/KgW
HEXACHLOROBUTADIENE	<	.020	mg/KgW
P-CHLOROTOLUENE	<	.010	mg/KgW
1,3,5-TRIMETHYLBENZENE	<	.010	mg/KgW
P-ISOPROPYLTOLUENE	<	.010	mg/KgW
1,1-DICHLOROPROPANE	<	.010	mg/KgW
ISOPROPYLBENZENE	<	.010	mg/KgW
TERT-BUTYLBENZENE	<	.010	mg/KgW
SEC-BUTYLBENZENE	<	.010	mg/KgW
BROMOBENZENE	<	.010	mg/KgW
CIS-1,2-DICHLOROETHENE	<	.010	MG/KGW
O-CHOLOROTOLUENE	<	.010	MG/KGW
CARBON DISULFIDE	<	.010	mg/KgW
1,1-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL ACETATE	<	.010	mg/KG
2-HEXANONE	<	.010	MG/KGW
VINYL ACETATE	<	.010	MG/KGW
1,3-BUTADIENE	<	.010	MG/KGW
1,3-BUTADIENE	<	10.000	MG/KGW

Account No.: -
Lab Number : 90 10 12 196
Sample Type: Grab

Station Name: MISC South Yard 2
Side Sewer :

ACROLEIN	<	.050	mg/KgW
ACRYLONITRILE	<	.050	mg/KgW
BENZENE	<	.010	mg/KgW
BROMODICHLOROMETHANE-GC/MS	<	.010	mg/KgW
BROMOFROM-GC/MS	<	.020	mg/KgW
BROMOETHANE	<	.030	mg/KgW
CARBON TETRACHLORIDE	<	.010	mg/KgW
CHLOROBENZENE	<	.010	mg/KgW
CHLOROETHANE	<	.020	mg/KgW
2-CHLOROETHYLVINYL ETHER	<	.050	mg/KgW
CHLOROFORM	<	.010	mg/KgW
CHLOROMETHANE	<	.020	mg/KgW
DIBROMOCHLOROMETHANE	<	.010	mg/KgW
1,2-DICHOLORBENZENE	<	.010	mg/KgW
1,3-DICHLOROBENZENE	<	.010	mg/KgW
1,4-DICHLOROBENZENE	<	.010	mg/KgW
1,1-DICHLOROETHANE	<	.010	mg/KgW
1,2-DICHLOROETHENE	<	.010	mg/KgW
1,1-DICHLOROETHENE	<	.010	mg/KgW
TRANS-1,2-DICHLOROETHENE	<	.010	mg/KgW
1,2-DICHLOROPROPANE	<	.010	mg/KgW
CIS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
TRANS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL BENZENE	<	.010	mg/KgW
METHYLENE CHLORIDE	<	.010	mg/KgW
1,1,2,2-TETRACHLOROETHANE	<	.010	mg/KgW
TETRACHLOROETHENE	<	.010	mg/KgW
TOLUENE	<	.010	mg/KgW
1,1,1-TRICHLOROETHANE	<	.010	mg/KgW
1,1,2-TRICHLOROETHANE	<	.010	mg/KgW
TRICHLOROETHENE	<	.010	mg/KgW
VINYL CHLORIDE	<	.020	mg/KgW
ACETONE	<	.050	mg/KgW
DIBROMOCHLOROPROPANE	<	.030	mg/KgW
ETHYLENE DIBROMIDE	<	.050	mg/KgW
METHYLETHYL KETONE	<	.100	mg/KgW
METHYL ISOBUTYL KETONE	<	.020	mg/KgW
STYRENE	<	.010	mg/KgW
TETRAHYDROFURAN	<	.040	mg/KgW
FREON 113	<	.010	mg/KgW
SATURATED HYDROCARBONS	<	.200	mg/KgW
UNSATURATED HYDROCARBONS	<	.200	mg/KgW
AROMATIC HYDROCARBONS	<	.200	mg/KgW
XYLENES	<	.010	mg/KgW
1,2,4-TRICHLOROBENZENE	<	.010	mg/KgW
FLUOROTRICHLOROMETHANE	<	.050	mg/KgW
DICHLORODIFLUOROMETHANE	<	.050	mg/KgW
M-CHLOROTOLUENE	<	.010	mg/KgW
DIBROMOMETHANE	<	.010	mg/KgW
1,3-DICHLOROPROPANE	<	.010	mg/KgW
BROMOCHLOROMETHANE	<	.010	mg/KgW
1,2,3-TRICHLOROPROPANE	<	.010	mg/KgW

Account No.: -
Lab Number : 90 10 12 196
Sample Type: Grab

Station Name: MISC South Yard 2
Side Sewer :

1,2,3-TRICHLOROBENZENE	<	.010	mg/KgW
N-PROPYLBENZENE	<	.010	mg/KgW
1,1,1,2-TETRACHLOROETHANE	<	.010	mg/KgW
PENTACHLOROETHANE	<	.010	mg/KgW
BIS (2-CHLOROISOPROPYL) ETHER	<	.020	mg/KgW
SEC-DICHLOROPROPANE	<	.010	mg/KgW
1,2,4-TRIMETHYLBENZENE	<	.010	mg/KgW
N-BUTYLBENZENE	<	.010	mg/KgW
NAPHTHALENE	<	.010	mg/KgW
HEXACHLOROBUTADIENE	<	.020	mg/KgW
P-CHLOROTOLUENE	<	.010	mg/KgW
1,3,5-TRIMETHYLBENZENE	<	.010	mg/KgW
P-ISOPROPYLTOLUENE	<	.010	mg/KgW
1,1-DICHLOROPROPANE	<	.010	mg/KgW
ISOPROPYLBENZENE	<	.010	mg/KgW
TERT-BUTYLBENZENE	<	.010	mg/KgW
SEC-BUTYLBENZENE	<	.010	mg/KgW
BROMOBENZENE	<	.010	mg/KgW
CIS-1,2-DICHLOROETHENE	<	.010	MG/KGW
O-CHOLOROTOLUENE	<	.010	MG/KGW
CARBON DISULFIDE	<	.010	mg/KgW
1,1-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL ACETATE	<	.010	mg/KG
2-HEXANONE	<	.010	MG/KGW
VINYL ACETATE	<	.010	MG/KGW
1,3-BUTADIENE	<	.010	MG/KGW
1,3-BUTADIENE	<	10.000	MG/KGW

Account No.: -
Lab Number : 90 10 12 197
Sample Type: Grab

Station Name: MISC South Yard 3
Side Sewer :

ACROLEIN	<	.050	mg/KgW
ACRYLONITRILE	<	.050	mg/KgW
BENZENE	<	.010	mg/KgW
BROMODICHLOROMETHANE-GC/MS	<	.010	mg/KgW
BROMOFROM-GC/MS	<	.020	mg/KgW
BROMOETHANE	<	.030	mg/KgW
CARBON TETRACHLORIDE	<	.010	mg/KgW
CHLOROBENZENE	<	.010	mg/KgW
CHLOROETHANE	<	.020	mg/KgW
2-CHLOROETHYLVINYL ETHER	<	.050	mg/KgW
CHLOROFORM	<	.010	mg/KgW
CHLOROMETHANE	<	.020	mg/KgW
DIBROMOCHLOROMETHANE	<	.010	mg/KgW
1,2-DICHOLORBENZENE	<	.010	mg/KgW
1,3-DICHLOROBENZENE	<	.010	mg/KgW
1,4-DICHLOROBENZENE	<	.010	mg/KgW
1,1-DICHLOROETHANE	<	.010	mg/KgW
1,2-DICHLOROETHENE	<	.010	mg/KgW
1,1-DICHLOROETHENE	<	.010	mg/KgW
TRANS-1,2-DICHLOROETHENE	<	.010	mg/KgW
1,2-DICHLOROPROPANE	<	.010	mg/KgW
CIS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
TRANS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL BENZENE	<	.010	mg/KgW
METHYLENE CHLORIDE	<	.010	mg/KgW
1,1,2,2-TETRACHLOROETHANE	<	.010	mg/KgW
TETRACHLOROETHENE	<	.010	mg/KgW
TOLUENE	<	.010	mg/KgW
1,1,1-TRICHLOROETHANE	<	.010	mg/KgW
1,1,2-TRICHLOROETHANE	<	.010	mg/KgW
TRICHLOROETHENE	<	.010	mg/KgW
VINYL CHLORIDE	<	.020	mg/KgW
ACETONE	<	.050	mg/KgW
DIBROMOCHLOROPROPANE	<	.030	mg/KgW
ETHYLENE DIBROMIDE	<	.050	mg/KgW
METHYLETHYL KETONE	<	.100	mg/KgW
METHYL ISOBUTYL KETONE	<	.020	mg/KgW
STYRENE	<	.010	mg/KgW
TETRAHYDROFURAN	<	.040	mg/KgW
FREON 113	<	.010	mg/KgW
SATURATED HYDROCARBONS	<	.200	mg/KgW
UNSATURATED HYDROCARBONS	<	.200	mg/KgW
AROMATIC HYDROCARBONS	<	.200	mg/KgW
XYLENES	<	.010	mg/KgW
1,2,4-TRICHLOROBENZENE	<	.010	mg/KgW
FLUOROTRICHLOROMETHANE	<	.050	mg/KgW
DICHLORODIFLUOROMETHANE	<	.050	mg/KgW
M-CHLOROTOLUENE	<	.010	mg/KgW
DIBROMOMETHANE	<	.010	mg/KgW
1,3-DICHLOROPROPANE	<	.010	mg/KgW
BROMOCHLOROMETHANE	<	.010	mg/KgW
1,2,3-TRICHLOROPROPANE	<	.010	mg/KgW

Account No.: -
Lab Number : 90 10 12 197
Sample Type: Grab

Station Name: MISC South Yard 3
Side Sewer :

1,2,3-TRICHLOROBENZENE	<	.010	mg/KgW
N-PROPYLBENZENE	<	.010	mg/KgW
1,1,1,2-TETRACHLOROETHANE	<	.010	mg/KgW
PENTACHLOROETHANE	<	.010	mg/KgW
BIS (2-CHLOROISOPROPYL) ETHER	<	.020	mg/KgW
SEC-DICHLOROPROPANE	<	.010	mg/KgW
1,2,4-TRIMETHYLBENZENE	<	.010	mg/KgW
N-BUTYLBENZENE	<	.010	mg/KgW
NAPHTHALENE	<	.010	mg/KgW
HEXACHLOROBUTADIENE	<	.020	mg/KgW
P-CHLOROTOLUENE	<	.010	mg/KgW
1,3,5-TRIMETHYLBENZENE	<	.010	mg/KgW
P-ISOPROPYLTOLUENE	<	.010	mg/KgW
1,1-DICHLOROPROPANE	<	.010	mg/KgW
ISOPROPYLBENZENE	<	.010	mg/KgW
TERT-BUTYLBENZENE	<	.010	mg/KgW
SEC-BUTYLBENZENE	<	.010	mg/KgW
BROMOBENZENE	<	.010	mg/KgW
CIS-1,2-DICHLOROETHENE	<	.010	MG/KGW
O-CHOLOROTOLUENE	<	.010	MG/KGW
CARBON DISULFIDE	<	.010	mg/KgW
1,1-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL ACETATE	<	.010	mg/KG
2-HEXANONE	<	.010	MG/KGW
VINYL ACETATE	<	.010	MG/KGW
1,3-BUTADIENE	<	.010	MG/KGW
1,3-BUTADIENE	<	10.000	MG/KGW

Account No.: -
Lab Number : 90 10 12 198
Sample Type: Grab

Station Name: MISC South Yard 4
Side Sewer :

