



August 12, 2004

ACEH received
8/13/04 RWS
FO-2526

Mr. Robert Schultz
Hazardous Services Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

**Re: Site Investigation Report and Well Installation Workplan
Atlantic Richfield Company Service Station #2107
3310 Park Boulevard
Oakland, California
Fuel Leak Case No. RO0002526
URS Project No. 38486908.0013601**

Dear Mr. Schultz:

At the request of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is pleased to submit this *Site Investigation Report and Well Installation Workplan* on the investigation of the lateral and vertical extent of soil and groundwater contamination at Atlantic Richfield Company Service Station #2107, located at 3310 Park Boulevard in Oakland, California (the Site, Figures 1 and 2). This report has been prepared in response to a directive letter from Alameda County Environmental Health (ACEH), dated April 15, 2003 (Attachment A) pursuant to the Regional Water Quality Control Board's authority under Section 13267 of the California Water Code. The letter requested that RM submit a report characterizing the extent of soil and groundwater contamination due to a release of fuel hydrocarbons discovered during the removal and replacement of gasoline product lines and dispensers on January 7, 2003. An Unauthorized Release Report was issued on January 21, 2003 (Attachment B).

1.0 SITE BACKGROUND

The background information and previous work conducted on and off Site was furnished to URS by RM. URS has relied on the information provided to prepare this document and is neither responsible for, nor has confirmed the accuracy of the information contained in the documents reviewed.

1.1 SITE DESCRIPTION

The Site is located at 3310 Park Boulevard in Oakland, California (Figures 1 and 2) and is an active gasoline service station. The Site is bound by East 34th Street to the north, Park



Boulevard to the west, and commercial buildings to the south and east. The majority of the property is concrete and asphalt paved.

Current Site structures include three double-walled fiberglass underground gasoline storage tanks (USTs), two pump islands with a total of eight dispensers, and a convenience store.

1.2 PREVIOUS WORK

In January of 1987, underground storage tanks were removed from the Site. Soil samples revealed elevated levels of benzene, toluene, ethylbenzene, and xylenes (BTEX) and free product was reported in the groundwater seeping into the excavation. In May 1989, Applied GeoSystems performed reconnaissance to evaluate the condition of the two existing Site wells (Applied GeoSystems, Inc., 1989). Free product was found in both (MW-1 and MW-2). Additional investigations were performed by GeoSystems in April and July 1990 (Applied GeoSystems, Inc., 1990). RESNA performed a subsurface investigation in June and October 1992 to further delineate the plume (RESNA, 1992).

A groundwater extraction and treatment (GWET) system began operating on January 25, 1993. The system utilized an aeration tank and activated carbon to treat the groundwater prior to discharging to the sanitary sewer. The system was shut down on May 9, 1995 due to low hydrocarbon removal rates. Pacific Environmental Group, Inc. presented the Site for closure in June 1996 based on the following:

- Affected soil was removed during tank and piping removals and
- The GWET system was effective in reducing dissolved hydrocarbons in groundwater.

ACEH confirmed no further action was required at the Site in the Remedial Action Completion Certification letter dated July 11, 1997. All remedial and monitoring equipment was removed from the Site. No additional environmental work was completed at the Site until product line removal and upgrade construction activities in October and November of 2002. Environmental soil samples collected along the product lines during the construction activities indicated a potential release and an Unauthorized Release Report was issued for the Site on January 21, 2003. Field activities are summarized in the URS Product Line Removal and Upgrade Soil Sampling Report dated January 31, 2003.

1.3 SITE HYDROGEOLOGY

The Site is underlain by gravel, gravelly clay, and silt fill from 0 to 5 feet below ground surface (bgs) and interbedded silty clay, clayey silt and silty sand from 5 to 30 feet (bgs) (RESNA 1992). Groundwater has been encountered at depths of 5.31 to 9.32 ft bgs. Historically, the groundwater flow direction beneath the Site has been to the northwest at a gradient of approximately 0.09 feet per foot.



1.4 SURFACE WATER

Based on the review of area topographic maps produced by the United States Geological Survey, two surface water bodies are located within a two-mile radius of the Site. Lake Merrit is located approximately 1.1 miles to the west of the Site and the San Francisco Bay is located approximately 1.8 miles to the west.

2.0 FIELD ACTIVITIES

Prior to initiating field activities, URS obtained necessary soil boring and excavation permits, prepared a Site-specific Health and Safety Plan (HASP) for the proposed work, cleared the Site for subsurface utilities, and completed the URS drilling checklist. Utility clearance included notifying Underground Service Alert (USA) a minimum of 48 hours prior to initiating the field investigation and securing the services of Cruz Brothers, a private utility locating company, to confirm the absence of underground utilities at each boring location.

The HASP was provided to all personnel and a copy of the HASP was on-site at all times. The subcontractor(s) performing field activities were provided with a copy of the HASP prior to initiating work. A safety tailgate meeting was conducted daily to review the hazards and the daily scope of work, including but not limited to drilling, utility clearance and general safety.

2.1 BORINGS

Six borings were completed under the supervision of URS field geologists with the use of an air knife and a drill rig equipped with a two-inch inner diameter direct-push set up. The air knife cleared boring locations to at least 5 ft bgs to avoid damaging utilities that may have been missed by USA or the private utility locator. The borings were then advanced to approximately 18 to 32 feet below ground surface (bgs) using a Geoprobe drill rig. Two borings (SB-4 and SB-6) were advanced to only 1.0 feet bgs. Sloughing of the subsurface sediments and the influx of shallow groundwater at these two locations prevented clearing of the locations to five feet using the required airknifing or hand auguring methods. Continuous core soil sampling was done for lithologic description and chemical analysis of soils at approximately five-foot intervals and when changes in lithology were encountered. Field screening of hydrocarbons included visual and olfactory observations and portable photoionization detector (PID) measurements.

2.1.1 Soil Sampling and Analyses

As requested by ACEH, URS collected soil samples for chemical analysis based on field screening of sample location, lithology, odor, and color. Criteria for sample collection included any changes in lithology or any indication of the potential presence of petroleum hydrocarbons. Each soil sample was covered at each end with Teflon™ sheeting, capped with plastic end caps, labeled, and placed in an ice-filled cooler for preservation. Sample labels included sample name, sample depth interval, sampling time and date, analytical methods and



sampler's initials. All samples were transported under chain-of-custody protocol to STL, a California State-certified analytical laboratory. Soil samples were analyzed for Gasoline Range Organics (GRO), BTEX, fuel oxygenates, and lead scavengers using EPA Method 8260B.

2.1.2 Groundwater Sampling and Analyses

A grab groundwater sample was collected from each boring when possible. Samples were collected from the bottom of the boring using disposable bailers. Groundwater recovered with the disposable bailer was poured into VOAs, sealed immediately and labeled. Samples were stored in a cooler packed with ice. Groundwater samples were analyzed for GRO, BTEX, fuel oxygenates, and lead scavengers using EPA Method 8260B

2.2 DECONTAMINATION

Drilling and sampling equipment was decontaminated to prevent cross-contamination of the soil and groundwater samples. Equipment was decontaminated before work began and after each use unless disposable equipment was used. Decontamination was done in two phases, as described below:

The drill rig, downhole drilling and sampling equipment, and other associated equipment were decontaminated prior to arrival at the Site. Sampling equipment was decontaminated during and after field activities by scrubbing with an Alconox and water solution in a five gallon bucket followed by two successive rinses with potable water in two five gallon buckets.

2.3 WASTE DISPOSAL

Investigation-derived wastes, which include soil cuttings and decontamination water, were temporarily stored on-site in 55-gallon, DOT-approved 17H drums, pending characterization and disposal. URS coordinated the transportation and disposal of the soil and groundwater at a California regulated facility.

3.0 RESULTS

3.1 Soil Analytical Results

A total of twenty soil samples from the six boring locations were submitted to Severn-Trent Laboratories (STL) for analyzed for GRO, BTEX, fuel oxygenates, and lead using EPA Method 8260B. Soil analytical results are presented in Table 1. Copies of laboratory analytical reports and chain-of-custody records are presented in Attachment C.

Soil analytical results are summarized as follows:

- GRO were detected above the laboratory reporting limit in one sample (SB-4-1.0 at 1.0 feet bgs) at a concentration of 350 milligrams per kilogram (mg/kg).
- Toluene and xylene were detected above the laboratory reporting limit in one sample (SB-1-5 at 5 feet bgs) with concentrations of 0.096 mg/kg and 0.016 mg/kg, respectively. Neither benzene nor ethylbenzene were detected above the laboratory reporting limit in any of the samples collected during this investigation.
- MTBE was detected above the laboratory reporting limit in three samples at concentrations ranging from 0.024 mg/kg (SB-3-8.0) to 0.027 mg/kg (SB-3-13 and SB-3-23).
- Tert-Butyl Alcohol (TBA) was detected above the laboratory reporting limit in three samples at concentrations ranging from 0.016 mg/kg (SB-5-16) to 0.29 mg/kg (SB-3-23).
- Tert-Amyl Methyl Ether (TAME) was detected above the laboratory reporting limit in one sample at a concentration of 0.0066 mg/kg (SB-5-19)

3.2 Groundwater Analytical Data

As requested by ACEH, URS submitted four groundwater samples (SB-1, SB-2, SB-3, and SB-5) to STL for chemical analysis. Samples were analyzed for GRO, BTEX, fuel oxygenates, and lead using EPA Method 8260B. Groundwater analytical results are presented in Table 2. Copies of laboratory analytical reports and chain-of-custody records are presented in Attachment C.

Groundwater analytical results are summarized as follows:

- GRO were detected above the laboratory reporting limit in one sample (SB-3 at 32.0 feet bgs) at a concentration of 88 micrograms per liter ($\mu\text{g/L}$).
- Toluene was detected above the laboratory reporting limit in one sample (SB-2 at 23.0 feet bgs) a concentration of 1.4 $\mu\text{g/L}$. Benzene, ethylbenzene, and xylenes were not detected above their respective laboratory reporting limits in any of the groundwater samples collected during this investigation at the Site.
- MTBE was detected above the laboratory reporting limit in two samples at a concentration of 34 $\mu\text{g/L}$ (SB-3 at 32 feet bgs and SB-5 at 19.5 feet bgs).
- Tert-Butyl Alcohol (TBA) was detected above the laboratory reporting limit in two samples at concentrations of 45 $\mu\text{g/L}$ (SB-5 at 19.5 feet bgs) and 110 $\mu\text{g/L}$ (SB-3 at 32 feet bgs).
- Tert-Amyl Methyl Ether (TAME) was detected above the laboratory reporting limit in one sample at a concentration of 1.1 $\mu\text{g/L}$ (SB-3 at 32 feet bgs)

4.0 RECOMMENDATIONS

URS proposes installing three groundwater monitoring wells. The proposed locations are based on data from the most recent investigation as well as information in the Product Line Removal and Upgrade Soil Sampling Report (URS, 2003). The proposed locations are shown on Figure 2.