ACROLEIN	<	.050	mg/KgW
ACRYLONITRILE	<	.050	mg/KgW
BENZENE	<	.010	mg/KgW
BROMODICHLOROMETHANE-GC/MS	<	.010	mg/KgW
BROMOFROM-GC/MS	<	.020	mg/KgW
BROMOETHANE	<	.030	mg/KgW
CARBON TETRACHLORIDE	<	.010	mg/KgW
CHLOROBENZENE	<	.010	mg/KgW
CHLOROETHANE	<	.020	mg/KgW
2-CHLOROETHYLVINYL ETHER	<	.050	mg/KgW
CHLOROFORM	<	.010	mg/KgW
CHLOROMETHANE	<	.020	mg/KgW
DIBROMOCHLOROMETHANE	<	.010	mg/KgW
1,2-DICHOLORBENZENE	<	.010	mg/KgW
1,3-DICHLOROBENZENE	<	.010	mg/KgW
1,4-DICHLOROBENZENE	<	.010	mg/KgW
1,1-DICHLOROETHANE	<	.010	mg/KgW
1,2-DICHLOROETHENE	<	.010	mg/KgW
1,1-DICHLOROETHENE	<	.010	mg/KgW
TRANS-1,2-DICHLOROETHENE	<	.010	mg/KgW
1,2-DICHLOROPROPANE	<	.010	mg/KgW
CIS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
TRANS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL BENZENE	<	.010	mg/KgW
METHYLENE CHLORIDE	<	.010	mg/KgW
1,1,2,2-TETRACHLOROETHANE	<	.010	mg/KgW
TETRACHLOROETHENE	<	.010	mg/KgW
TOLUENE	<	.010	mg/KgW
1,1,1-TRICHLOROETHANE	<	.010	mg/KgW
1,1,2-TRICHLOROETHANE	<	.010	mg/KgW
TRICHLOROETHENE	<	.010	mg/KgW
VINYL CHLORIDE	<	.020	mg/KgW
ACETONE	<	.050	mg/KgW
DIBROMOCHLOROPROPANE	<	.030	mg/KgW
ETHYLENE DIBROMIDE	<	.050	mg/KgW
METHYLETHYL KETONE	<	.100	mg/KgW
METHYL ISOBUTYL KETONE	<	.020	mg/KgW
STYRENE	<	.010	mg/KgW
TETRAHYDROFURAN	<	.040	mg/KgW
FREON 113	<	.010	mg/KgW
SATURATED HYDROCARBONS	<	.200	mg/KgW
UNSATURATED HYDROCARBONS	<	.200	mg/KgW
AROMATIC HYDROCARBONS	<	.200	mg/KgW
XYLENES	<	.010	mg/KgW
1,2,4-TRICHLOROBENZENE	<	.010	mg/KgW
FLUOROTRICHLOROMETHANE	<	.050	mg/KgW
DICHLORODIFLUOROMETHANE	<	.050	mg/KgW
M-CHLOROTOLUENE	<	.010	mg/KgW
DIBROMOMETHANE	<	.010	mg/KgW
1,3-DICHLOROPROPANE	<	.010	mg/KgW
BROMOCHLOROMETHANE	<	.010	mg/KgW
1,2,3-TRICHLOROPROPANE	<	.010	mg/KgW

Account No.: -
Lab Number : 90 10 12 198
Sample Type: Grab

Station Name: MISC South Yard 4
Side Sewer :

1,2,3-TRICHLOROBENZENE	<	.010	mg/KgW
N-PROPYLBENZENE	<	.010	mg/KgW
1,1,1,2-TETRACHLOROETHANE	<	.010	mg/KgW
PENTACHLOROETHANE	<	.010	mg/KgW
BIS (2-CHLOROISOPROPYL) ETHER	<	.020	mg/KgW
SEC-DICHLOROPROPANE	<	.010	mg/KgW
1,2,4-TRIMETHYLBENZENE	<	.010	mg/KgW
N-BUTYLBENZENE	<	.010	mg/KgW
NAPHTHALENE	<	.010	mg/KgW
HEXACHLOROBUTADIENE	<	.020	mg/KgW
P-CHLOROTOLUENE	<	.010	mg/KgW
1,3,5-TRIMETHYLBENZENE	<	.010	mg/KgW
P-ISOPROPYLTOLUENE	<	.010	mg/KgW
1,1-DICHLOROPROPANE	<	.010	mg/KgW
ISOPROPYLBENZENE	<	.010	mg/KgW
TERT-BUTYLBENZENE	<	.010	mg/KgW
SEC-BUTYLBENZENE	<	.010	mg/KgW
BROMOBENZENE	<	.010	mg/KgW
CIS-1,2-DICHLOROETHENE	<	.010	MG/KGW
O-CHOLOROTOLUENE	<	.010	MG/KGW
CARBON DISULFIDE	<	.010	mg/KgW
1,1-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL ACETATE	<	.010	mg/KG
2-HEXANONE	<	.010	MG/KGW
VINYL ACETATE	<	.010	MG/KGW
1,3-BUTADIENE	<	.010	MG/KGW
1,3-BUTADIENE	<	10.000	MG/KGW

Account No.: -
Lab Number : 90 10 12 199
Sample Type: Grab

Station Name: MISC South Yard 6
Side Sewer :

ACROLEIN	<	.050	mg/KgW
ACRYLONITRILE	<	.050	mg/KgW
BENZENE	<	.010	mg/KgW
BROMODICHLOROMETHANE-GC/MS	<	.010	mg/KgW
BROMOFROM-GC/MS	<	.020	mg/KgW
BROMOETHANE	<	.030	mg/KgW
CARBON TETRACHLORIDE	<	.010	mg/KgW
CHLOROBENZENE	<	.010	mg/KgW
CHLOROETHANE	<	.020	mg/KgW
2-CHLOROETHYLVINYL ETHER	<	.050	mg/KgW
CHLOROFORM	<	.010	mg/KgW
CHLOROMETHANE	<	.020	mg/KgW
DIBROMOCHLOROMETHANE	<	.010	mg/KgW
1,2-DICHOLORBENZENE	<	.010	mg/KgW
1,3-DICHLOROBENZENE	<	.010	mg/KgW
1,4-DICHLOROBENZENE	<	.010	mg/KgW
1,1-DICHLOROETHANE	<	.010	mg/KgW
1,2-DICHLOROETHENE	<	.010	mg/KgW
1,1-DICHLOROETHENE	<	.010	mg/KgW
TRANS-1,2-DICHLOROETHENE	<	.010	mg/KgW
1,2-DICHLOROPROPANE	<	.010	mg/KgW
CIS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
TRANS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL BENZENE	<	.010	mg/KgW
METHYLENE CHLORIDE	<	.010	mg/KgW
1,1,2,2-TETRACHLOROETHANE	<	.010	mg/KgW
TETRACHLOROETHENE	<	.010	mg/KgW
TOLUENE	<	.010	mg/KgW
1,1,1-TRICHLOROETHANE	<	.010	mg/KgW
1,1,2-TRICHLOROETHANE	<	.010	mg/KgW
TRICHLOROETHENE	<	.010	mg/KgW
VINYL CHLORIDE	<	.020	mg/KgW
ACETONE	<	.050	mg/KgW
DIBROMOCHLOROPROPANE	<	.030	mg/KgW
ETHYLENE DIBROMIDE	<	.050	mg/KgW
METHYLETHYL KETONE	<	.100	mg/KgW
METHYL ISOBUTYL KETONE	<	.020	mg/KgW
STYRENE	<	.010	mg/KgW
TETRAHYDROFURAN	<	.040	mg/KgW
FREON 113	<	.010	mg/KgW
SATURATED HYDROCARBONS	<	.200	mg/KgW
UNSATURATED HYDROCARBONS	<	.200	mg/KgW
AROMATIC HYDROCARBONS	<	.200	mg/KgW
XYLENES	<	.010	mg/KgW
1,2,4-TRICHLOROBENZENE	<	.010	mg/KgW
FLUOROTRICHLOROMETHANE	<	.050	mg/KgW
DICHLORODIFLUOROMETHANE	<	.050	mg/KgW
M-CHLOROTOLUENE	<	.010	mg/KgW
DIBROMOMETHANE	<	.010	mg/KgW
1,3-DICHLOROPROPANE	<	.010	mg/KgW
BROMOCHLOROMETHANE	<	.010	mg/KgW
1,2,3-TRICHLOROPROPANE	<	.010	mg/KgW

Account No.: -
Lab Number : 90 10 12 199
Sample Type: Grab

Station Name: MISC South Yard 5
Side Sewer :

1,2,3-TRICHLOROBENZENE	<	.010	mg/KgW
N-PROPYLBENZENE	<	.010	mg/KgW
1,1,1,2-TETRACHLOROETHANE	<	.010	mg/KgW
PENTACHLOROETHANE	<	.010	mg/KgW
BIS (2-CHLOROISOPROPYL) ETHER	<	.020	mg/KgW
SEC-DICHLOROPROPANE	<	.010	mg/KgW
1,2,4-TRIMETHYLBENZENE	<	.010	mg/KgW
N-BUTYLBENZENE	<	.010	mg/KgW
NAPHTHALENE	<	.010	mg/KgW
HEXACHLOROBUTADIENE	<	.020	mg/KgW
P-CHLOROTOLUENE	<	.010	mg/KgW
1,3,5-TRIMETHYLBENZENE	<	.010	mg/KgW
P-ISOPROPYLTOLUENE	<	.010	mg/KgW
1,1-DICHLOROPROPANE	<	.010	mg/KgW
ISOPROPYLBENZENE	<	.010	mg/KgW
TERT-BUTYLBENZENE	<	.010	mg/KgW
SEC-BUTYLBENZENE	<	.010	mg/KgW
BROMOBENZENE	<	.010	mg/KgW
CIS-1,2-DICHLOROETHENE	<	.010	MG/KGW
O-CHOLOROTOLUENE	<	.010	MG/KGW
CARBON DISULFIDE	<	.010	mg/KgW
1,1-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL ACETATE	<	.010	mg/KG
2-HEXANONE	<	.010	MG/KGW
VINYL ACETATE	<	.010	MG/KGW
1,3-BUTADIENE	<	.010	MG/KGW
1,3-BUTADIENE	<	10.000	MG/KGW

Account No.: -
Lab Number : 90 10 12 200
Sample Type: Grab

Station Name: MISC South Yard 6
Side Sewer :

ACROLEIN	<	.050	mg/KgW
ACRYLONITRILE	<	.050	mg/KgW
BENZENE	<	.010	mg/KgW
BROMODICHLOROMETHANE-GC/MS	<	.010	mg/KgW
BROMOFROM-GC/MS	<	.020	mg/KgW
BROMOETHANE	<	.030	mg/KgW
CARBON TETRACHLORIDE	<	.010	mg/KgW
CHLOROBENZENE	<	.010	mg/KgW
CHLOROETHANE	<	.020	mg/KgW
2-CHLOROETHYLVINYL ETHER	<	.050	mg/KgW
CHLOROFORM	<	.010	mg/KgW
CHLOROMETHANE	<	.020	mg/KgW
DIBROMOCHLOROMETHANE	<	.010	mg/KgW
1,2-DICHOLORBENZENE	<	.010	mg/KgW
1,3-DICHLOROBENZENE	<	.010	mg/KgW
1,4-DICHLOROBENZENE	<	.010	mg/KgW
1,1-DICHLOROETHANE	<	.010	mg/KgW
1,2-DICHLOROETHENE	<	.010	mg/KgW
1,1-DICHLOROETHENE	<	.010	mg/KgW
TRANS-1,2-DICHLOROETHENE	<	.010	mg/KgW
1,2-DICHLOROPROPANE	<	.010	mg/KgW
CIS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
TRANS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL BENZENE	<	.010	mg/KgW
METHYLENE CHLORIDE	<	.010	mg/KgW
1,1,2,2-TETRACHLOROETHANE	<	.010	mg/KgW
TETRACHLOROETHENE	<	.010	mg/KgW
TOLUENE	<	.010	mg/KgW
1,1,1-TRICHLOROETHANE	<	.010	mg/KgW
1,1,2-TRICHLOROETHANE	<	.010	mg/KgW
TRICHLOROETHENE	<	.010	mg/KgW
VINYL CHLORIDE	<	.020	mg/KgW
ACETONE	<	.050	mg/KgW
DIBROMOCHLOROPROPANE	<	.030	mg/KgW
ETHYLENE DIBROMIDE	<	.050	mg/KgW
METHYLETHYL KETONE	<	.100	mg/KgW
METHYL ISOBUTYL KETONE	<	.020	mg/KgW
STYRENE	<	.010	mg/KgW
TETRAHYDROFURAN	<	.040	mg/KgW
FREON 113	<	.010	mg/KgW
SATURATED HYDROCARBONS	<	.200	mg/KgW
UNSATURATED HYDROCARBONS	<	.200	mg/KgW
AROMATIC HYDROCARBONS	<	.200	mg/KgW
XYLENES	<	.010	mg/KgW
1,2,4-TRICHLOROBENZENE	<	.010	mg/KgW
FLUOROTRICHLOROMETHANE	<	.050	mg/KgW
DICHLORODIFLUOROMETHANE	<	.050	mg/KgW
M-CHLOROTOLUENE	<	.010	mg/KgW
DIBROMOMETHANE	<	.010	mg/KgW
1,3-DICHLOROPROPANE	<	.010	mg/KgW
BROMOCHLOROMETHANE	<	.010	mg/KgW
1,2,3-TRICHLOROPROPANE	<	.010	mg/KgW

Account No.: -
Lab Number : 90 10 12 200
Sample Type: Grab

Station Name: MISC South Yard 6
Side Sewer :

1,2,3-TRICHLOROBENZENE	<	.010	mg/KgW
N-PROPYLBENZENE	<	.010	mg/KgW
1,1,1,2-TETRACHLOROETHANE	<	.010	mg/KgW
PENTACHLOROETHANE	<	.010	mg/KgW
BIS (2-CHLOROISOPROPYL) ETHER	<	.020	mg/KgW
SEC-DICHLOROPROPANE	<	.010	mg/KgW
1,2,4-TRIMETHYLBENZENE	<	.010	mg/KgW
N-BUTYLBENZENE	<	.010	mg/KgW
NAPHTHALENE	<	.010	mg/KgW
HEXACHLOROBUTADIENE	<	.020	mg/KgW
P-CHLOROTOLUENE	<	.010	mg/KgW
1,3,5-TRIMETHYLBENZENE	<	.010	mg/KgW
P-ISOPROPYLTOLUENE	<	.010	mg/KgW
1,1-DICHLOROPROPANE	<	.010	mg/KgW
ISOPROPYLBENZENE	<	.010	mg/KgW
TERT-BUTYLBENZENE	<	.010	mg/KgW
SEC-BUTYLBENZENE	<	.010	mg/KgW
BROMOBENZENE	<	.010	mg/KgW
CIS-1,2-DICHLOROETHENE	<	.010	MG/KGW
O-CHOLOROTOLUENE	<	.010	MG/KGW
CARBON DISULFIDE	<	.010	mg/KgW
1,1-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL ACETATE	<	.010	mg/KG
2-HEXANONE	<	.010	MG/KGW
VINYL ACETATE	<	.010	MG/KGW
1,3-BUTADIENE	<	.010	MG/KGW
1,3-BUTADIENE	<	10.000	MG/KGW

Account No.: -
Lab Number : 90 10 12 201
Sample Type: Grab

Station Name: MISC South Yard 7
Side Sewer :

ACROLEIN	<	.050	mg/KgW
ACRYLONITRILE	<	.050	mg/KgW
BENZENE	<	.010	mg/KgW
BROMODICHLOROMETHANE-GC/MS	<	.010	mg/KgW
BROMOFROM-GC/MS	<	.020	mg/KgW
BROMOETHANE	<	.030	mg/KgW
CARBON TETRACHLORIDE	<	.010	mg/KgW
CHLOROBENZENE	<	.010	mg/KgW
CHLOROETHANE	<	.020	mg/KgW
2-CHLOROETHYLVINYL ETHER	<	.050	mg/KgW
CHLOROFORM	<	.010	mg/KgW
CHLOROMETHANE	<	.020	mg/KgW
DIBROMOCHLOROMETHANE	<	.010	mg/KgW
1,2-DICHOLORBENZENE	<	.010	mg/KgW
1,3-DICHLOROBENZENE	<	.010	mg/KgW
1,4-DICHLOROBENZENE	<	.010	mg/KgW
1,1-DICHLOROETHANE	<	.010	mg/KgW
1,2-DICHLOROETHENE	<	.010	mg/KgW
1,1-DICHLOROETHENE	<	.010	mg/KgW
TRANS-1,2-DICHLOROETHENE	<	.010	mg/KgW
1,2-DICHLOROPROPANE	<	.010	mg/KgW
CIS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
TRANS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL BENZENE	<	.010	mg/KgW
METHYLENE CHLORIDE	<	.010	mg/KgW
1,1,2,2-TETRACHLOROETHANE	<	.010	mg/KgW
TETRACHLOROETHENE	<	.010	mg/KgW
TOLUENE	<	.010	mg/KgW
1,1,1-TRICHLOROETHANE	<	.010	mg/KgW
1,1,2-TRICHLOROETHANE	<	.010	mg/KgW
TRICHLOROETHENE	<	.010	mg/KgW
VINYL CHLORIDE	<	.020	mg/KgW
ACETONE	<	.050	mg/KgW
DIBROMOCHLOROPROPANE	<	.030	mg/KgW
ETHYLENE DIBROMIDE	<	.050	mg/KgW
METHYLETHYL KETONE	<	.100	mg/KgW
METHYL ISOBUTYL KETONE	<	.020	mg/KgW
STYRENE	<	.010	mg/KgW
TETRAHYDROFURAN	<	.040	mg/KgW
FREON 113	<	.010	mg/KgW
SATURATED HYDROCARBONS	<	.200	mg/KgW
UNSATURATED HYDROCARBONS	<	.200	mg/KgW
AROMATIC HYDROCARBONS	<	.200	mg/KgW
XYLENES	<	.010	mg/KgW
1,2,4-TRICHLOROBENZENE	<	.010	mg/KgW
FLUOROTRICHLOROMETHANE	<	.050	mg/KgW
DICHLORODIFLUOROMETHANE	<	.050	mg/KgW
M-CHLOROTOLUENE	<	.010	mg/KgW
DIBROMOMETHANE	<	.010	mg/KgW
1,3-DICHLOROPROPANE	<	.010	mg/KgW
BROMOCHLOROMETHANE	<	.010	mg/KgW
1,2,3-TRICHLOROPROPANE	<	.010	mg/KgW

Account No.: -
Lab Number : 90 10 12 201
Sample Type: Grab

Station Name: MISC South Yard 7
Side Sewer :

1,2,3-TRICHLOROBENZENE	<	.010	mg/KgW
N-PROPYLBENZENE	<	.010	mg/KgW
1,1,1,2-TETRACHLOROETHANE	<	.010	mg/KgW
PENTACHLOROETHANE	<	.010	mg/KgW
BIS (2-CHLOROISOPROPYL) ETHER	<	.020	mg/KgW
SEC-DICHLOROPROPANE	<	.010	mg/KgW
1,2,4-TRIMETHYLBENZENE	<	.010	mg/KgW
N-BUTYLBENZENE	<	.010	mg/KgW
NAPHTHALENE	<	.010	mg/KgW
HEXACHLOROBUTADIENE	<	.020	mg/KgW
P-CHLOROTOLUENE	<	.010	mg/KgW
1,3,5-TRIMETHYLBENZENE	<	.010	mg/KgW
P-ISOPROPYLTOLUENE	<	.010	mg/KgW
1,1-DICHLOROPROPANE	<	.010	mg/KgW
ISOPROPYLBENZENE	<	.010	mg/KgW
TERT-BUTYLBENZENE	<	.010	mg/KgW
SEC-BUTYLBENZENE	<	.010	mg/KgW
BROMOBENZENE	<	.010	mg/KgW
CIS-1,2-DICHLOROETHENE	<	.010	MG/KGW
O-CHOLOROTOLUENE	<	.010	MG/KGW
CARBON DISULFIDE	<	.010	mg/KgW
1,1-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL ACETATE	<	.010	mg/KG
2-HEXANONE	<	.010	MG/KGW
VINYL ACETATE	<	.010	MG/KGW
1,3-BUTADIENE	<	.010	MG/KGW
1,3-BUTADIENE	<	10.000	MG/KGW

Account No.: -
Lab Number : 90 10 12 202
Sample Type: Grab

Station Name: MISC South Yard 8
Side Sewer :

ACROLEIN	<	.050	mg/KgW
ACRYLONITRILE	<	.050	mg/KgW
BENZENE	<	.010	mg/KgW
BROMODICHLOROMETHANE-GC/MS	<	.010	mg/KgW
BROMOFROM-GC/MS	<	.020	mg/KgW
BROMOETHANE	<	.030	mg/KgW
CARBON TETRACHLORIDE	<	.010	mg/KgW
CHLOROBENZENE	<	.010	mg/KgW
CHLOROETHANE	<	.020	mg/KgW
2-CHLOROETHYLVINYL ETHER	<	.050	mg/KgW
CHLOROFORM	<	.010	mg/KgW
CHLOROMETHANE	<	.020	mg/KgW
DIBROMOCHLOROMETHANE	<	.010	mg/KgW
1,2-DICHOLORBENZENE	<	.010	mg/KgW
1,3-DICHLOROBENZENE	<	.010	mg/KgW
1,4-DICHLOROBENZENE	<	.010	mg/KgW
1,1-DICHLOROETHANE	<	.010	mg/KgW
1,2-DICHLOROETHENE	<	.010	mg/KgW
1,1-DICHLOROETHENE	<	.010	mg/KgW
TRANS-1,2-DICHLOROETHENE	<	.010	mg/KgW
1,2-DICHLOROPROPANE	<	.010	mg/KgW
CIS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
TRANS-1,3-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL BENZENE	<	.010	mg/KgW
METHYLENE CHLORIDE	<	.010	mg/KgW
1,1,2,2-TETRACHLOROETHANE	<	.010	mg/KgW
TETRACHLOROETHENE	<	.010	mg/KgW
TOLUENE	<	.010	mg/KgW
1,1,1-TRICHLOROETHANE	<	.010	mg/KgW
1,1,2-TRICHLOROETHANE	<	.010	mg/KgW
TRICHLOROETHENE	<	.010	mg/KgW
VINYL CHLORIDE	<	.020	mg/KgW
ACETONE	<	.050	mg/KgW
DIBROMOCHLOROPROPANE	<	.030	mg/KgW
ETHYLENE DIBROMIDE	<	.050	mg/KgW
METHYLETHYL KETONE	<	.100	mg/KgW
METHYL ISOBUTYL KETONE	<	.020	mg/KgW
STYRENE	<	.010	mg/KgW
TETRAHYDROFURAN	<	.040	mg/KgW
FREON 113	<	.010	mg/KgW
SATURATED HYDROCARBONS	<	.200	mg/KgW
UNSATURATED HYDROCARBONS	<	.200	mg/KgW
AROMATIC HYDROCARBONS	<	.200	mg/KgW
XYLENES	<	.010	mg/KgW
1,2,4-TRICHLOROBENZENE	<	.010	mg/KgW
FLUOROTRICHLOROMETHANE	<	.050	mg/KgW
DICHLORODIFLUOROMETHANE	<	.050	mg/KgW
M-CHLOROTOLUENE	<	.010	mg/KgW
DIBROMOMETHANE	<	.010	mg/KgW
1,3-DICHLOROPROPANE	<	.010	mg/KgW
BROMOCHLOROMETHANE	<	.010	mg/KgW
1,2,3-TRICHLOROPROPANE	<	.010	mg/KgW