4.1 Well Installation

Based on soil boring locations and soil analytical data, three 4-inch diameter monitoring wells will be installed onsite (Figure 2). Monitoring well MW-1 will be installed upgradient of the UST complex, product lines, and dispensers to characterize groundwater conditions and to help establish a hydraulic gradient across the Site. MW-2 and MW-3 will be installed downgradient of the UST complex, product lines, and dispensers. The wells will be constructed of Schedule 40 PVC with 0.010-inch slotted screen from approximately 5 to 20 ft bgs. The exact depth and screen length of the new wells will be determined, based on the lithology of the boring, by an experienced URS field geologist. A filter pack consisting of No. 2/12 sand will be installed to 1 to 2 feet above the top of each well screen, which will be overlain by 1 to 2 feet of bentonite, and bentonite-cement grout to the surface. A traffic-rated vault-box will be installed to protect each well. A typical monitoring well construction diagram is located in Attachment D. After the completion of the wellhead fittings, the monitoring wells will be surveyed. A California-licensed land surveyor will be scheduled to survey the top-of-casing elevations with respect to mean sea level (NAVD '88) and for horizontal coordinates.

4.2 Well Development

Within 48 hours after well installation, the new monitoring wells will be developed. The process will consist of surging and bailing each well to remove fine-grained sediments from the well and sand pack. Periodic measurements of pH, conductivity, temperature, and turbidity will be recorded during development. If a well contains free product, it will not be sampled and free product will be removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations. A minimum of three and a maximum of ten casing volumes of groundwater will be removed until water quality parameters have stabilized. All purge water generated during well development will be properly disposed of offsite at a California regulated facility.

4.3 Well Sampling

The wells will be sampled no sooner than 48 hours after well development. The sampling procedure consists first of measuring the depth to water. If free phase petroleum product (free product) is present, depth of free product will be gauged with an electronic oil-water interface probe and removed with a dedicated disposable bailer. Total depth will also be measured and the water level meter tape will be decontaminated after gauging each well. If the well does not contain free product, it will be purged of approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. During purging, temperature, pH, and electrical conductivity will be monitored to



document that these parameters are stable prior to collecting samples. After purging, water levels will be allowed to recover to at least 80% of pre-purge levels. Groundwater samples will be collected using a disposable bailer, placed into appropriate Environmental Protection Agency (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California state certified laboratory. Sample labels will include sample name, sampling time and date, analytical methods and sampler's initials. The wells will be put on a quarterly sampling program.

Groundwater samples will be analyzed for the following: GRO, BTEX, MTBE, DIPE, TAME, ETBE, and TBA using EPA Method 8260B.

4.4 Well Installation Report

Upon completion of field activities and receipt of all laboratory analytical data, URS will prepare provide ACEH with a well installation report. The well installation report will include boring logs, well construction diagrams, analytical results and interpretation and recommendations for additional work, if necessary.

4.5 Proposed Schedule

Upon receiving written approval of this Work Plan from the ACEH, URS will proceed with the proposed work. URS will obtain all necessary permits to complete the proposed work. URS anticipates submitting the well installation report to the ACEH within 60 days of receipt of all laboratory analytical results from drilling activities.

We appreciate the opportunity to submit this Work Plan to the ACEH and trust that this document meets with your approval. Please notify us of your approval as soon as practical. If you have any questions or concerns, feel free to contact us at (510) 893-3600.

URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C.Hg.
Senior Geologist

cc: Mr. Paul Supple, RM, (Electronic copy uploaded to ENFOS)



Attachments: Table 1 - Soil Analytical Data
Table 2- Groundwater Analytical Data
Figure 1 - Site Location Map
Figure 2 - Proposed Well Installation Locations
Attachment A – Alameda County Environmental Health Agency (April 15, 2003)
Attachment B – Unauthorized Release Report (January 21, 2003)
Attachment C – Laboratory Procedures and Results
Attachment D – Typical Monitoring Well Construction Diagram
Attachment E – Soil Boring Logs

References:

Applied GeoSystems, Inc., 1989.

Applied GeoSystems, Inc., 1990.

RESNA, 1992. Subsurface Environmental Investigation, ARCO Station 2107, Oakland, CA.
RESNA and Associates. December 30, 1990.

URS, 2003. Product Line Removal and Upgrade Soil Sampling Report, ARCO Service
Station No. 2107, 3310 Park Boulevard, Oakland, California. URS Corporation. January 31,
2003.

Table 1
Soil Analytical Data
Atlantic Richfield Company Service Station #2107
3310 Park Blvd, Oakland, CA

Soil Sample ID	Sample Depth (feet bgs)	Date Sampled	GRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	t-Butyl Alcohol (TBA) (mg/kg)	MTBE (mg/kg)	Diisopropal Alcohol (DIPE) (mg/kg)	Ethyl-t-Butyl-Ether (ETBE) (mg/kg)	t-Amyl Methyl Ether (TAME) (mg/kg)	Ethanol (mg/kg)
SB-1-5	5	3/30/04	ND<1.2	ND<0.0061	0.096	ND<0.0061	0.016	ND<0.012	ND<0.0061	ND<0.012	ND<0.0061	ND<0.0061	ND<0.1
SB-1-10	10	3/30/04	ND<1.3	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.013	ND<0.0063	ND<0.013	ND<0.0063	ND<0.0063	ND<0.1
SB-1-15	15	3/30/04	ND<1.2	ND<0.0059	ND<0.0059	ND<0.0059	ND<0.0059	ND<0.012	ND<0.0059	ND<0.012	ND<0.0059	ND<0.0059	ND<0.1
SB-1-18	18	3/30/04	ND<1.2	ND<0.0059	ND<0.0059	ND<0.0059	ND<0.0059	ND<0.012	ND<0.0059	ND<0.012	ND<0.0059	ND<0.0059	ND<0.1
SB-2-5	5	3/30/04	ND<1.3	ND<0.0067	ND<0.0067	ND<0.0067	ND<0.0067	ND<0.013	ND<0.0067	ND<0.013	ND<0.0067	ND<0.0067	ND<0.1
SB-2-10	10	3/30/04	ND<1.2	ND<0.0061	ND<0.0061	ND<0.0061	ND<0.0061	ND<0.012	ND<0.0061	ND<0.012	ND<0.0061	ND<0.0061	ND<0.1
SB-2-15	15	3/30/04	ND<1.2	ND<0.0060	ND<0.0060	ND<0.0060	ND<0.0060	ND<0.012	ND<0.0060	ND<0.012	ND<0.0060	ND<0.0060	ND<0.1
SB-2-20	20	3/30/04	ND<1.2	ND<0.0062	ND<0.0062	ND<0.0062	ND<0.0062	ND<0.012	ND<0.0062	ND<0.012	ND<0.0062	ND<0.0062	ND<0.1
SB-2-23	23	3/30/04	ND<1.2	ND<0.0060	ND<0.0060	ND<0.0060	ND<0.0060	ND<0.012	ND<0.0060	ND<0.012	ND<0.0060	ND<0.0060	ND<0.1
SB-3-8.0	8.0	5/7/04	ND< 1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.024	ND<0.01	ND<0.0050	ND<0.0050	ND<0.1
SB-3-13	13.0	5/7/04	ND< 1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.027	ND<0.01	ND<0.0050	ND<0.0050	ND<0.1
SB-3-18	18.0	5/7/04	ND< 1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	0.19	ND<0.0050	ND<0.01	ND<0.0050	ND<0.0050	ND<0.1
SB-3-23.0	23.0	5/7/04	ND< 1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	0.29	0.027	ND<0.01	ND<0.0050	ND<0.0050	ND<0.1
SB-3-26.5	26.5	5/7/04	ND< 1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.01	ND<0.0050	ND<0.0050	ND<0.1
SB-3-31.0	31	5/7/04	ND< 1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.01	ND<0.0050	ND<0.0050	ND<0.1
SB-4-1.0	1	5/7/04	350	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<25
SB-5-8	8.0	3/30/04	ND<1.1	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.011	ND<0.0056	ND<0.011	ND<0.0056	ND<0.0056	ND<0.1
SB-5-16	16.0	3/30/04	ND<1.3	ND<0.0065	ND<0.0065	ND<0.0065	ND<0.0065	0.016	ND<0.0065	ND<0.013	ND<0.0065	0.0066	ND<0.1
SB-5-19	19.0	3/30/04	ND<1.2	ND<0.0059	ND<0.0059	ND<0.0059	ND<0.0059	ND<0.012	ND<0.0059	ND<0.012	ND<0.0059	ND<0.0059	ND<0.1
SB-6-1.0	1.0	5/7/04	ND< 1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.01	ND<0.0050	ND<0.0050	ND<0.1

Notes:

- 1) Groundwater samples analyzed by EPA method 8260B.
- 2) Concentrations above laboratory reporting limits in **bold**.

GRO = Gasoline Range Organics
bgs = below ground surface
mg/kg = milligrams per kilogram
MTBE = Methyl Tertiary Butyl Ether.
ND< = Less than stated laboratory detection limit.