Account No.: -
Lab Number : 90 10 12 202
Sample Type: Grab

Station Name: MISC South Yard 8
Side Sewer :

1,2,3-TRICHLOROBENZENE	<	.010	mg/KgW
N-PROPYLBENZENE	<	.010	mg/KgW
1,1,1,2-TETRACHLOROETHANE	<	.010	mg/KgW
PENTACHLOROETHANE	<	.010	mg/KgW
BIS (2-CHLOROISOPROPYL) ETHER	<	.020	mg/KgW
SEC-DICHLOROPROPANE	<	.010	mg/KgW
1,2,4-TRIMETHYLBENZENE	<	.010	mg/KgW
N-BUTYLBENZENE	<	.010	mg/KgW
NAPHTHALENE	<	.010	mg/KgW
HEXACHLOROBUTADIENE	<	.020	mg/KgW
P-CHLOROTOLUENE	<	.010	mg/KgW
1,3,5-TRIMETHYLBENZENE	<	.010	mg/KgW
P-ISOPROPYLTOLUENE	<	.010	mg/KgW
1,1-DICHLOROPROPANE	<	.010	mg/KgW
ISOPROPYLBENZENE	<	.010	mg/KgW
TERT-BUTYLBENZENE	<	.010	mg/KgW
SEC-BUTYLBENZENE	<	.010	mg/KgW
BROMOBENZENE	<	.010	mg/KgW
CIS-1,2-DICHLOROETHENE	<	.010	MG/KGW
O-CHOLOROTOLUENE	<	.010	MG/KGW
CARBON DISULFIDE	<	.010	mg/KgW
1,1-DICHLOROPROPENE	<	.010	mg/KgW
ETHYL ACETATE	<	.010	mg/KG
2-HEXANONE	<	.010	MG/KGW
VINYL ACETATE	<	.010	MG/KGW
1,3-BUTADIENE	<	.010	MG/KGW
1,3-BUTADIENE	<	10.000	MG/KGW

EBMUD

LABORATORY SERVICES CHAIN OF CUSTODY RECORD

Lab Number Date (1) 901012

Budget Unit Name & Code	Contact	Ext.	Analysis Required
	Karen Folks	221	
Program Title	Program Codes		
Sampled by: Stan Archacki	Report attention	MS	

Lab [2] Sample Number	Date Sampled	Time Sampled	Type [3] See Key Below	[4] ✓	Station Code	# Cont.	Account Codes	× 624	Sample Description/Remarks
									Results Due 10/11/90
193	10/12/90	1020	TRIP QC E $		TRIP QC	1	000	X	TRIP BLANK
194	"	1020	E $		FBLK QC	|	|	|	Field BLANK
195	"	1035	S		1 MISC	|	|	|	SOIL SAMPLES SOIL /ALA
196	"	1043	S		2 "	|	|	|	" # 2
197	"	1050	S		3 "	|	|	|	" # 3
198	"	1055	S		4 "	|	|	|	" # 4
199	"	1130	S		5 "	|	|	|	" # 5
200	"	1140	S		6 "	|	|	|	" # 6
201	"	1150	S		7 "	|	|	|	" # 7
202	"	1200	S		8 "	↓	✓	↓	" # 8

	Signature	Print Name	Time	Date
Relinquished by	Stanley Archacki	STAN ARCHACKI	1249	10/12/90
Received by	W. G. Hellier	W. G. Hellier	1250	10-12-90
Relinquished by				
Received by				
Relinquished by				
Received by				

NOTES:

(1) First six digits (YYMMDD)

(2) Last three digits only.

(3) Sample type codes: E = Hand Grab, F = Hand GrabComp, G = Auto Grab, H = Auto Composite

Sample Matrix Codes: Water, Wastewater (WW), Tissue, Ba Soil, Compost, Sludge, Petrolleum, Othe

(4) Check if a followup sample.

EBMUD Laboratory
Analytical Report

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

California Environmental Laboratory Accreditation Program Certificate Number 1060

Laboratory Report - L112151

LSR # - B793-9512-1 Project Title: TRENCH SPOILS PROGRAM

Report generated on: May 07, 2004 01:39 pm

2 - Samples received by the lab on: May 05 2004, 09:52 am
0 - Lost Analyses
0 - Hold Time Exceedences
Turn-around-time met

KENNETH GERSTMAN

WILLIAM M. ELLGAS 5/10/04

Please route this report to:

Client PM: SAFA TOMA
cc: Susan Suzuki

Samples included in this report:

Sample	Type	Collected	Site	Locator	ClientID
L112151-1	GRAB	05-May-2004 09:00	SOUTH YARD	MISC	South Yard soil under dispensers/pumps
L112151-2	GRAB	05-May-2004 09:15	SOUTH YARD	MISC	South Yard soil under dispensers/pumps

Legend to the laboratory qualifiers used in this report:
N - Spike recovery outside of control limits
U - Analyte not detected
Qualifiers for subcontract work - See textvalue for description

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: South Yard soil under dispensers/pumps
Lab ID: L112151-1 Rush - 2 working day TAT
Sample Type: GRAB (Instantaneous Grab)
Date Collected: May 05 2004, 09:00am Sample collector: R LAURITZEN/GR
Date Received: May 05 2004, 09:52am Sample receiver: LABTEMP
Sample Comments: B785 7999/1004686; South Yard soil samples collected from under existing dispensers/pumps prior to secondary containment installation

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
SEC-DICHLOROPROPANE	U	0.0042	mg/kg	1.0	0.0042		
CIS-1,2-DICHLOROETHENE	U	0.0012	mg/kg	1.0	0.0012		
METHYLACRYLATE	U	0.012	mg/kg	1.0	0.012		
METHYLACRYLONITRILE	U	0.012	mg/kg	1.0	0.012		
BROMOCHLOROMETHANE	U	0.0035	mg/kg	1.0	0.0035		
TETRAHYDROFURAN	U	0.25	mg/kg	1.0	0.25		
CHLOROFORM	U	0.0018	mg/kg	1.0	0.0018		
1,1,1-TRICHLOROETHANE	U	0.0020	mg/kg	1.0	0.0020		
1-CHLOROBUTANE	U	0.012	mg/kg	1.0	0.012		
1,1-DICHLOROPROPENE	U	0.0018	mg/kg	1.0	0.0018		
CARBON TETRACHLORIDE	U	0.0035	mg/kg	1.0	0.0035		
BENZENE	U	0.0012	mg/kg	1.0	0.0012		
1,2-DICHLOROETHANE	U	0.0015	mg/kg	1.0	0.0015		
TERT-AMYL METHYL ETHER	U	0.013	mg/kg	1.0	0.013		
TRICHLOROETHENE	U	0.0012	mg/kg	1.0	0.0012		
1,2-DICHLOROPROPANE	U	0.0030	mg/kg	1.0	0.0030		
METHYLMETHACRYLATE	U	0.012	mg/kg	1.0	0.012		
DIBROMOMETHANE	U	0.0022	mg/kg	1.0	0.0022		
BROMODICHLOROMETHANE	U	0.0020	mg/kg	1.0	0.0020		
2-CHLOROETHYLVINYL ETHER	U	0.0025	mg/kg	1.0	0.0025		
2-NITROPROPANE	U	0.012	mg/kg	1.0	0.012		
CHLOROACETONITRILE	U	0.25	mg/kg	1.0	0.25		
CIS-1,3-DICHLOROPROPENE	U	0.0018	mg/kg	1.0	0.0018		
4-METHYL-2-PENTANONE	U	0.010	mg/kg	1.0	0.010		
1,1-DICHLORO-2-PROPANONE	U	0.025	mg/kg	1.0	0.025		
TOLUENE	U	0.0018	mg/kg	1.0	0.0018		
TRANS-1,3-DICHLOROPROPENE	U	0.0050	mg/kg	1.0	0.0050		
ETHYLMETHACRYLATE	U	0.012	mg/kg	1.0	0.012		
1,1,2-TRICHLOROETHANE	U	0.0075	mg/kg	1.0	0.0075		
TETRACHLOROETHENE	U	0.0028	mg/kg	1.0	0.0028		
1,3-DICHLOROPROPANE	U	0.0018	mg/kg	1.0	0.0018		
2-HEXANONE	U	0.0025	mg/kg	1.0	0.0025		
DIBROMOCHLOROMETHANE	U	0.0015	mg/kg	1.0	0.0015		
ETHYLENE DIBROMIDE	U	0.0025	mg/kg	1.0	0.0025		
CHLOROBENZENE	U	0.0012	mg/kg	1.0	0.0012		
1,1,1,2-TETRACHLOROETHANE	U	0.0075	mg/kg	1.0	0.0075		
ETHYL BENZENE	U	0.0020	mg/kg	1.0	0.0020		
M+P XYLENES	U	0.0055	mg/kg	1.0	0.0055		
O-XYLENE	U	0.0028	mg/kg	1.0	0.0028		
STYRENE	U	0.0020	mg/kg	1.0	0.0020		
BROMOFORM	U	0.0025	mg/kg	1.0	0.0025		
ISOPROPYLBENZENE	U	0.0028	mg/kg	1.0	0.0028		
BROMOBENZENE	U	0.0020	mg/kg	1.0	0.0020		
TRANS-1,4-DICHLORO-2-BUTENE	U	0.012	mg/kg	1.0	0.012		
1,1,2,2-TETRACHLOROETHANE	U	0.0028	mg/kg	1.0	0.0028		
1,2,3-TRICHLOROPROPANE	U	0.0020	mg/kg	1.0	0.0020		
N-PROPYLBENZENE	U	0.0022	mg/kg	1.0	0.0022		
O-CHLOROTOLUENE	U	0.0030	mg/kg	1.0	0.0030		
P-CHLOROTOLUENE	U	0.0020	mg/kg	1.0	0.0020		
1,3,5-TRIMETHYLBENZENE		**0.053**	mg/kg	1.0	0.0045		
TERT-BUTYLBENZENE	U	0.0020	mg/kg	1.0	0.0020		
PENTACHLOROETHANE	U	0.0050	mg/kg	1.0	0.0050		
1,2,4-TRIMETHYLBENZENE		**0.058**	mg/kg	1.0	0.0088		

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: South Yard soil under dispensers/pumps
Lab ID: L112151-2 Rush - 2 working day TAT
Sample Type: GRAB (Instantaneous Grab)
Date Collected: May 05 2004, 09:15am Sample collector: R LAURITZEN/GR
Date Received: May 05 2004, 09:52am Sample receiver: LABTEMP
Sample Comments: South Yard soil samples collected from under existing dispensers/pumps prior to secondary containment installation