Table 2
Groundwater Analytical Data
Atlantic Richfield Company Service Station #2107
3310 Park Blvd, Oakland, CA

Water Sample ID	Sample Depth (feet bgs)	Date Sampled	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	t-Butyl Alcohol (TBA) (µg/L)	MTBE (µg/L)	Diisopropal Alcohol (DIPE) (µg/L)	Ethyl-t-Butyl Ether (ETBE) (µg/L)	tert-Amyl Methyl Ether (TAME) (µg/L)	Ethanol (µg/L)
SB-1	18.5	3/30/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<50
SB-2	23.0	3/30/04	ND<50	ND<0.50	1.4	ND<0.50	ND<1.0	ND<5.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<50
SB-3	32.0	5/7/04	88	ND<0.50	ND<0.50	ND<0.50	ND<1.0	110	34	ND<1.0	ND<0.50	1.1	ND<50
SB-5	19.5	3/30/04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	45	34	ND<1.0	ND<0.50	ND<0.50	ND<50

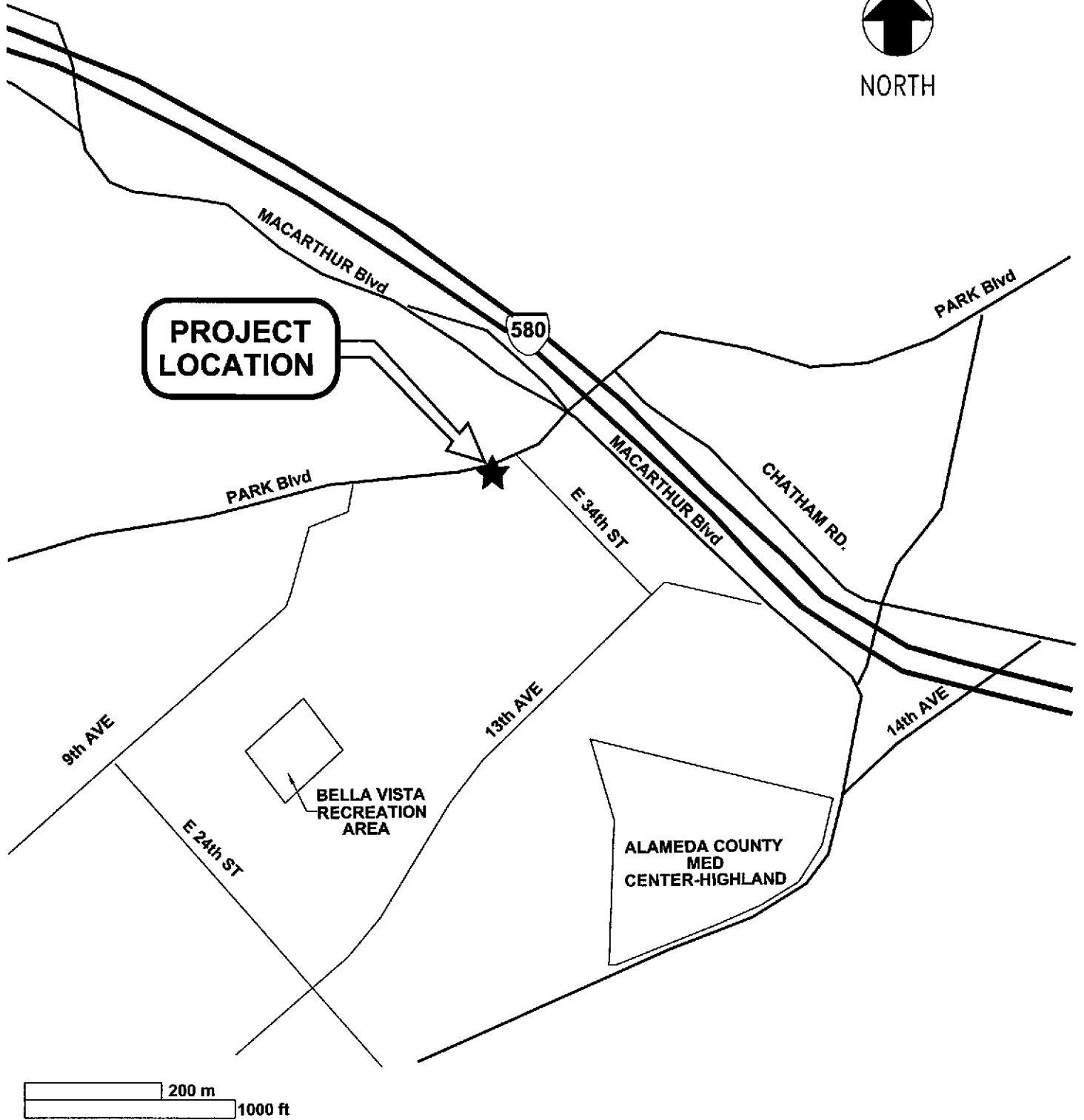
Notes:

- 1) Groundwater samples analyzed by EPA method 8260B.
- 2) Concentrations above laboratory reporting limits in **bold**.

GRO = Gasoline Range Organics
bgs = below ground surface
(mg/L) = micrograms per litre
MTBE = methyl tertiary butyl ether.
ND< = Less than stated laboratory detection limit.



NORTH



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Project No. 38486908
 ARCO Service Station 2107
 3310 Park Boulevard
 Oakland, California

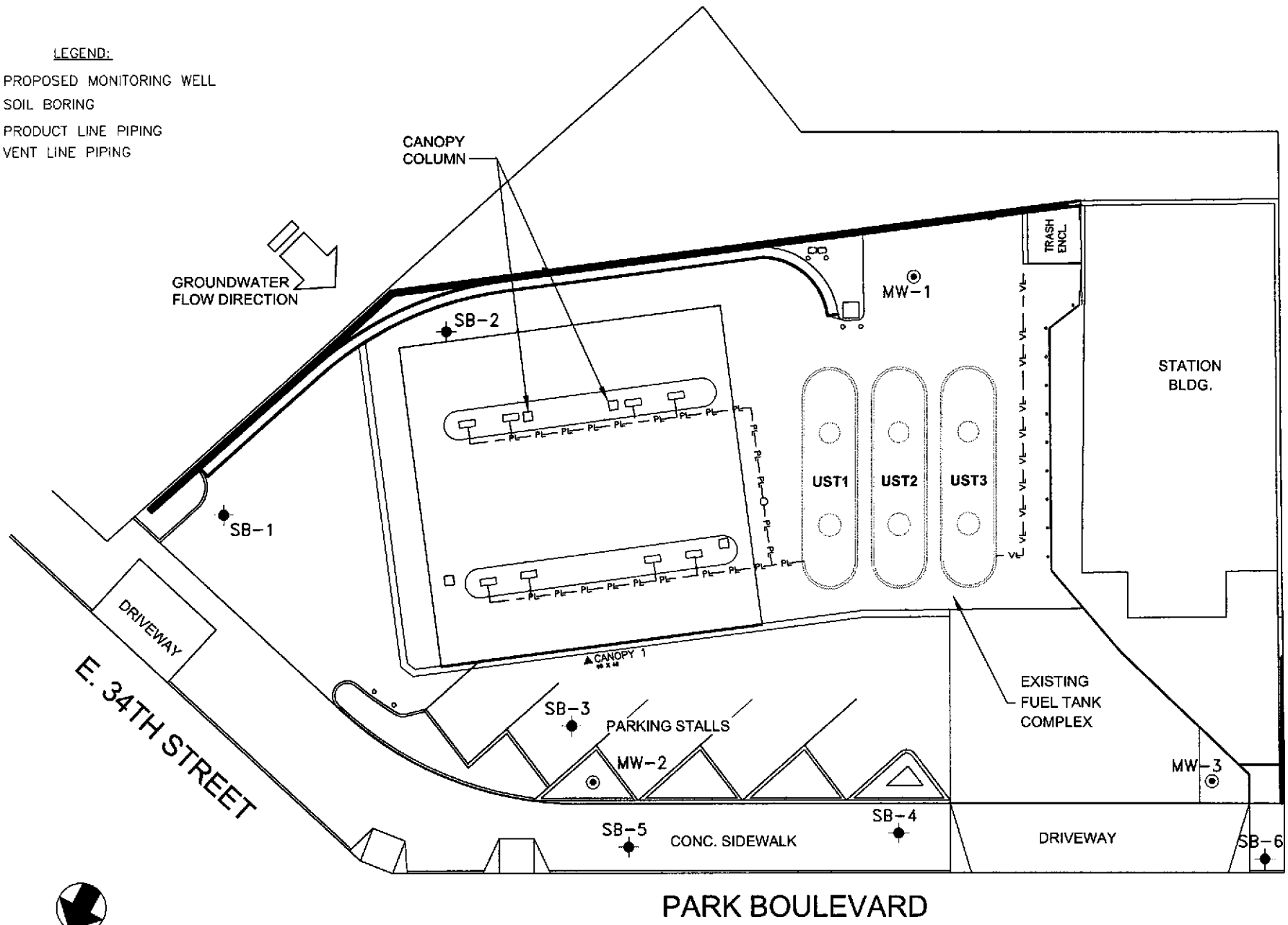
SITE LOCATION MAP

FIGURE

1

LEGEND:

- ⊙ PROPOSED MONITORING WELL
- ◆ SOIL BORING
- PL — PRODUCT LINE PIPING
- VL — VENT LINE PIPING



URS	Project No. 38486908	SOIL BORING LOCATIONS AND PROPOSED MONITORING WELL LOCATIONS	FIGURE 2
	ARCO Service Station 2107 3310 Park Boulevard Oakland, California		

ATTACHMENT A

**ALAMEDA COUNTY ENVIRONMENTAL HEALTH AGENCY
LETTER (APRIL 15, 2003)**

**ALAMEDA COUNTY
HEALTH CARE SERVICES****AGENCY**
DAVID J. KEARS, Agency Director**ENVIRONMENTAL HEALTH SERVICES**
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

January 9, 2004

Paul Supple
Atlantic Richfield Co.
P.O. Box 6549
Moraga, CA 94570

Dear Mr. Supple:

Subject: Fuel Leak Case No. RO0002526, Arco #2107, 3310 Park Blvd., Oakland, CA
94610

Alameda County Environmental Health (ACEH) staff has reviewed "Work Plan for Additional Investigation" dated June 11, 2003 and "Addendum to Work Plan for Additional Investigation" dated October 29, 2003, both prepared by URS Corp. 10 "Geoprobe" borings are proposed to better characterize to subsurface conditions prior to the installation of monitoring wells. We generally concur with the work proposed. We request that you address the following technical comments and send us the technical reports requested below.

TECHNICAL COMMENTS**1) Soil Sampling -**

a) Instead of collecting soil boring samples every 5 ft., as proposed, soil samples shall be collected at a minimum of every 5 ft., including at changes of lithology, at the soil/groundwater interface, and at areas of obvious contamination. Log borings.

b) The borings will be advanced to a sufficient depth to collect water samples. However, the borings may need to extend deeper until impervious soil is encountered.

Please revise your proposal for soil sampling and include in the Work Plan Addendum requested below.

2) Soil and Groundwater Analyses - In addition to the analyses proposed, we request that you also include Ethanol by EPA Method 8260 for groundwater analyses, and the lead scavengers, Ethylene Dibromide (EDB), Ethylene Dichloride (EDC) for soil and groundwater analyses. As with the fuel oxygenates, if any of the latter compounds are detected, and are determined to be of concern (poses a risk to human health, the environment, or water resources) it is to be incorporated into your regular monitoring plan. Please include these revisions in the Work Plan Addendum requested below.

Mr. Supple
January 9, 2004
Page 2 of 2

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Don Hwang), according to the following schedule:

March 9, 2004 - Workplan Addendum
60 days after Work Plan approval - Soil and Water Investigation Report

These reports are being requested pursuant to the Regional Water Quality Control Board's (Regional Board) authority under Section 13267 of the California Water Code. If you have any questions, please call me at (510) 567-6746.

Sincerely,



Don Hwang
Hazardous Materials Specialist
Local Oversight Program

C: Scott Robinson, URS Corp., 55 S. Market St., Suite 1500, San Jose, CA 95113
Donna Drogos
file

ATTACHMENT B
UNAUTHORIZED RELEASE REPORT (JANUARY 21, 2003)



BP West Coast Products LLC
4 Centerpointe Drive, LPR4-451
La Palma, California 90623-1066

Mailing Address: Box 6038
Artesia, CA 90702-6038

Voice (530) 308-0495
Fax (209) 744-2871
Email SchettJ1@bp.com

Tuesday, January 21, 2003
11:04 AM

via Facsimile

Alameda County Environmental Health
1131 Harbor Bay Parkway, #240
Alameda, CA 94502-6577
Attention: Mr. Ariu Levi
FAX: (510) 337-9335

Re: ARCO Facility No. 2107

Dear Mr. Levi:

With this, I am transmitting an Underground Storage Tank Unauthorized Release Report in connection with an incident at the facility noted above. Please feel free to call me at (530) 308-0495 with any questions.

Best regards,

John Schetter
Environmental Compliance Specialist
BP West Coast Retail Unit

c: San Francisco Bay Regional Water Quality Region 2
Terri Harlan / LPR4-464
File

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UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTIONS SHEET ON THE BACK PAGE OF THIS FORM
REPORT DATE 0 1 2 0 0 3 M M D D Y Y	CASE #	

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT John Schetter	PHONE (530) 308-0495	SIGNATURE	
	<input type="checkbox"/> REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD	COMPANY OR AGENCY NAME BP West Coast Products LLC	
	ADDRESS Four Centerpointe Drive, LPR4-460			La Palma CITY CA STATE 90623 ZIP

RESPONSIBLE PARTY	NAME BP West Coast Products LLC	CONTACT PERSON John Schetter	PHONE (530) 308-0495
	<input type="checkbox"/> UNKNOWN ADDRESS Four Centerpointe Drive, LPR4-451	La Palma CITY CA STATE 90623 ZIP	

SITE LOCATION	FACILITY NAME (IF APPLICABLE) Arco Facility No. 2107	OPERATOR NHON HA	PHONE 510-532-1716	
	ADDRESS 3310 PARK BLVD	Oakland CITY Alameda COUNTY 94610 ZIP		
	CROSS STREET Macarthur Blvd.			

EMITTING AGENCIES	LOCAL AGENCY Alameda County Environmental Health	AGENCY NAME	CONTACT PERSON Ariu Levi	PHONE (510) 567-6862
	REGIONAL BOARD California Regional Water Quality Board 2			PHONE (510) 622-2460

SUBSTANCE INVOLVED	(1) NAME Gasoline	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2)	<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 0 1 2 0 0 3 M M D D Y Y	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER Line Replacement	<input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS
	DATE DISCHARGE BEGAN M M D D Y Y	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER Replace product piping	
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 0 1 2 0 0 3 M M D D Y Y	<input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE	

SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> PIPING LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> SPILL <input type="checkbox"/> OTHER
--------------	--	--

CASE TYPE	CHECK ONLY ONE <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)
-----------	--

CURRENT STATUS	CHECK ONLY ONE <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input checked="" type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> CLEANUP UNDERWAY
----------------	--

MEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input checked="" type="checkbox"/> OTHER TBD <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GR) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VENT SOIL (VS)
---------------	--

COMMENT: MtBE detected in soil sample S-D-7.5 @ 19 ppm. A soil report for the line upgrade will be issued soon.

ATTACHMENT C

**LABORATORY PROCEDURES,
CERTIFIED ANALYTICAL REPORTS,
AND CHAIN-OF-CUSTODY RECORDS**

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by Atlantic Richfield Company have been reviewed and verified by that laboratory.

URS-Oakland, CA

May 20, 2004

1333 Broadway, Suite 800
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486908

Project: BP Facility No: 2107

Site: 3310 Park Blvd., Oakland, CA

Attached is our report for your samples received on 05/07/2004 17:05
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

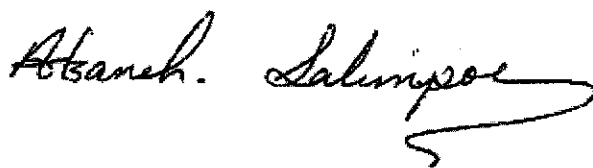
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after
06/21/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: asalimpour@stl-inc.com

Sincerely,



Afsaneh Salimpour
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

URS-Oakland, CA

May 20, 2004

1333 Broadway, Suite 800
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486908

Project: BP Facility No: 2107

Site: 3310 Park Blvd., Oakland, CA

Case Narrative

General and Sample Comments

We (STL San Francisco) received 9 Soil samples and 1 Water samples , on Friday, May 07, 2004 5:05 PM.

Analysis Comments and Flags by QC Batch

Gas/BTEXFuel Oxygenates by 8260B (High Level)	Soil	QC Batch#: 200405133A69
---	------	-------------------------

SB-4-1.0

2004-05-0261-002

Compound Flag(s)

g Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-6-1.0	05/07/2004 11:30	Soil	1
SB-3-8.0	05/07/2004 09:00	Soil	3
SB-3-13.0	05/07/2004 09:10	Soil	4
SB-3-18.0	05/07/2004 09:15	Soil	5
SB-3-23.0	05/07/2004 09:20	Soil	6
SB-3-26.5	05/07/2004 09:30	Soil	7
SB-3-31.0	05/07/2004 09:40	Soil	8
DRUM	05/07/2004 14:30	Soil	9

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/08/2004 09:17

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-6-1.0	Lab ID: 2004-05-0261 - 1
Sampled: 05/07/2004 11:30	Extracted: 5/14/2004 08:45
Matrix: Soil	QC Batch#: 2004/05/14-1C.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/14/2004 08:45	
Benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 08:45	
Toluene	ND	0.0050	mg/Kg	1.00	05/14/2004 08:45	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 08:45	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/14/2004 08:45	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/14/2004 08:45	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/14/2004 08:45	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/14/2004 08:45	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/14/2004 08:45	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/14/2004 08:45	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/14/2004 08:45	
EDB	ND	0.0050	mg/Kg	1.00	05/14/2004 08:45	
Ethanol	ND	0.1	mg/Kg	1.00	05/14/2004 08:45	
Surrogate(s)						
1,2-Dichloroethane-d4	88.8	72-124	%	1.00	05/14/2004 08:45	
Toluene-d8	98.9	75-116	%	1.00	05/14/2004 08:45	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/18/2004 14:12

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-3-8.0	Lab ID:	2004-05-0261 - 3
Sampled:	05/07/2004 09:00	Extracted:	5/14/2004 09:03
Matrix:	Soil	QC Batch#:	2004/05/14-1C.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/14/2004 09:03	
Benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:03	
Toluene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:03	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:03	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/14/2004 09:03	
tert-Butyl alcohol (TBA)	0.11	0.010	mg/Kg	1.00	05/14/2004 09:03	
Methyl tert-butyl ether (MTBE)	0.024	0.0050	mg/Kg	1.00	05/14/2004 09:03	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/14/2004 09:03	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/14/2004 09:03	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/14/2004 09:03	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/14/2004 09:03	
EDB	ND	0.0050	mg/Kg	1.00	05/14/2004 09:03	
Ethanol	ND	0.1	mg/Kg	1.00	05/14/2004 09:03	
Surrogate(s)						
1,2-Dichloroethane-d4	84.0	70-121	%	1.00	05/14/2004 09:03	
Toluene-d8	98.2	81-117	%	1.00	05/14/2004 09:03	

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05/18/2004 14:12

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-3-13.0	Lab ID:	2004-05-0261 - 4
Sampled:	05/07/2004 09:10	Extracted:	5/14/2004 09:21
Matrix:	Soil	QC Batch#:	2004/05/14-1C.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/14/2004 09:21	
Benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:21	
Toluene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:21	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:21	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/14/2004 09:21	
tert-Butyl alcohol (TBA)	0.12	0.010	mg/Kg	1.00	05/14/2004 09:21	
Methyl tert-butyl ether (MTBE)	0.027	0.0050	mg/Kg	1.00	05/14/2004 09:21	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/14/2004 09:21	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/14/2004 09:21	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/14/2004 09:21	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/14/2004 09:21	
EDB	ND	0.0050	mg/Kg	1.00	05/14/2004 09:21	
Ethanol	ND	0.1	mg/Kg	1.00	05/14/2004 09:21	
Surrogate(s)						
1,2-Dichloroethane-d4	87.1	70-121	%	1.00	05/14/2004 09:21	
Toluene-d8	98.2	81-117	%	1.00	05/14/2004 09:21	

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05/18/2004 14:12

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-3-18.0	Lab ID: 2004-05-0261 - 5
Sampled: 05/07/2004 09:15	Extracted: 5/14/2004 09:39
Matrix: Soil	QC Batch#: 2004/05/14-1C.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/14/2004 09:39	
Benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:39	
Toluene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:39	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:39	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/14/2004 09:39	
tert-Butyl alcohol (TBA)	0.19	0.010	mg/Kg	1.00	05/14/2004 09:39	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/14/2004 09:39	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/14/2004 09:39	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/14/2004 09:39	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/14/2004 09:39	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/14/2004 09:39	
EDB	ND	0.0050	mg/Kg	1.00	05/14/2004 09:39	
Ethanol	ND	0.1	mg/Kg	1.00	05/14/2004 09:39	
Surrogate(s)						
1,2-Dichloroethane-d4	86.8	70-121	%	1.00	05/14/2004 09:39	
Toluene-d8	94.7	81-117	%	1.00	05/14/2004 09:39	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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05/18/2004 14:12