Method Reference / Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix / RL/ML	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS						Soil	
TARGET ANALYTES							
DIESEL		**11**	mg/kg	1.0	1.0		
MOTOR OIL COMPOSITE (C21-C32)	U	100	mg/kg	1.0	100		
SURROGATE PARAMETERS							
5-A-ANDROSTANE		81.1	% recovery	1.00			
Run ID: R122926 / Work Group No.: WG111436							
Prep Date1: 05-MAY-04 Prep Date2: 05-MAY-04 Analyzed 05-MAY-04							
Method: CALIFORNIA LUFT MANUAL - Gasoline:MeOH Ext.:GC/MS						Soil	
TARGET ANALYTES							
GASOLINE	U	1.0	mg/kg	1.0	1.0		
INTERNAL STANDARD							
FLUOROBENZENE		98.6	% recovery	1.00			
D5-CHLOROBENZENE		99.2	% recovery	1.00			
D4-1,4-DICHLOROBENZENE		94.2	% recovery	1.00			
SURROGATE PARAMETERS							
DIBROMOFLUOROMETHANE		96.4	% recovery	1.00			
D4-DICHLOROETHANE		78.2	% recovery	1.00			
D8-TOLUENE		92.8	% recovery	1.00			
4-BROMOFLUOROBENZENE		88.4	% recovery	1.00			
Run ID: R122939 / Work Group No.: WG111424							
Prep Date1: 05-MAY-04 Prep Date2: 05-MAY-04 Analyzed 06-MAY-04							
Method: EPA 8260B - Volatile Organics: GC/MS						Soil	
TARGET ANALYTES							
DICHLORODIFLUOROMETHANE	U,N	0.0022	mg/kg	1.0	0.0022		
CHLOROMETHANE	U	0.0025	mg/kg	1.0	0.0025		
VINYL CHLORIDE	U	0.0018	mg/kg	1.0	0.0018		
1,3-BUTADIENE	U	0.0050	mg/kg	1.0	0.0050		
BROMOMETHANE	U,N	0.0052	mg/kg	1.0	0.0052		
CHLOROETHANE	U,N	0.0048	mg/kg	1.0	0.0048		
FLUOROTRICHLOROMETHANE	U,N	0.0038	mg/kg	1.0	0.0038		
ETHYL ETHER	U	0.012	mg/kg	1.0	0.012		
ACROLEIN	U	0.50	mg/kg	1.0	0.50		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	U	0.0025	mg/kg	1.0	0.0025		
1,1-DICHLOROETHENE	U	0.0012	mg/kg	1.0	0.0012		
ACETONE	U,N	0.15	mg/kg	1.0	0.15		
IODOMETHANE	U	0.012	mg/kg	1.0	0.012		
CARBON DISULFIDE	U,N	0.0025	mg/kg	1.0	0.0025		
ALLYL CHLORIDE	U	0.012	mg/kg	1.0	0.012		
METHYLENE CHLORIDE	U	0.0018	mg/kg	1.0	0.0018		
TERT-BUTYL ALCOHOL	U	0.25	mg/kg	1.0	0.25		
ACRYLONITRILE	U	0.025	mg/kg	1.0	0.025		
METHYL-T-BUTYL ETHER	U	0.013	mg/kg	1.0	0.013		
TRANS-1,2-DICHLOROETHENE	U	0.0035	mg/kg	1.0	0.0035		
DIISOPROPYL ETHER	U	0.013	mg/kg	1.0	0.013		
VINYL ACETATE	U,N	0.0050	mg/kg	1.0	0.0050		
1,1-DICHLOROETHANE	U	0.0018	mg/kg	1.0	0.0018		
ETHYL-T-BUTYL ETHER	U	0.013	mg/kg	1.0	0.013		
2-BUTANONE	U	0.075	mg/kg	1.0	0.075		
ETHYL ACETATE	U	0.0025	mg/kg	1.0	0.0025		

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: South Yard soil under dispensers/pumps
Lab ID: L112151-2 Rush - 2 working day TAT
Sample Type: GRAB (Instantaneous Grab)
Date Collected: May 05 2004, 09:15am Sample collector: R LAURITZEN/GR
Date Received: May 05 2004, 09:52am Sample receiver: LABTEMP
Sample Comments: South Yard soil samples collected from under existing dispensers/pumps prior to secondary containment installation

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
SEC-BUTYLBENZENE	U	0.0025	mg/kg	1.0	0.0025		
1,3-DICHLOROBENZENE	U	0.0015	mg/kg	1.0	0.0015		
P-ISOPROPYLTOLUENE	U	0.0020	mg/kg	1.0	0.0020		
1,4-DICHLOROBENZENE	U	0.0010	mg/kg	1.0	0.0010		
1,2-DICHLOROBENZENE	U	0.0012	mg/kg	1.0	0.0012		
N-BUTYLBENZENE	U	0.0025	mg/kg	1.0	0.0025		
BIS(2-CHLOROISOPROPYL)ETHER	U	0.015	mg/kg	1.0	0.015		
HEXACHLOROETHANE	U	0.025	mg/kg	1.0	0.025		
DIBROMOCHLOROPROPANE	U	0.012	mg/kg	1.0	0.012		
NITROBENZENE	U	0.50	mg/kg	1.0	0.50		
1,2,4-TRICHLOROBENZENE	U	0.0028	mg/kg	1.0	0.0028		
HEXACHLOROBUTADIENE	U	0.0030	mg/kg	1.0	0.0030		
NAPHTHALENE	U	0.0025	mg/kg	1.0	0.0025		
1,2,3-TRICHLOROBENZENE	U	0.0028	mg/kg	1.0	0.0028		
INTERNAL STANDARD							
FLUOROBENZENE		101	% recovery	1.00			
D5-CHLOROBENZENE		100	% recovery	1.00			
D4-1,4-DICHLOROBENZENE		88.6	% recovery	1.00			
SURROGATE PARAMETERS							
DIBROMOFLUOROMETHANE		91.2	% recovery	1.00			
D4-DICHLOROETHANE		84.4	% recovery	1.00			
D8-TOLUENE		93.8	% recovery	1.00			
4-BROMOFLUOROBENZENE		90.8	% recovery	1.00			

Run ID: R122933 / Work Group No.: WG111423
Prep Date1: 05-MAY-04 Prep Date2: 05-MAY-04 Analyzed 06-MAY-04

Method: EPA 6010 - ICAP Metals						Soil	
TARGET ANALYTES							
LEAD		**8.78**	mg/kg	0.210	1.05		

Run ID: R122903 / Work Group No.: WG111444
Prep Date1: 05-MAY-04 Prep Date2: 06-MAY-04 Analyzed 06-MAY-04

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Prelog or Login No.: L112151

Project Title: TRENCH SPOILS PROGRAM
Account or Project: B793-9512-1

Client PM: SAFA TOMA
Tel No.: 1512
Lab PM: KENNETH GERSTMAN

Sampled by: R LAURITZEN
Rcvd: 05-MAY-04 09:52
Sample Date: 05-MAY-04

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Preservative	Date Initials	DueDate pH
L112151-1	GRAB	09:00	SOUTH YARD	MISC	Soil Soil Soil	521038 JARS 521039 JARS	8260;DIESEL GC/MS;GASOLINE GC/MS *ICP:C EPA 6010;PB EPA 6010 +REPORT			12-MAY-04

ClientID: South Yard soil under dispensers/pumps Sample Comments: B785 7999/1004686; South Yard soil samples collected from under existing dispensers/pumps prior to secondary co
Pricing: STD

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Preservative	Date Initials	DueDate pH
L112151-2	GRAB	09:15	SOUTH YARD	MISC	Soil Soil Soil	521040 JARS 521041 JARS	8260;DIESEL GC/MS;GASOLINE GC/MS *ICP:C EPA 6010;PB EPA 6010 +REPORT			12-MAY-04

ClientID: South Yard soil under dispensers/pumps Sample Comments: South Yard soil samples collected from under existing dispensers/pumps prior to secondary containment installat

Total containers received: 4

	Signature	Print Name	Time	Date
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by		LABTEMP	09:52	05-MAY-04

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

L112151

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Prelog or Login No.: P111150

Project Title: TRENCH SPOILS PROGRAM
Account or Project: B793-9512-1

Client PM: SAFA TOMA
Tel No.: 1512
Lab PM: KENNETH GERSTMAN

Sampled by: Robert Lauritzen/GR
Rcvd:
Sample Date: 5/5/04

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Preservative	Date Initials	DueDate pH
P111150-1	GRAB	0900	SOUTH YARD	MISC	Soil	521038 JARS	8260;DIESEL GC/MS;GASOLINE GC/MS			
D-1					Soil	521039 JARS	*ICP:C EPA 6010;PB EPA 6010	ice		
					Soil		+REPORT			

ClientID: South Yard soil under dispensers/pumps Sample Comments: B785 7999/######; South Yard soil samples collected from under existing dispensers/pumps prior to secondary conta
Pricing: STD

P111150-2	GRAB	0915	SOUTH YARD	MISC	Soil	521040 JARS	8260;DIESEL GC/MS;GASOLINE GC/MS			
D-2					Soil	521041 JARS	*ICP:C EPA 6010;PB EPA 6010	ice		
					Soil		+REPORT			

ClientID: South Yard soil under dispensers/pumps Sample Comments: South Yard soil samples collected from under existing dispensers/pumps prior to secondary containment installatio

Total containers received: 4

	Signature	Print Name	Time	Date
Relinquished by	Robert Lauritzen	Robert Lauritzen	0950	5/5/04
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by	Bobbi Martin	Bobbi Martin	0950	5/5/04

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

D-1 = Diesel Dispenser

D-2 = Gas Dispenser

EBMUD Laboratory
Analytical Report

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

California Environmental Laboratory Accreditation Program Certificate Number 1060

Laboratory Report - L112310

LSR # - B793-9512-1 Project Title: TRENCH SPOILS PROGRAM

Report generated on: May 14, 2004 06:47 am

2 - Samples received by the lab on: May 11 2004, 03:24 pm
0 - Lost Analyses
0 - Hold Time Exceedences
Turn-around-time met

KENNETH GERSTMAN **WILLIAM M. ELLGAS** 5/14/04

Please route this report to:

Client PM: SAFA TOMA

Samples included in this report:

Sample	Type	Collected	Site	Locator	ClientID
L112310-1	GRAB	11-May-2004 14:27	SOUTH YARD	MISC	South Yard soil under dispensers/pumps
L112310-2	GRAB	11-May-2004 13:00	SOUTH YARD	MISC	South Yard Stock Pile From Under Pumps

Legend to the laboratory qualifiers used in this report:
N - Spike recovery outside of control limits
T - Diesel/Gasoline pattern is atypical
U - Analyte not detected
Qualifiers for subcontract work - See textvalue for description

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: South Yard soil under dispensers/pumps
Lab ID: L112310-1 Rush - 2 working day TAT
Sample Type: GRAB (Instantaneous Grab)
Date Collected: May 11 2004, 02:27pm Sample collector: R LAURITZEN
Date Received: May 11 2004, 03:24pm Sample receiver: BMARTIN
Sample Comments: B785 7999/1004686; South Yard soil samples collected from under existing dispensers/pumps prior to secondary containment installation; Follow-up sample from L112151-1 with Diesel result of 1400 mg/kg; SOUTH DISPENSER AT 5.5'