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-3-23.0	Lab ID:	2004-05-0261 - 6
Sampled:	05/07/2004 09:20	Extracted:	5/14/2004 09:57
Matrix:	Soil	QC Batch#:	2004/05/14-1C.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/14/2004 09:57	
Benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:57	
Toluene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 09:57	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/14/2004 09:57	
tert-Butyl alcohol (TBA)	0.29	0.010	mg/Kg	1.00	05/14/2004 09:57	
Methyl tert-butyl ether (MTBE)	0.027	0.0050	mg/Kg	1.00	05/14/2004 09:57	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/14/2004 09:57	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/14/2004 09:57	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/14/2004 09:57	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/14/2004 09:57	
EDB	ND	0.0050	mg/Kg	1.00	05/14/2004 09:57	
Ethanol	ND	0.1	mg/Kg	1.00	05/14/2004 09:57	
Surrogate(s)						
1,2-Dichloroethane-d4	85.2	70-121	%	1.00	05/14/2004 09:57	
Toluene-d8	96.4	81-117	%	1.00	05/14/2004 09:57	

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/18/2004 14:12

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-3-26.5	Lab ID:	2004-05-0261 - 7
Sampled:	05/07/2004 09:30	Extracted:	5/14/2004 10:33
Matrix:	Soil	QC Batch#:	2004/05/14-1C.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/14/2004 10:33	
Benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 10:33	
Toluene	ND	0.0050	mg/Kg	1.00	05/14/2004 10:33	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/14/2004 10:33	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/14/2004 10:33	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/14/2004 10:33	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/14/2004 10:33	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/14/2004 10:33	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/14/2004 10:33	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/14/2004 10:33	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/14/2004 10:33	
EDB	ND	0.0050	mg/Kg	1.00	05/14/2004 10:33	
Ethanol	ND	0.1	mg/Kg	1.00	05/14/2004 10:33	
Surrogate(s)						
1,2-Dichloroethane-d4	92.6	70-121	%	1.00	05/14/2004 10:33	
Toluene-d8	96.4	81-117	%	1.00	05/14/2004 10:33	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/08/2004 09:17

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-3-31.0	Lab ID:	2004-05-0261 - 8
Sampled:	05/07/2004 09:40	Extracted:	5/18/2004 03:19
Matrix:	Soil	QC Batch#:	2004/05/17-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/18/2004 03:19	
Benzene	ND	0.0050	mg/Kg	1.00	05/18/2004 03:19	
Toluene	ND	0.0050	mg/Kg	1.00	05/18/2004 03:19	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/18/2004 03:19	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/18/2004 03:19	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/18/2004 03:19	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/18/2004 03:19	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/18/2004 03:19	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/18/2004 03:19	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/18/2004 03:19	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/18/2004 03:19	
EDB	ND	0.0050	mg/Kg	1.00	05/18/2004 03:19	
Ethanol	ND	0.1	mg/Kg	1.00	05/18/2004 03:19	
Surrogate(s)						
1,2-Dichloroethane-d4	104.9	70-121	%	1.00	05/18/2004 03:19	
Toluene-d8	108.3	81-117	%	1.00	05/18/2004 03:19	

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05/18/2004 14:12

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	DRUM	Lab ID:	2004-05-0261 - 9
Sampled:	05/07/2004 14:30	Extracted:	5/18/2004 12:57
Matrix:	Soil	QC Batch#:	2004/05/18-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/18/2004 12:57	
Benzene	ND	0.0050	mg/Kg	1.00	05/18/2004 12:57	
Toluene	ND	0.0050	mg/Kg	1.00	05/18/2004 12:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/18/2004 12:57	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/18/2004 12:57	
tert-Butyl alcohol (TBA)	0.16	0.010	mg/Kg	1.00	05/18/2004 12:57	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/18/2004 12:57	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/18/2004 12:57	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/18/2004 12:57	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/18/2004 12:57	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/18/2004 12:57	
EDB	ND	0.0050	mg/Kg	1.00	05/18/2004 12:57	
Ethanol	ND	0.1	mg/Kg	1.00	05/18/2004 12:57	
Surrogate(s)						
1,2-Dichloroethane-d4	97.1	70-121	%	1.00	05/18/2004 12:57	
Toluene-d8	105.8	81-117	%	1.00	05/18/2004 12:57	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Method Blank			Soil		
MB: 2004/05/14-1C.69-034			QC Batch # 2004/05/14-1C.69		
			Date Extracted: 05/14/2004 07:34		
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	05/14/2004 07:34	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	05/14/2004 07:34	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	05/14/2004 07:34	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	05/14/2004 07:34	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	05/14/2004 07:34	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	05/14/2004 07:34	
1,2-DCA	ND	0.0050	mg/Kg	05/14/2004 07:34	
EDB	ND	0.0050	mg/Kg	05/14/2004 07:34	
Benzene	ND	0.0050	mg/Kg	05/14/2004 07:34	
Toluene	ND	0.0050	mg/Kg	05/14/2004 07:34	
Ethyl benzene	ND	0.0050	mg/Kg	05/14/2004 07:34	
Total xylenes	ND	0.0050	mg/Kg	05/14/2004 07:34	
Ethanol	ND	0.10	mg/Kg	05/14/2004 07:34	
Surrogates(s)					
1,2-Dichloroethane-d4	85.5	72-124	%	05/14/2004 07:34	
Toluene-d8	96.3	75-116	%	05/14/2004 07:34	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

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Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Soil	QC Batch # 2004/05/17-2B.62
MB: 2004/05/17-2B.62-027		Date Extracted: 05/17/2004 19:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	05/17/2004 19:27	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	05/17/2004 19:27	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	05/17/2004 19:27	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	05/17/2004 19:27	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	05/17/2004 19:27	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	05/17/2004 19:27	
1,2-DCA	ND	0.0050	mg/Kg	05/17/2004 19:27	
EDB	ND	0.0050	mg/Kg	05/17/2004 19:27	
Benzene	ND	0.0050	mg/Kg	05/17/2004 19:27	
Toluene	ND	0.0050	mg/Kg	05/17/2004 19:27	
Ethyl benzene	ND	0.0050	mg/Kg	05/17/2004 19:27	
Total xylenes	ND	0.0050	mg/Kg	05/17/2004 19:27	
Ethanol	ND	0.10	mg/Kg	05/17/2004 19:27	
Surrogates(s)					
1,2-Dichloroethane-d4	89.8	72-124	%	05/17/2004 19:27	
Toluene-d8	102.5	75-116	%	05/17/2004 19:27	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Soil	QC Batch # 2004/05/18-1B.62
MB: 2004/05/18-1B.62-000		Date Extracted: 05/18/2004 08:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	05/18/2004 08:00	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	05/18/2004 08:00	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	05/18/2004 08:00	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	05/18/2004 08:00	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	05/18/2004 08:00	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	05/18/2004 08:00	
1,2-DCA	ND	0.0050	mg/Kg	05/18/2004 08:00	
EDB	ND	0.0050	mg/Kg	05/18/2004 08:00	
Benzene	ND	0.0050	mg/Kg	05/18/2004 08:00	
Toluene	ND	0.0050	mg/Kg	05/18/2004 08:00	
Ethyl benzene	ND	0.0050	mg/Kg	05/18/2004 08:00	
Total xylenes	ND	0.0050	mg/Kg	05/18/2004 08:00	
Ethanol	ND	0.10	mg/Kg	05/18/2004 08:00	
Surrogates(s)					
1,2-Dichloroethane-d4	92.6	72-124	%	05/18/2004 08:00	
Toluene-d8	105.8	75-116	%	05/18/2004 08:00	

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Soil	QC Batch # 2004/05/14-1C.69
LCS	2004/05/14-1C.69-058	Extracted: 05/14/2004	Analyzed: 05/14/2004 06:58
LCSD	2004/05/14-1C.69-016	Extracted: 05/14/2004	Analyzed: 05/14/2004 07:16

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0404	0.0432	0.05	80.8	86.4	6.7	65-165	20		
Benzene	0.0402	0.0408	0.05	80.4	81.6	1.5	69-129	20		
Toluene	0.0464	0.0460	0.05	92.8	92.0	0.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	395	403	500	79.0	80.6		72-124			
Toluene-d8	481	479	500	96.2	95.8		75-116			

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Gas/BTEX Fuel Oxygenates by 8260B

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Soil			QC Batch # 2004/05/17-2B.62			
LCS	2004/05/17-2B.62-043			Extracted: 05/17/2004			Analyzed: 05/17/2004 18:43			
LCSD	2004/05/17-2B.62-005			Extracted: 05/17/2004			Analyzed: 05/17/2004 19:05			
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0412	0.0474	0.05	82.4	94.8	14.0	65-165	20		
Benzene	0.0395	0.0416	0.05	79.0	83.2	5.2	69-129	20		
Toluene	0.0442	0.0438	0.05	88.4	87.6	0.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	432	445	500	86.4	89.0		72-124			
Toluene-d8	458	462	500	91.6	92.4		75-116			

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

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Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268
Project: Consultant Project No: 38486908
BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Soil	QC Batch # 2004/05/18-1B.62
LCS	2004/05/18-1B.62-015	Extracted: 05/18/2004	Analyzed: 05/18/2004 07:15
LCSD	2004/05/18-1B.62-037	Extracted: 05/18/2004	Analyzed: 05/18/2004 07:37

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0392	0.0444	0.05	78.4	88.8	12.4	65-165	20		
Benzene	0.0412	0.0410	0.05	82.4	82.0	0.5	69-129	20		
Toluene	0.0386	0.0390	0.05	77.2	78.0	1.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	439	454	500	87.8	90.8		72-124			
Toluene-d8	479	508	500	95.8	101.6		75-116			

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-3	05/07/2004 09:45	Water	10