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
1,2-DICHLOROETHANE	U	0.0030	mg/kg	2.0	0.0030		
TERT-AMYL METHYL ETHER	U	0.026	mg/kg	2.0	0.026		
TRICHLOROETHENE	U	0.0024	mg/kg	2.0	0.0024		
1,2-DICHLOROPROPANE	U	0.0060	mg/kg	2.0	0.0060		
METHYLMETHACRYLATE	U	0.025	mg/kg	2.0	0.025		
DIBROMOMETHANE	U	0.0044	mg/kg	2.0	0.0044		
BROMODICHLOROMETHANE	U	0.0040	mg/kg	2.0	0.0040		
2-CHLOROETHYLVINYL ETHER	U	0.0050	mg/kg	2.0	0.0050		
2-NITROPROPANE	U	0.025	mg/kg	2.0	0.025		
CHLOROACETONITRILE	U	0.50	mg/kg	2.0	0.50		
CIS-1,3-DICHLOROPROPENE	U	0.0036	mg/kg	2.0	0.0036		
4-METHYL-2-PENTANONE	U	0.020	mg/kg	2.0	0.020		
1,1-DICHLORO-2-PROPANONE	U	0.050	mg/kg	2.0	0.050		
TOLUENE	U	0.0036	mg/kg	2.0	0.0036		
TRANS-1,3-DICHLOROPROPENE	U	0.010	mg/kg	2.0	0.010		
ETHYLMETHACRYLATE	U	0.025	mg/kg	2.0	0.025		
1,1,2-TRICHLOROETHANE	U	0.015	mg/kg	2.0	0.015		
TETRACHLOROETHENE	U	0.0056	mg/kg	2.0	0.0056		
1,3-DICHLOROPROPANE	U	0.0036	mg/kg	2.0	0.0036		
2-HEXANONE	U	0.0050	mg/kg	2.0	0.0050		
DIBROMOCHLOROMETHANE	U	0.0030	mg/kg	2.0	0.0030		
ETHYLENE DIBROMIDE	U	0.0050	mg/kg	2.0	0.0050		
CHLOROBENZENE	U	0.0024	mg/kg	2.0	0.0024		
1,1,1,2-TETRACHLOROETHANE	U	0.015	mg/kg	2.0	0.015		
ETHYL BENZENE	U	0.0040	mg/kg	2.0	0.0040		
M+P XYLENES	U	0.011	mg/kg	2.0	0.011		
O-XYLENE	U	0.0056	mg/kg	2.0	0.0056		
STYRENE	U	0.0040	mg/kg	2.0	0.0040		
BROMOFORM	U	0.0050	mg/kg	2.0	0.0050		
ISOPROPYLBENZENE	U	0.0056	mg/kg	2.0	0.0056		
BROMOBENZENE	U	0.0040	mg/kg	2.0	0.0040		
TRANS-1,4-DICHLORO-2-BUTENE	U	0.025	mg/kg	2.0	0.025		
1,1,2,2-TETRACHLOROETHANE	U	0.0056	mg/kg	2.0	0.0056		
1,2,3-TRICHLOROPROPANE	U	0.0040	mg/kg	2.0	0.0040		
N-PROPYLBENZENE	U	0.0044	mg/kg	2.0	0.0044		
O-CHLOROTOLUENE	U	0.0060	mg/kg	2.0	0.0060		
P-CHLOROTOLUENE	U	0.0040	mg/kg	2.0	0.0040		
1,3,5-TRIMETHYLBENZENE	U	0.0090	mg/kg	2.0	0.0090		
TERT-BUTYLBENZENE	U	0.0040	mg/kg	2.0	0.0040		
PENTACHLOROETHANE	U	0.010	mg/kg	2.0	0.010		
1,2,4-TRIMETHYLBENZENE	U	0.018	mg/kg	2.0	0.018		
SEC-BUTYLBENZENE	U	0.0050	mg/kg	2.0	0.0050		
1,3-DICHLOROBENZENE	U	0.0030	mg/kg	2.0	0.0030		
P-ISOPROPYLTOLUENE	U	0.0040	mg/kg	2.0	0.0040		
1,4-DICHLOROBENZENE	U	0.0020	mg/kg	2.0	0.0020		
1,2-DICHLOROBENZENE	U	0.0024	mg/kg	2.0	0.0024		
N-BUTYLBENZENE	U	0.0050	mg/kg	2.0	0.0050		
BIS(2-CHLOROISOPROPYL)ETHER	U	0.030	mg/kg	2.0	0.030		
HEXACHLOROETHANE	U	0.050	mg/kg	2.0	0.050		
DIBROMOCHLOROPROPANE	U	0.024	mg/kg	2.0	0.024		
NITROBENZENE	U	1.0	mg/kg	2.0	1.0		

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: South Yard Stock Pile From Under Pumps
Lab ID: L112310-2 Rush - 2 working day TAT
Sample Type: GRAB (Instantaneous Grab)
Date Collected: May 11 2004, 01:00pm Sample collector: R LAURITZEN
Date Received: May 11 2004, 03:24pm Sample receiver: BMARTIN
Sample Comments: South Yard stockpile soil samples collected from under existing dispensers/pumps prior to secondary containment installation; Follow-up sample from L112151-1 with Diesel result of 1400 mg/kg; STOCK PILE SAMPLE

Method Reference / Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix / RL/ML	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS						Soil	
TARGET ANALYTES							
DIESEL	T	**430**	mg/kg	10	10		
Unidentified interfering peaks eluted between diesel and motor oil.							
MOTOR OIL COMPOSITE (C21-C32)	U	1,000	mg/kg	10	1000		
SURROGATE PARAMETERS							
5-A-ANDROSTANE		12.8	% recovery	10.0			
Run ID: R123093 / Work Group No.: WG111608							
Prep Date1: 12-MAY-04 Prep Date2: 12-MAY-04 Analyzed 12-MAY-04							
Method: EPA 8260B - Volatile Organics: GC/MS						Soil	
TARGET ANALYTES							
DICHLORODIFLUOROMETHANE	U	0.0044	mg/kg	2.0	0.0044		
CHLOROMETHANE	U	0.0050	mg/kg	2.0	0.0050		
VINYL CHLORIDE	U	0.0036	mg/kg	2.0	0.0036		
1,3-BUTADIENE	U	0.010	mg/kg	2.0	0.010		
BROMOMETHANE	U,N	0.010	mg/kg	2.0	0.010		
CHLOROETHANE	U,N	0.0096	mg/kg	2.0	0.0096		
FLUOROTRICHLOROMETHANE	U	0.0076	mg/kg	2.0	0.0076		
ETHYL ETHER	U	0.025	mg/kg	2.0	0.025		
ACROLEIN	U	1.0	mg/kg	2.0	1.0		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	U	0.0050	mg/kg	2.0	0.0050		
1,1-DICHLOROETHENE	U	0.0024	mg/kg	2.0	0.0024		
ACETONE	U,N	0.30	mg/kg	2.0	0.30		
IODOMETHANE	U	0.025	mg/kg	2.0	0.025		
CARBON DISULFIDE	U	0.0050	mg/kg	2.0	0.0050		
ALLYL CHLORIDE	U	0.025	mg/kg	2.0	0.025		
METHYLENE CHLORIDE	U	0.0036	mg/kg	2.0	0.0036		
TERT-BUTYL ALCOHOL	U	0.50	mg/kg	2.0	0.50		
ACRYLONITRILE	U	0.050	mg/kg	2.0	0.050		
METHYL-T-BUTYL ETHER	U	0.026	mg/kg	2.0	0.026		
TRANS-1,2-DICHLOROETHENE	U	0.0070	mg/kg	2.0	0.0070		
DIISOPROPYL ETHER	U	0.026	mg/kg	2.0	0.026		
VINYL ACETATE	U,N	0.010	mg/kg	2.0	0.010		
1,1-DICHLOROETHANE	U	0.0036	mg/kg	2.0	0.0036		
ETHYL-T-BUTYL ETHER	U	0.026	mg/kg	2.0	0.026		
2-BUTANONE	U,N	0.15	mg/kg	2.0	0.15		
ETHYL ACETATE	U	0.0050	mg/kg	2.0	0.0050		
SEC-DICHLOROPROPANE	U	0.0084	mg/kg	2.0	0.0084		
CIS-1,2-DICHLOROETHENE	U	0.0024	mg/kg	2.0	0.0024		
METHYLACRYLATE	U	0.025	mg/kg	2.0	0.025		
METHYLACRYLONITRILE	U	0.025	mg/kg	2.0	0.025		
BROMOCHLOROMETHANE	U	0.0070	mg/kg	2.0	0.0070		
TETRAHYDROFURAN	U	0.50	mg/kg	2.0	0.50		
CHLOROFORM	U	0.0036	mg/kg	2.0	0.0036		
1,1,1-TRICHLOROETHANE	U	0.0040	mg/kg	2.0	0.0040		
1-CHLOROBUTANE	U	0.025	mg/kg	2.0	0.025		
1,1-DICHLOROPROPENE	U	0.0036	mg/kg	2.0	0.0036		
CARBON TETRACHLORIDE	U	0.0070	mg/kg	2.0	0.0070		
BENZENE	U	0.0024	mg/kg	2.0	0.0024		
1,2-DICHLOROETHANE	U	0.0030	mg/kg	2.0	0.0030		

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: South Yard Stock Pile From Under Pumps
Lab ID: L112310-2 Rush - 2 working day TAT
Sample Type: GRAB (Instantaneous Grab)
Date Collected: May 11 2004, 01:00pm Sample collector: R LAURITZEN
Date Received: May 11 2004, 03:24pm Sample receiver: BMARTIN
Sample Comments: South Yard stockpile soil samples collected from under existing dispensers/pumps prior to secondary containment installation; Follow-up sample from L112151-1 with Diesel result of 1400 mg/kg; STOCK PILE SAMPLE

Method Reference — Matrix: Tag

Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML
NAPHTHALENE	U	0.0050	mg/kg	2.0	0.0050	
1,2,3-TRICHLOROBENZENE	U,N	0.0056	mg/kg	2.0	0.0056	
INTERNAL STANDARD						
FLUOROBENZENE		88.4	% recovery	1.00		
D5-CHLOROBENZENE		85.4	% recovery	1.00		
D4-1,4-DICHLOROBENZENE		74.4	% recovery	1.00		
SURROGATE PARAMETERS						
DIBROMOFLUOROMETHANE		94.8	% recovery	1.00		
D4-DICHLOROETHANE		81.0	% recovery	1.00		
D8-TOLUENE		96.8	% recovery	1.00		
4-BROMOFLUOROBENZENE		87.6	% recovery	1.00		

Run ID: R123086 / Work Group No.: WG111593
Prep Date1: 12-MAY-04 Prep Date2: 12-MAY-04 Analyzed 13-MAY-04

Method: EPA 6010 - ICAP Metals — Soil

Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML
TARGET ANALYTES						
LEAD		**1.66**	mg/kg	0.196	0.982	

Run ID: R123089 / Work Group No.: WG111619
Prep Date1: 11-MAY-04 Prep Date2: 13-MAY-04 Analyzed 13-MAY-04

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Prelog or Login No.: L112310

Project Title
TRENCH SPOILS PROGRAM
Account or Project: B793-9512-1

Client PM: SAFA TOMA
Tel No.: 1512
Lab PM: KENNETH GERSTMAN

Sampled by: R LAURITZEN
Rcvd: 11-MAY-04 15:24
Sample Date: 11-MAY-04

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Preservative	Date Initials	DueDate pH
L112310-1	GRAB	14:27	SOUTH YARD	MISC	Soil Soil Soil	523353 JARS 523354 JARS	8260;DIESEL GC/MS *ICP;C EPA 6010;PB EPA 6010 +REPORT			13-MAY-04

ClientID: South Yard soil under dispensers/pumps Sample Comments: B785 7999/1004686; South Yard soil samples collected from under existing dispensers/pumps prior to secondary co
Follow-up sample from L112151-1 with Diesel result of 1400 mg/kg, SOUTH DISPENSER AT 5.5' Pricing: STD