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05/18/2004 15:15

Gas/BTEX Fuel Oxygenates by 8260B

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Attn.: Scott Robinson

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-3	Lab ID:	2004-05-0261 - 10
Sampled:	05/07/2004 09:45	Extracted:	5/18/2004 02:04
Matrix:	Water	QC Batch#:	2004/05/17-2D.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	88	50	ug/L	1.00	05/18/2004 02:04	
Benzene	ND	0.50	ug/L	1.00	05/18/2004 02:04	
Toluene	ND	0.50	ug/L	1.00	05/18/2004 02:04	
Ethylbenzene	ND	0.50	ug/L	1.00	05/18/2004 02:04	
Total xylenes	ND	1.0	ug/L	1.00	05/18/2004 02:04	
tert-Butyl alcohol (TBA)	110	5.0	ug/L	1.00	05/18/2004 02:04	
Methyl tert-butyl ether (MTBE)	34	0.50	ug/L	1.00	05/18/2004 02:04	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	05/18/2004 02:04	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	05/18/2004 02:04	
tert-Amyl methyl ether (TAME)	1.1	0.50	ug/L	1.00	05/18/2004 02:04	
1,2-DCA	ND	0.50	ug/L	1.00	05/18/2004 02:04	
EDB	ND	0.50	ug/L	1.00	05/18/2004 02:04	
Ethanol	ND	50	ug/L	1.00	05/18/2004 02:04	
Surrogate(s)						
1,2-Dichloroethane-d4	111.6	76-114	%	1.00	05/18/2004 02:04	
Toluene-d8	102.4	88-110	%	1.00	05/18/2004 02:04	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

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Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Method Blank			Water		
MB: 2004/05/17-2D.64-036			QC Batch # 2004/05/17-2D.64		
			Date Extracted: 05/17/2004 18:36		
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/17/2004 18:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/17/2004 18:36	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/17/2004 18:36	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	05/17/2004 18:36	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/17/2004 18:36	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/17/2004 18:36	
1,2-DCA	ND	0.5	ug/L	05/17/2004 18:36	
EDB	ND	0.5	ug/L	05/17/2004 18:36	
Benzene	ND	0.5	ug/L	05/17/2004 18:36	
Toluene	ND	0.5	ug/L	05/17/2004 18:36	
Ethylbenzene	ND	0.5	ug/L	05/17/2004 18:36	
Total xylenes	ND	1.0	ug/L	05/17/2004 18:36	
Ethanol	ND	50	ug/L	05/17/2004 18:36	
Surrogates(s)					
1,2-Dichloroethane-d4	102.0	72-128	%	05/17/2004 18:36	
Toluene-d8	98.8	80-113	%	05/17/2004 18:36	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

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Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268
Project: Consultant Project No: 38486908
BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Laboratory Control Spike	Water	QC Batch # 2004/05/17-2D.64
LCS 2004/05/17-2D.64-052	Extracted: 05/17/2004	Analyzed: 05/17/2004 17:52
LCSD 2004/05/17-2D.64-014	Extracted: 05/17/2004	Analyzed: 05/17/2004 18:14

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.1	22.2	25	96.4	88.8	8.2	65-165	20		
Benzene	22.8	21.1	25	91.2	84.4	7.7	69-129	20		
Toluene	24.1	22.2	25	96.4	88.8	8.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	513	487	500	102.6	97.4		72-128			
Toluene-d8	499	502	500	99.8	100.4		80-113			

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

URS-Oakland, CA

Attn.: Scott Robinson

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-4-1.0	05/07/2004 11:00	Soil	2

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Gas/BTEXFuel Oxygenates by 8260B (High Level)

URS-Oakland, CA

Attn.: Scott Robinson

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-4-1.0	Lab ID:	2004-05-0261 - 2
Sampled:	05/07/2004 11:00	Extracted:	5/14/2004 03:00
Matrix:	Soil	QC Batch#:	2004/05/13-3A:69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	350	50	mg/Kg	1.00	05/14/2004 03:00	g
Benzene	ND	0.50	mg/Kg	1.00	05/14/2004 03:00	
Toluene	ND	0.50	mg/Kg	1.00	05/14/2004 03:00	
Ethyl benzene	ND	0.50	mg/Kg	1.00	05/14/2004 03:00	
Total xylenes	ND	0.50	mg/Kg	1.00	05/14/2004 03:00	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	05/14/2004 03:00	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	05/14/2004 03:00	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	05/14/2004 03:00	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	05/14/2004 03:00	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	05/14/2004 03:00	
1,2-DCA	ND	0.50	mg/Kg	1.00	05/14/2004 03:00	
EDB	ND	0.50	mg/Kg	1.00	05/14/2004 03:00	
Ethanol	ND	25	mg/Kg	1.00	05/14/2004 03:00	
Surrogate(s)						
1,2-Dichloroethane-d4	105.9	70-121	%	1.00	05/14/2004 03:00	
Toluene-d8	107.9	81-117	%	1.00	05/14/2004 03:00	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/18/2004 14:12

Gas/BTEXFuel Oxygenates by 8260B (High Level)

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Soil	QC Batch # 2004/05/13-3A.69
MB: 2004/05/13-3A.69-004		Date Extracted: 05/13/2004 20:04

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	mg/Kg	05/13/2004 20:04	
Gasoline	ND	50	mg/Kg	05/13/2004 20:04	
Benzene	ND	0.50	mg/Kg	05/13/2004 20:04	
Toluene	ND	0.50	mg/Kg	05/13/2004 20:04	
Ethyl benzene	ND	0.50	mg/Kg	05/13/2004 20:04	
Total xylenes	ND	0.50	mg/Kg	05/13/2004 20:04	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	05/13/2004 20:04	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	05/13/2004 20:04	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	05/13/2004 20:04	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	05/13/2004 20:04	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	05/13/2004 20:04	
1,2-DCA	ND	0.50	mg/Kg	05/13/2004 20:04	
EDB	ND	0.50	mg/Kg	05/13/2004 20:04	
Ethanol	ND	25	mg/Kg	05/13/2004 20:04	
Surrogates(s)					
1,2-Dichloroethane-d4	90.4	70-121	%	05/13/2004 20:04	
Toluene-d8	97.4	81-117	%	05/13/2004 20:04	

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Soil			QC Batch # 2004/05/13-3A.69			
LCS	2004/05/13-3A.69-028			Extracted: 05/13/2004			Analyzed: 05/13/2004 19:28			
LCSD	2004/05/13-3A.69-045			Extracted: 05/13/2004			Analyzed: 05/13/2004 19:45			
Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	9.37	9.38	10	93.7	93.8	0.1	69-129	20		
Toluene	10.0	10.3	10	100.0	103.0	3.0	70-130	20		
Methyl tert-butyl ether (MTBE)	9.99	9.85	10	99.9	98.5	1.4	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	312	233	250	104.0	93.2		70-121			
Toluene-d8	336	272	250	112.0	108.8		81-117			

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Received: 05/07/2004 17:05

Site: 3310 Park Blvd., Oakland, CA

Legend and Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

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05/18/2004 14:12

STL San Francisco

Sample Receipt Checklist

Submission #: 2004-05-0261

Checklist completed by: (Initials) JIM Date: 05/08/04

Courier name: [X] STL San Francisco [] Client

Custody seals intact on shipping containers/samples Yes No Not Present [X]

Chain of custody present? Yes [X] No

Chain of custody signed when relinquished and received? Yes [X] No

Chain of custody agrees with sample labels? Yes [X] No

Samples in proper container/bottle? Yes [X] No

Sample containers intact? Yes [X] No

Sufficient sample volume for indicated test? Yes [X] No

All samples received within holding time? Yes [X] No

Container/Temp Blank temperature in compliance (4°C ± 2)? Temp 13°C Yes [X] No

Ice Present Yes [X] No

Water - VOA vials have zero headspace? No VOA vials submitted Yes [X] No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt? [] Yes [] No

[] pH adjusted - Preservative used: [] HNO3 [] HCl [] H2SO4 [] NaOH [] ZnOAc - Lot #(s)

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: < 4 hrs from sampling

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (Initials) Date: / /04

Client contacted: [] Yes [] No

Summary of discussion:

Corrective Action (per PM/Client):



Project Name Soil and Groundwater Investigation @ site 2107
Business Unit Atlantic Richfield Company/Central CA Portfolio
BP Laboratory Contract Number: 4 6 1 0 0 0
Requested Due Date: 2 weeks from sampling date

2004-05-0261

85624

On-site Time: <u>0730</u>	Temp: <u>~65°F</u>
Off-site Time: <u>1500</u>	Temp: <u>~80°F</u>
Sky Conditions: <u>CLEAR; SUNNY</u>	
Meteorological Events: <u>-</u>	
Wind Speed: <u>5-10 mph</u> Direction: <u>W</u>	

Date: 5/7/04

Lab Name: STL - San Francisco	BP/GEM Facility No.: ARCO #2107	Consultant: URS Oakland
Lab Address: 1220 Quarry Lane Pleasanton, CA 94566-4756	BP/GEM Facility Address: 3310 Park Blvd., Oakland, CA	Address: 1333 Broadway, Suite 800 Oakland, CA 94612
Lab PM: Afsaneh Saïmpour	Site ID No. Station: 2107	e-mail EDD: N/A
Tele/Fax: 925-484-1919/925-484-1096	Site Lat/Long:	Consultant Project No.: 38486908
Report Type & QC Level: Level 1	California Global ID #:	Consultant Tele/Fax: 510-893-3600/510-874-3268
BP/GEM Account No.:	BP/GEM-PM Contact: Paul Supple	Consultant PM: Scott Robinson
Lab Bottle Order No.:	Address: PO Box 6549 Moraga, CA 94570	Invoice to: Consultant
	Tele/Fax: 925-299-8891	BP/GEM Work Release No.:

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments		
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	ED8, 1-20	ED8, 1-20	ED8, 1-20	ED8, 1-20	ED8, 1-20	ED8, 1-20			
1	SB-2-10	1130	X				1														
2	SB-4-100	1100	X				1														
3	SB-3-100	0900	X				1														
4	SB-3-100	0900	X				1														
5	SB-3-12.0	0900	X				1														
6	SB-3-22.0	0900	X				1														
7	SB-3-24.5	0930	X				1														
8	SB-3-24.0	0940	X				1														
9	DRUMS	1430	X				1														
10	SB-3	0945	X				3														

Sampler's Name: Kevin Uno	Relinquished By / Affiliation: KEVIN UNO	Date: 5/7/04	Time: 1700	Accepted By / Affiliation: [Signature]	Date: 5/7/04	Time: 1550
Sampler's Company: URS Oakland						
Shipment Date: 5/7/04						
Shipment Method: Hand Deliver						
Shipment Tracking No.:						

Special Instructions:

Custody Seals In Place Yes No x Temperature Blank Yes No x 2107 BP COC 511 Cooler Temperature on Receipt 50°F Trip Blank Yes No x

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-1-5	03/30/2004 10:20	Soil	1
SB-1-10	03/30/2004 10:30	Soil	2
SB-1-15	03/30/2004 10:40	Soil	3
SB-1-18	03/30/2004 10:50	Soil	4
SB-2-5	03/30/2004 08:50	Soil	5
SB-2-10	03/30/2004 09:00	Soil	6
SB-2-15	03/30/2004 09:10	Soil	7
SB-2-20	03/30/2004 09:20	Soil	8
SB-2-23	03/30/2004 09:30	Soil	9
SB-5-8	03/30/2004 11:20	Soil	10

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04/15/2004 14:51

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-1-5	Lab ID:	2004-03-0949 - 1
Sampled:	03/30/2004 10:20	Extracted:	4/1/2004 12:57
Matrix:	Soil	Moisture:	1.2229
		QC Batch#:	2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.2	mg/Kg	1.00	04/01/2004 12:57	
Benzene	ND	0.0061	mg/Kg	1.00	04/01/2004 12:57	
Toluene	0.096	0.0061	mg/Kg	1.00	04/01/2004 12:57	
Ethyl benzene	ND	0.0061	mg/Kg	1.00	04/01/2004 12:57	
Total xylenes	0.016	0.0061	mg/Kg	1.00	04/01/2004 12:57	
tert-Butyl alcohol (TBA)	ND	0.012	mg/Kg	1.00	04/01/2004 12:57	
Methyl tert-butyl ether (MTBE)	ND	0.0061	mg/Kg	1.00	04/01/2004 12:57	
Di-isopropyl Ether (DIPE)	ND	0.012	mg/Kg	1.00	04/01/2004 12:57	
Ethyl tert-butyl ether (ETBE)	ND	0.0061	mg/Kg	1.00	04/01/2004 12:57	
tert-Amyl methyl ether (TAME)	ND	0.0061	mg/Kg	1.00	04/01/2004 12:57	
Surrogate(s)						
1,2-Dichloroethane-d4	104.3	70-121	%	1.00	04/01/2004 12:57	
Toluene-d8	89.9	81-117	%	1.00	04/01/2004 12:57	

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Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-1-10	Lab ID:	2004-03-0949 - 2
Sampled:	03/30/2004 10:30	Extracted:	4/1/2004 13:15
Matrix:	Soil	Moisture:	1.2627
		QC Batch#:	2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.3	mg/Kg	1.00	04/01/2004 13:15	
Benzene	ND	0.0063	mg/Kg	1.00	04/01/2004 13:15	
Toluene	ND	0.0063	mg/Kg	1.00	04/01/2004 13:15	
Ethyl benzene	ND	0.0063	mg/Kg	1.00	04/01/2004 13:15	
Total xylenes	ND	0.0063	mg/Kg	1.00	04/01/2004 13:15	
tert-Butyl alcohol (TBA)	ND	0.013	mg/Kg	1.00	04/01/2004 13:15	
Methyl tert-butyl ether (MTBE)	ND	0.0063	mg/Kg	1.00	04/01/2004 13:15	
Di-isopropyl Ether (DIPE)	ND	0.013	mg/Kg	1.00	04/01/2004 13:15	
Ethyl tert-butyl ether (ETBE)	ND	0.0063	mg/Kg	1.00	04/01/2004 13:15	
tert-Amyl methyl ether (TAME)	ND	0.0063	mg/Kg	1.00	04/01/2004 13:15	
Surrogate(s)						
1,2-Dichloroethane-d4	103.3	70-121	%	1.00	04/01/2004 13:15	
Toluene-d8	96.1	81-117	%	1.00	04/01/2004 13:15	

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Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-1-15	Lab ID:	2004-03-0949 - 3
Sampled:	03/30/2004 10:40	Extracted:	4/1/2004 13:46
Matrix:	Soil	Moisture:	1.1897
		QC Batch#:	2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.2	mg/Kg	1.00	04/01/2004 13:46	
Benzene	ND	0.0059	mg/Kg	1.00	04/01/2004 13:46	
Toluene	ND	0.0059	mg/Kg	1.00	04/01/2004 13:46	
Ethyl benzene	ND	0.0059	mg/Kg	1.00	04/01/2004 13:46	
Total xylenes	ND	0.0059	mg/Kg	1.00	04/01/2004 13:46	
tert-Butyl alcohol (TBA)	ND	0.012	mg/Kg	1.00	04/01/2004 13:46	
Methyl tert-butyl ether (MTBE)	ND	0.0059	mg/Kg	1.00	04/01/2004 13:46	
Di-isopropyl Ether (DIPE)	ND	0.012	mg/Kg	1.00	04/01/2004 13:46	
Ethyl tert-butyl ether (ETBE)	ND	0.0059	mg/Kg	1.00	04/01/2004 13:46	
tert-Amyl methyl ether (TAME)	ND	0.0059	mg/Kg	1.00	04/01/2004 13:46	
Surrogate(s)						
1,2-Dichloroethane-d4	99.3	70-121	%	1.00	04/01/2004 13:46	
Toluene-d8	89.1	81-117	%	1.00	04/01/2004 13:46	

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Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-1-18	Lab ID:	2004-03-0949 - 4
Sampled:	03/30/2004 10:50	Extracted:	4/1/2004 14:04
Matrix:	Soil	Moisture:	1.1767
		QC Batch#:	2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.2	mg/Kg	1.00	04/01/2004 14:04	
Benzene	ND	0.0059	mg/Kg	1.00	04/01/2004 14:04	
Toluene	ND	0.0059	mg/Kg	1.00	04/01/2004 14:04	
Ethyl benzene	ND	0.0059	mg/Kg	1.00	04/01/2004 14:04	
Total xylenes	ND	0.0059	mg/Kg	1.00	04/01/2004 14:04	
tert-Butyl alcohol (TBA)	ND	0.012	mg/Kg	1.00	04/01/2004 14:04	
Methyl tert-butyl ether (MTBE)	ND	0.0059	mg/Kg	1.00	04/01/2004 14:04	
Di-isopropyl Ether (DIPE)	ND	0.012	mg/Kg	1.00	04/01/2004 14:04	
Ethyl tert-butyl ether (ETBE)	ND	0.0059	mg/Kg	1.00	04/01/2004 14:04	
tert-Amyl methyl ether (TAME)	ND	0.0059	mg/Kg	1.00	04/01/2004 14:04	
Surrogate(s)						
1,2-Dichloroethane-d4	98.4	70-121	%	1.00	04/01/2004 14:04	
Toluene-d8	86.1	81-117	%	1.00	04/01/2004 14:04	

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Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-2-5	Lab ID:	2004-03-0949 - 5
Sampled:	03/30/2004 08:50	Extracted:	4/1/2004 14:23
Matrix:	Soil	Moisture:	1.3398
		QC Batch#:	2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.3	mg/Kg	1.00	04/01/2004 14:23	
Benzene	ND	0.0067	mg/Kg	1.00	04/01/2004 14:23	
Toluene	ND	0.0067	mg/Kg	1.00	04/01/2004 14:23	
Ethyl benzene	ND	0.0067	mg/Kg	1.00	04/01/2004 14:23	
Total xylenes	ND	0.0067	mg/Kg	1.00	04/01/2004 14:23	
tert-Butyl alcohol (TBA)	ND	0.013	mg/Kg	1.00	04/01/2004 14:23	
Methyl tert-butyl ether (MTBE)	ND	0.0067	mg/Kg	1.00	04/01/2004 14:23	
Di-isopropyl Ether (DIPE)	ND	0.013	mg/Kg	1.00	04/01/2004 14:23	
Ethyl tert-butyl ether (ETBE)	ND	0.0067	mg/Kg	1.00	04/01/2004 14:23	
tert-Amyl methyl ether (TAME)	ND	0.0067	mg/Kg	1.00	04/01/2004 14:23	
Surrogate(s)						
1,2-Dichloroethane-d4	102.6	70-121	%	1.00	04/01/2004 14:23	
Toluene-d8	90.7	81-117	%	1.00	04/01/2004 14:23	

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BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-2-10	Lab ID: 2004-03-0949 - 6
Sampled: 03/30/2004 09:00	Extracted: 4/1/2004 14:41
Matrix: Soil	Moisture: 1.2179
	QC Batch#: 2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.2	mg/Kg	1.00	04/01/2004 14:41	
Benzene	ND	0.0061	mg/Kg	1.00	04/01/2004 14:41	
Toluene	ND	0.0061	mg/Kg	1.00	04/01/2004 14:41	
Ethyl benzene	ND	0.0061	mg/Kg	1.00	04/01/2004 14:41	
Total xylenes	ND	0.0061	mg/Kg	1.00	04/01/2004 14:41	
tert-Butyl alcohol (TBA)	ND	0.012	mg/Kg	1.00	04/01/2004 14:41	
Methyl tert-butyl ether (MTBE)	ND	0.0061	mg/Kg	1.00	04/01/2004 14:41	
Di-isopropyl Ether (DIPE)	ND	0.012	mg/Kg	1.00	04/01/2004 14:41	
Ethyl tert-butyl ether (ETBE)	ND	0.0061	mg/Kg	1.00	04/01/2004 14:41	
tert-Amyl methyl ether (TAME)	ND	0.0061	mg/Kg	1.00	04/01/2004 14:41	
Surrogate(s)						
1,2-Dichloroethane-d4	99.0	70-121	%	1.00	04/01/2004 14:41	
Toluene-d8	91.4	81-117	%	1.00	04/01/2004 14:41	

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-2-15	Lab ID:	2004-03-0949 - 7
Sampled:	03/30/2004 09:10	Extracted:	4/1/2004 15:00
Matrix:	Soil	Moisture:	1.1917
		QC Batch#:	2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.2	mg/Kg	1.00	04/01/2004 15:00	
Benzene	ND	0.0060	mg/Kg	1.00	04/01/2004 15:00	
Toluene	ND	0.0060	mg/Kg	1.00	04/01/2004 15:00	
Ethyl benzene	ND	0.0060	mg/Kg	1.00	04/01/2004 15:00	
Total xylenes	ND	0.0060	mg/Kg	1.00	04/01/2004 15:00	
tert-Butyl alcohol (TBA)	ND	0.012	mg/Kg	1.00	04/01/2004 15:00	
Methyl tert-butyl ether (MTBE)	ND	0.0060	mg/Kg	1.00	04/01/2004 15:00	
Di-isopropyl Ether (DIPE)	ND	0.012	mg/Kg	1.00	04/01/2004 15:00	
Ethyl tert-butyl ether (ETBE)	ND	0.0060	mg/Kg	1.00	04/01/2004 15:00	
tert-Amyl methyl ether (TAME)	ND	0.0060	mg/Kg	1.00	04/01/2004 15:00	
Surrogate(s)						
1,2-Dichloroethane-d4	101.8	70-121	%	1.00	04/01/2004 15:00	
Toluene-d8	95.2	81-117	%	1.00	04/01/2004 15:00	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/15/2004 14:51