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Preservative	Date Initials	DueDate pH
L112310-2	GRAB	13:00	SOUTH YARD	MISC	Soil Soil Soil	523361 JARS 523362 JARS	8260;DIESEL GC/MS *ICP;C EPA 6010;PB EPA 6010 +REPORT			13-MAY-04

ClientID: South Yard Stock Pile From Under Pumps Sample Comments: South Yard stockpile soil samples collected from under existing dispensers/pumps prior to secondary containment
sample from L112151-1 with Diesel result of 1400 mg/kg, STOCK PILE SAMPLE Pricing: STD

Total containers received: 4

	Signature	Print Name	Time	Date
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by		Bobbi J Martin	15:24	11-MAY-04

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

112310

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Page 1 of 1

Prelog or Login No.: P111302

Project Title: TRENCH SPOILS PROGRAM
Account or Project: B793-9512-1

Client PM: SAFA TOMA
Tel No.: 1512
Lab PM: KENNETH GERSTMAN

Sampled by:
Rcvd:
Sample Date:

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Preservative	Date Initials	DueDate pH
P111302-1	GRAB		SOUTH YARD	MISC	Soil Soil Soil	523353 JARS 523354 JARS	8260;DIESEL GC/MS *ICP:C EPA 6010;PB EPA 6010 +REPORT	ice	5/11/04 RAE	

South dispenser @ 5.5 feet - 0-1 @ 5.5'

ClientID: South Yard soil under dispensers/pumps Sample Comments: B785 7999/1004686; South Yard soil samples collected from under existing dispensers/pumps prior to secondary c
Follow-up sample from L112151-1 with Diesel result of 1400 mg/kg Pricing: STD

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Preservative	Date Initials	DueDate pH
P111302-2	GRAB		SOUTH YARD	MISC	Soil Soil Soil	523361 JARS 523362 JARS	8260;DIESEL GC/MS *ICP:C EPA 6010;PB EPA 6010 +REPORT	ice	5/11/04 RAE	

stockpile sample

ClientID: South Yard Stock Pile From Under Pumps Sample Comments: South Yard stockpile soil samples collected from under existing dispensers/pumps prior to secondary containmen
sample from L112151-1 with Diesel result of 1400 mg/kg Pricing: STD

Total containers received: 4

	Signature	Print Name	Time	Date
Relinquished by	Robert A. Lauritzen	Robert Lauritzen		5/11/04
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by	Bobbi Martin	Bobbi Martin	1524	5/11/04

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

APPENDIX B

Soil Boring Permit

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 04/14/2009 By jamesy

Permit Numbers: W2009-0277
Permits Valid from 04/17/2009 to 04/17/2009

Application Id: 1239645428317 **City of Project Site:** San Lorenzo
Site Location: 589 East Lewelling Blvd
San Lorenzo, Ca
Project Start Date: 04/17/2009 **Completion Date:** 04/17/2009
Assigned Inspector: Contact John Shouldice at (510) 670-5424 or johns@acpwa.org

Applicant: Alisto Engineering Group - Chris Reinheimer **Phone:** 925-279-5000
2737 N. Main Street, Suite 100, Walnut Creek, CA 94597
Property Owner: East Bay MUD East Bay MUD **Phone:** --
375 11th Street M.S. 704, Oakland, CA 94607
Client: same as above same as above **Phone:** --
same as above, same as above, CA 94607

Total Due: $230.00
Receipt Number: WR2009-0133 **Total Amount Paid:** $230.00
Payer Name : Evelyn S Sevilla Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 2 Boreholes
Driller: EnProbe - Lic #: 748088 - Method: DP **Work Total: $230.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-0277	04/14/2009	07/16/2009	2	2.25 in.	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact John Shouldice for an inspection time at 510-670-5424 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or

waterways or be allowed to move off the property where work is being completed.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX C

Boring Logs

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING B–1

BORING LOCATION:
SEE SITE PLAN

ALISTO PROJECT NO: 10–654–42	***DATE DRILLED:*** 04/17/09
CLIENT: EBMUD	***BOREHOLE DIAMETER:*** 2.25'
LOCATION: 589 E. Lewelling, San Lorenzo	***BOREHOLE DEPTH:*** 24'
DRILLING METHOD: GeoProbe	***CASING DIAMETER:*** N/A
DRILLING COMPANY: EnProb	***CASING MATERIAL:*** N/A
LOGGED BY: S. Parker	***APROVED BY:*** Al Sevilla

PID VALUES	BORING DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
0.0	Neat Cement Grout	5			CL	Hand Auger to 5'. Asphalt surface Easy push 5' – 8' Sandy clay, dark brown, moist
		10			SM	Silty sand, light brown, moist
		15			ML/CL	Silty clay/Clayey silt, dark brown, moist
		20			SW	Silty sand with some gravel, yellow brown, wet Water @ 18'
		25			CL	Silty clay, dark brown, moist to wet, some organics TD 24'
		30				

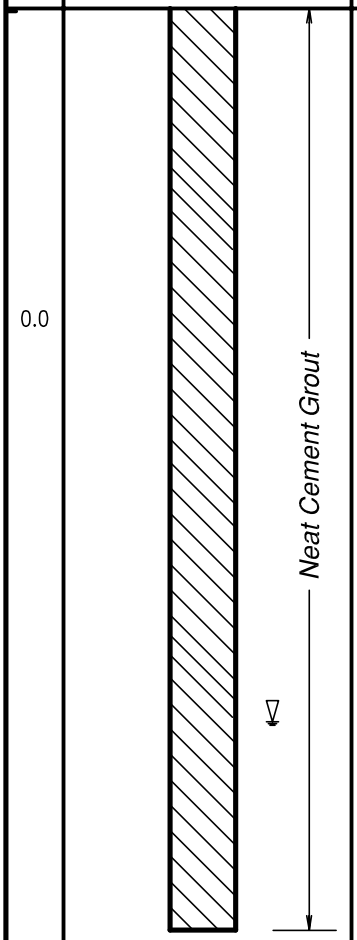
Z:\DWG_ASSESS\06\10654\10-654-42

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING B–2

BORING LOCATION:
SEE SITE PLAN

ALISTO PROJECT NO: 10–654–42	***DATE DRILLED:*** 04/17/09
CLIENT: EBMUD	***BOREHOLE DIAMETER:*** 2.25'
LOCATION: 589 E. Lewelling, San Lorenzo	***BOREHOLE DEPTH:*** 24'
DRILLING METHOD: GeoProbe	***CASING DIAMETER:*** N/A
DRILLING COMPANY: EnProb	***CASING MATERIAL:*** N/A
LOGGED BY: S. Parker	***APROVED BY:*** Al Sevilla



PID VALUES	DEPTH feet	SOIL CLASS	GEOLOGIC DESCRIPTION
0.0	0		Hand Auger to 5'. Asphalt surface
	5	ML	Sandy silt, light brown, moist, some clay present
	10	ML	Sandy silt, brown, dry to moist
	15		
	20	SM/GW	Silty sand/Silty gravel, yellow brown, wet
		CL	Silty clay, dark brown, moist
	25		TD 24'
	30		

Z:\DWG_ASSESS\06\10654\10-654-42

APPENDIX D

Field Procedures for Drilling, Soil Sampling, and Grab Groundwater Sampling

FIELD PROCEDURES
FOR
DRILLING, SOIL SAMPLING,
AND GRAB GROUNDWATER SAMPLING

Drilling

The borings were drilled using a truck-mounted Geoprobe direct-push drilling rig equipped with a 2.25-inch-diameter continuous sampling tool. To avoid cross-contamination, drilling equipment in contact with potentially contaminated material was decontaminated by steam cleaning before and after each use. Decontamination fluids were placed into DOT-approved drums for disposal.

Soil and Grab Groundwater Sampling

During drilling, core samples were collected at minimum interval of five feet using a coring tool lined with Lexan sample tubes, beginning at 5 feet below grade to the total depth of the borings. Before and after each use, the sampler was washed using a phosphate-free detergent followed by tap water and deionized water rinses.

After retrieval from the Geoprobe drill string, the sample core was removed, and a soil sample was selected for chemical analysis. The sample was retained within the Lexan liner, and both ends were immediately covered with Teflon sheeting and polyurethane caps. The caps were sealed with tape and labeled with the following information: Alisto's project number, boring number, sample depth interval, sampler's initials, and date of collection. The sample was immediately placed in a waterproof plastic bag and stored in a cooler containing blue ice. Possession of the samples was documented from the field to a state-certified analytical laboratory by using a chain of custody form.

Soil samples were described by Alisto's personnel using the Unified Soils Classification System; and field estimates of soil type, color, moisture, density, and consistency were noted on the boring logs. The logs were reviewed by a civil engineer registered in the state of California.

Once the desired sampling depth of the boring was reached a Hydropunch tool was used or the Geoprobe drill string was retrieved from the boring and clean temporary well casing was installed in the boring to prevent caving. If sufficient groundwater was present in the boring, a grab groundwater sample was collected using with either a peristaltic surface pump. The grab groundwater sample was immediately placed into the appropriate laboratory-supplied container, properly labeled and temporarily stored in an iced cooler.

After completion of the grab groundwater sampling, the temporary casing was removed and the borings were backfilled using tremied neat cement from the total depth to within 6 inches of grade. The surface was repaired to match existing with either asphalt cold patch or concrete.

APPENDIX E

Field Procedures for Chain of Custody Documentation, Laboratory Reports, and Chain of Custody Records

FIELD PROCEDURES
FOR
CHAIN OF CUSTODY DOCUMENTATION

Samples were handled in accordance with the California Department of Health Services guidelines. Each sample was labeled in the field and immediately stored in an iced cooler for transport to a state-certified laboratory for analysis. All samples were delivered to the lab within 24 hours of collection by Alisto engineering personnel

A chain of custody record accompanied the samples and included the site and sample identification, date of collection, analysis requested, and the name and signature of the sampling technician. When transferring possession of the samples, the transferee signed and dated the chain of custody record.

EBMUD Laboratory

Analytical Report

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

California Environmental Laboratory Accreditation Program Certificate Number 1060

Laboratory Report - L151437

LSR # - B793-9512-1 Project Title: TRENCH SPOILS PROGRAM

Report generated on: Jun 01, 2009 07:59 am

8 - Samples received by the lab on: Apr 22 2009, 09:22 am
0 - Lost Analyses
0 - Hold Time Exceedences
Turn-around-time met

Client PM: JOHN WALTER Lab PM: KENNETH GERSTMAN

This is an electronic transmittal of a Laboratory Analytical Report

Samples included in this report:

Sample	Type	Collected	Site	Locator	ClientID
L151437-1	GRAB	17-Apr-2009 08:50	SOUTH YARD	MISC	B1 6ft
L151437-2	GRAB	17-Apr-2009 08:55	SOUTH YARD	MISC	B1 11ft
L151437-3	GRAB	17-Apr-2009 09:00	SOUTH YARD	MISC	B1 17ft
L151437-4	GRAB	17-Apr-2009 09:45	SOUTH YARD	MISC	B2 6ft
L151437-5	GRAB	17-Apr-2009 09:50	SOUTH YARD	MISC	B2 11ft
L151437-6	GRAB	17-Apr-2009 10:00	SOUTH YARD	MISC	B2 17ft
L151437-7	GRAB	17-Apr-2009 09:30	SOUTH YARD	MISC	B1W
L151437-8	GRAB	17-Apr-2009 10:30	SOUTH YARD	MISC	B2W

Legend to the laboratory qualifiers used in this report:
U - Analyte not detected
Qualifiers for subcontract work - See textvalue for description

RESULTS IN THIS REPORT ARE REPORTED IN ACCORDANCE WITH TITLE 22, SECTION 64819

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: B1 6ft
Lab ID: L151437-1 (P153643-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Apr 17 2009, 08:50am Sample collector: SParker/Alisto
Date Received: Apr 22 2009, 09:22am Sample receiver: DNG
Sample Comments: Analyst Note: DIESEL GC/MS report DIESEL only; 8270 report NAPHTHALENE only.

Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	Matrix	Tag
Method Reference								
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS							Soil	
TARGET ANALYTES								
DIESEL	U	1.5	mg/kg	1	1.5			
MOTOR OIL COMPOSITE (C21-C32)	U	18	mg/kg	1	18			
INTERNAL STANDARD								
5-A-ANDROSTANE		168	% recovery	1				
Run ID: R183225 / Work Group No.: WG154137								
Prep Date1: 30-APR-09 Prep Date2: 06-MAY-09 Analyzed 06-May-09 20:11								
Method: EPA 8270C - Semivolatile Organics: GC/MS							Soil	
TARGET ANALYTES								
NAPHTHALENE	U	0.021	mg/kg	1	0.021			
INTERNAL STANDARD								
D8-NAPHTHALENE		91.7	% recovery	1	1			
SURROGATE								
2-FLUOROBIPHENYL		73	% recovery	1				
Run ID: R183102 / Work Group No.: WG153981								
Prep Date1: 29-APR-09 Prep Date2: 05-MAY-09 Analyzed 06-May-09 02:13								

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: B1 11ft
Lab ID: L151437-2 (P153643-2)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Apr 17 2009, 08:55am Sample collector: SParker/Alisto
Date Received: Apr 22 2009, 09:22am Sample receiver: DNG
Sample Comments: Analyst Note: DIESEL GC/MS report DIESEL only; 8270 report NAPHTHALENE only.

Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	Matrix	Tag
Method Reference								
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS							Soil	
TARGET ANALYTES								
DIESEL	U	1.5	mg/kg	1	1.5			
MOTOR OIL COMPOSITE (C21-C32)	U	18	mg/kg	1	18			
INTERNAL STANDARD								
5-A-ANDROSTANE		136	% recovery	1				
Run ID: R183225 / Work Group No.: WG154137								
Prep Date1: 30-APR-09 Prep Date2: 06-MAY-09 Analyzed 06-May-09 20:37								
Method: EPA 8270C - Semivolatile Organics: GC/MS							Soil	
TARGET ANALYTES								
NAPHTHALENE	U	0.021	mg/kg	1	0.021			
INTERNAL STANDARD								
D8-NAPHTHALENE		91.9	% recovery	1	1			
SURROGATE								
2-FLUOROBIPHENYL		74	% recovery	1				
Run ID: R183102 / Work Group No.: WG153981								
Prep Date1: 29-APR-09 Prep Date2: 05-MAY-09 Analyzed 06-May-09 02:58								

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: B1 17ft
Lab ID: L151437-3 (P153643-3)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Apr 17 2009, 09:00am Sample collector: SParker/Alisto
Date Received: Apr 22 2009, 09:22am Sample receiver: DNG
Sample Comments: Analyst Note: DIESEL GC/MS report DIESEL only; 8270 report NAPHTHALENE only.

Method Reference / Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix / RL/ML	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS						Soil	
TARGET ANALYTES							
DIESEL	U	1.5	mg/kg	1	1.5		
MOTOR OIL COMPOSITE (C21-C32)	U	18	mg/kg	1	18		
INTERNAL STANDARD							
5-A-ANDROSTANE		159	% recovery	1			
Run ID: R183225 / Work Group No.: WG154137							
Prep Date1: 30-APR-09 Prep Date2: 06-MAY-09 Analyzed 06-May-09 21:03							
Method: EPA 8270C - Semivolatile Organics: GC/MS						Soil	
TARGET ANALYTES							
NAPHTHALENE	U	0.021	mg/kg	1	0.021		
INTERNAL STANDARD							
D8-NAPHTHALENE		87.8	% recovery	1	1		
SURROGATE							
2-FLUOROBIPHENYL		75	% recovery	1			
Run ID: R183102 / Work Group No.: WG153981							
Prep Date1: 29-APR-09 Prep Date2: 05-MAY-09 Analyzed 06-May-09 03:43							

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: B2 6ft
Lab ID: L151437-4 (P153643-4)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Apr 17 2009, 09:45am Sample collector: SParker/Alisto
Date Received: Apr 22 2009, 09:22am Sample receiver: DNG
Sample Comments: Analyst Note: DIESEL GC/MS report DIESEL only; 8270 report NAPHTHALENE only.

Method Reference / Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix / RL/ML	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS						Soil	
TARGET ANALYTES							
DIESEL	U	1.5	mg/kg	1	1.5		
MOTOR OIL COMPOSITE (C21-C32)	U	18	mg/kg	1	18		
INTERNAL STANDARD							
5-A-ANDROSTANE		144	% recovery	1			
Run ID: R183225 / Work Group No.: WG154137							
Prep Date1: 30-APR-09 Prep Date2: 06-MAY-09 Analyzed 06-May-09 21:29							
Method: EPA 8270C - Semivolatile Organics: GC/MS						Soil	
TARGET ANALYTES							
NAPHTHALENE	U	0.021	mg/kg	1	0.021		
INTERNAL STANDARD							
D8-NAPHTHALENE		85.6	% recovery	1	1		
SURROGATE							
2-FLUOROBIPHENYL		74	% recovery	1			
Run ID: R183102 / Work Group No.: WG153981							
Prep Date1: 29-APR-09 Prep Date2: 05-MAY-09 Analyzed 06-May-09 04:29							

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: B2 11ft
Lab ID: L151437-5 (P153643-5)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Apr 17 2009, 09:50am Sample collector: SParker/Alisto
Date Received: Apr 22 2009, 09:22am Sample receiver: DNG
Sample Comments: Analyst Note: DIESEL GC/MS report DIESEL only; 8270 report NAPHTHALENE only.

Method Reference / Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	Matrix	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS							Soil	
TARGET ANALYTES								
DIESEL	U	1.5	mg/kg	1	1.5			
MOTOR OIL COMPOSITE (C21-C32)	U	18	mg/kg	1	18			
INTERNAL STANDARD								
5-A-ANDROSTANE		141	% recovery	1				
Run ID: R183225 / Work Group No.: WG154137								
Prep Date1: 30-APR-09 Prep Date2: 06-MAY-09 Analyzed 06-May-09 21:55								
Method: EPA 8270C - Semivolatile Organics: GC/MS							Soil	
TARGET ANALYTES								
NAPHTHALENE	U	0.021	mg/kg	1	0.021			
INTERNAL STANDARD								
D8-NAPHTHALENE		95.7	% recovery	1	1			
SURROGATE								
2-FLUOROBIPHENYL		67	% recovery	1				
Run ID: R183102 / Work Group No.: WG153981								
Prep Date1: 29-APR-09 Prep Date2: 05-MAY-09 Analyzed 06-May-09 05:15								

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: B2 17ft
Lab ID: L151437-6 (P153643-6)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Apr 17 2009, 10:00am Sample collector: SParker/Alisto
Date Received: Apr 22 2009, 09:22am Sample receiver: DNG
Sample Comments: Analyst Note: DIESEL GC/MS report DIESEL only; 8270 report NAPHTHALENE only.

Method Reference / Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix / RL/ML	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:ASE:GC/MS						Soil	
TARGET ANALYTES							
DIESEL	U	1.5	mg/kg	1	1.5		
MOTOR OIL COMPOSITE (C21-C32)	U	18	mg/kg	1	18		
INTERNAL STANDARD							
5-A-ANDROSTANE		148	% recovery	1			
Run ID: R183225 / Work Group No.: WG154137							
Prep Date1: 30-APR-09 Prep Date2: 06-MAY-09 Analyzed 06-May-09 22:20							
Method: EPA 8270C - Semivolatile Organics: GC/MS						Soil	
TARGET ANALYTES							
NAPHTHALENE	U	0.021	mg/kg	1	0.021		
INTERNAL STANDARD							
D8-NAPHTHALENE		87.0	% recovery	1	1		
SURROGATE							
2-FLUOROBIPHENYL		78	% recovery	1			
Run ID: R183102 / Work Group No.: WG153981							
Prep Date1: 29-APR-09 Prep Date2: 05-MAY-09 Analyzed 06-May-09 06:00							

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: B1W
Lab ID: L151437-7 (P153643-7)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Apr 17 2009, 09:30am Sample collector: SParker/Alisto
Date Received: Apr 22 2009, 09:22am Sample receiver: DNG
Sample Comments: Analyst Note: DIESEL GC/MS report DIESEL only; 8270 report NAPHTHALENE only.

Method Reference / Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	Matrix	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:L/L:GCMS							GroundH2O	
TARGET ANALYTES								
DIESEL	U	20	ug/L	1	20			
MOTOR OIL COMPOSITE (C21-C32)	U	260	ug/L	1	260			
INTERNAL STANDARD								
5-A-ANDROSTANE		152	% recovery	1				
Run ID: R183227 / Work Group No.: WG154138								
Prep Date1: 23-APR-09 Prep Date2: 06-MAY-09 Analyzed 06-May-09 22:46								
Method: EPA 8270C - Semivolatile Organics: GC/MS							GroundH2O	
TARGET ANALYTES								
NAPHTHALENE	U	0.21	ug/L	1.04	0.21			
INTERNAL STANDARD								
D8-NAPHTHALENE		82.2	% recovery	1	1			
SURROGATE								
2-FLUOROBIPHENYL		82	% recovery	1				
Run ID: R183108 / Work Group No.: WG153982								
Prep Date1: 23-APR-09 Prep Date2: 05-MAY-09 Analyzed 06-May-09 06:46								

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

Analytical Results Report

LSR#: B793-9512-1 TRENCH SPOILS PROGRAM
Site: SOUTH YARD South Area Service Center
Locator: MISC Miscellaneous sample, see sample comments for location
ClientID: B2W
Lab ID: L151437-8 (P153643-8)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Apr 17 2009, 10:30am Sample collector: SParker/Alisto
Date Received: Apr 22 2009, 09:22am Sample receiver: DNG
Sample Comments: Analyst Note: DIESEL GC/MS report DIESEL only; 8270 report NAPHTHALENE only.

Method Reference / Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix / RL/ML	Tag
Method: CALIFORNIA LUFT MANUAL - Diesel:L/L:GCMS						GroundH2O	
TARGET ANALYTES							
DIESEL	U	20	ug/L	1	20		
MOTOR OIL COMPOSITE (C21-C32)	U	260	ug/L	1	260		
INTERNAL STANDARD							
5-A-ANDROSTANE		142	% recovery	1			
Run ID: R183227 / Work Group No.: WG154138							
Prep Date1: 23-APR-09 Prep Date2: 06-MAY-09 Analyzed 06-May-09 23:12							
Method: EPA 8270C - Semivolatile Organics: GC/MS						GroundH2O	
TARGET ANALYTES							
NAPHTHALENE	U	0.21	ug/L	1.06	0.21		
INTERNAL STANDARD							
D8-NAPHTHALENE		85.8	% recovery	1	1		
SURROGATE							
2-FLUOROBIPHENYL		83	% recovery	1			
Run ID: R183108 / Work Group No.: WG153982							
Prep Date1: 23-APR-09 Prep Date2: 05-MAY-09 Analyzed 06-May-09 07:31							

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level