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-2-20	Lab ID:	2004-03-0949 - 8
Sampled:	03/30/2004 09:20	Extracted:	4/1/2004 15:18
Matrix:	Soil	Moisture:	1.2317
		QC Batch#:	2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.2	mg/Kg	1.00	04/01/2004 15:18	
Benzene	ND	0.0062	mg/Kg	1.00	04/01/2004 15:18	
Toluene	ND	0.0062	mg/Kg	1.00	04/01/2004 15:18	
Ethyl benzene	ND	0.0062	mg/Kg	1.00	04/01/2004 15:18	
Total xylenes	ND	0.0062	mg/Kg	1.00	04/01/2004 15:18	
tert-Butyl alcohol (TBA)	ND	0.012	mg/Kg	1.00	04/01/2004 15:18	
Methyl tert-butyl ether (MTBE)	ND	0.0062	mg/Kg	1.00	04/01/2004 15:18	
Di-isopropyl Ether (DIPE)	ND	0.012	mg/Kg	1.00	04/01/2004 15:18	
Ethyl tert-butyl ether (ETBE)	ND	0.0062	mg/Kg	1.00	04/01/2004 15:18	
tert-Amyl methyl ether (TAME)	ND	0.0062	mg/Kg	1.00	04/01/2004 15:18	
Surrogate(s)						
1,2-Dichloroethane-d4	100.8	70-121	%	1.00	04/01/2004 15:18	
Toluene-d8	93.0	81-117	%	1.00	04/01/2004 15:18	

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04/15/2004 14:51

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-2-23	Lab ID: 2004-03-0949 - 9
Sampled: 03/30/2004 09:30	Extracted: 4/1/2004 15:37
Matrix: Soil	Moisture: 1.2029
	QC Batch#: 2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.2	mg/Kg	1.00	04/01/2004 15:37	
Benzene	ND	0.0060	mg/Kg	1.00	04/01/2004 15:37	
Toluene	ND	0.0060	mg/Kg	1.00	04/01/2004 15:37	
Ethyl benzene	ND	0.0060	mg/Kg	1.00	04/01/2004 15:37	
Total xylenes	ND	0.0060	mg/Kg	1.00	04/01/2004 15:37	
tert-Butyl alcohol (TBA)	ND	0.012	mg/Kg	1.00	04/01/2004 15:37	
Methyl tert-butyl ether (MTBE)	ND	0.0060	mg/Kg	1.00	04/01/2004 15:37	
Di-isopropyl Ether (DIPE)	ND	0.012	mg/Kg	1.00	04/01/2004 15:37	
Ethyl tert-butyl ether (ETBE)	ND	0.0060	mg/Kg	1.00	04/01/2004 15:37	
tert-Amyl methyl ether (TAME)	ND	0.0060	mg/Kg	1.00	04/01/2004 15:37	
Surrogate(s)						
1,2-Dichloroethane-d4	98.3	70-121	%	1.00	04/01/2004 15:37	
Toluene-d8	97.0	81-117	%	1.00	04/01/2004 15:37	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/15/2004 14:51

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-5-8	Lab ID: 2004-03-0949 - 10
Sampled: 03/30/2004 11:20	Extracted: 4/1/2004 15:55
Matrix: Soil	Moisture: 1.1224
	QC Batch#: 2004/04/01-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.1	mg/Kg	1.00	04/01/2004 15:55	
Benzene	ND	0.0056	mg/Kg	1.00	04/01/2004 15:55	
Toluene	ND	0.0056	mg/Kg	1.00	04/01/2004 15:55	
Ethyl benzene	ND	0.0056	mg/Kg	1.00	04/01/2004 15:55	
Total xylenes	ND	0.0056	mg/Kg	1.00	04/01/2004 15:55	
tert-Butyl alcohol (TBA)	ND	0.011	mg/Kg	1.00	04/01/2004 15:55	
Methyl tert-butyl ether (MTBE)	ND	0.0056	mg/Kg	1.00	04/01/2004 15:55	
Di-isopropyl Ether (DIPE)	ND	0.011	mg/Kg	1.00	04/01/2004 15:55	
Ethyl tert-butyl ether (ETBE)	ND	0.0056	mg/Kg	1.00	04/01/2004 15:55	
tert-Amyl methyl ether (TAME)	ND	0.0056	mg/Kg	1.00	04/01/2004 15:55	
Surrogate(s)						
1,2-Dichloroethane-d4	103.7	70-121	%	1.00	04/01/2004 15:55	
Toluene-d8	93.5	81-117	%	1.00	04/01/2004 15:55	

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04/15/2004 14:51

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report					
Prep(s): 5030B Method Blank MB: 2004/04/01-1A.69-041			Soil		Test(s): 8260B QC Batch # 2004/04/01-1A.69 Date Extracted: 04/01/2004 08:41
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	04/01/2004 08:41	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	04/01/2004 08:41	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	04/01/2004 08:41	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	04/01/2004 08:41	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	04/01/2004 08:41	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	04/01/2004 08:41	
Benzene	ND	0.0050	mg/Kg	04/01/2004 08:41	
Toluene	ND	0.0050	mg/Kg	04/01/2004 08:41	
Ethyl benzene	ND	0.0050	mg/Kg	04/01/2004 08:41	
Total xylenes	ND	0.0050	mg/Kg	04/01/2004 08:41	
Surrogates(s)					
1,2-Dichloroethane-d4	104.9	70-121	%	04/01/2004 08:41	
Toluene-d8	98.5	81-117	%	04/01/2004 08:41	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/15/2004 14:51

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908
BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Soil	QC Batch # 2004/04/01-1A.69
LCS	2004/04/01-1A.69-005	Extracted: 04/01/2004	Analyzed: 04/01/2004 08:05
LCSD	2004/04/01-1A.69-023	Extracted: 04/01/2004	Analyzed: 04/01/2004 08:23

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0584	0.0613	0.05	116.8	122.6	4.8	65-165	20		
Benzene	0.0545	0.0552	0.05	109.0	110.4	1.3	69-129	20		
Toluene	0.0562	0.0553	0.05	112.4	110.6	1.6	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	499	556	500	99.8	111.2		70-121			
Toluene-d8	527	512	500	105.4	102.4		81-117			

STL San Francisco

Sample Receipt Checklist

Submission #: 2004-03-0949

Checklist completed by: (Initials) MV Date: 03,31/04

Courier name: [X] STL San Francisco [] Client

Custody seals intact on shipping container/samples

Yes No Not Present [X]

Chain of custody present?

Yes [X] No

Chain of custody signed when relinquished and received?

Yes [X] No

Chain of custody agrees with sample labels?

Yes [X] No

Samples in proper container/bottle?

Yes [X] No

Sample containers intact?

Yes [X] No

Sufficient sample volume for indicated test?

Yes [X] No

All samples received within holding time?

Yes [X] No

Container/Temp Blank temperature in compliance (4° C ± 2)?

Temp: 3.2°C Yes [X] No

Water - VOA vials have zero headspace?

Ice Present Yes [X] No

No VOA vials submitted [X] Yes No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt? [] Yes [] No

SOIL

[] pH adjusted- Preservative used: [] HNO3 [] HCl [] H2SO4 [] NaOH [] ZnOAc - Lot #(s)

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (Initials) Date: / /04

Client contacted: [] Yes [] No

Summary of discussion:

Corrective Action (per PM/Client):

URS-Oakland, CA

April 15, 2004

1333 Broadway, Suite 800
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486908

Project: BP Facility No: 2107

Site: 3310 Park Blvd., Oakland, CA

Attached is our report for your samples received on 03/30/2004 17:00
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

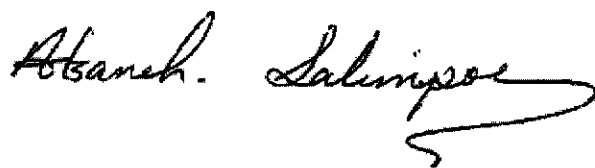
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after
05/14/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: asalimpour@stl-inc.com

Sincerely,



Afsaneh Salimpour
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

URS-Oakland, CA

April 15, 2004

1333 Broadway, Suite 800
Oakland, CA 94612

Attn.: Scott Robinson

Project#: Consultant Project No: 38486908

Project: BP Facility No: 2107

Site: 3310 Park Blvd., Oakland, CA

Case Narrative

General and Sample Comments

We (STL San Francisco) received 2 Soil samples and 3 Water samples , on Tuesday, March 30, 2004 5:00 PM.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-5-16	03/30/2004 11:40	Soil	1
SB-5-19	03/30/2004 11:50	Soil	2

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/15/2004 14:50

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-5-16	Lab ID:	2004-03-0950 - 1
Sampled:	03/30/2004 11:40	Extracted:	4/2/2004 10:11
Matrix:	Soil	Moisture:	1.3044
		QC Batch#:	2004/04/02-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.3	mg/Kg	1.00	04/02/2004 10:11	
Benzene	ND	0.0065	mg/Kg	1.00	04/02/2004 10:11	
Toluene	ND	0.0065	mg/Kg	1.00	04/02/2004 10:11	
Ethyl benzene	ND	0.0065	mg/Kg	1.00	04/02/2004 10:11	
Total xylenes	ND	0.0065	mg/Kg	1.00	04/02/2004 10:11	
tert-Butyl alcohol (TBA)	0.016	0.013	mg/Kg	1.00	04/02/2004 10:11	
Methyl tert-butyl ether (MTBE)	0.0066	0.0065	mg/Kg	1.00	04/02/2004 10:11	
Di-isopropyl Ether (DIPE)	ND	0.013	mg/Kg	1.00	04/02/2004 10:11	
Ethyl tert-butyl ether (ETBE)	ND	0.0065	mg/Kg	1.00	04/02/2004 10:11	
tert-Amyl methyl ether (TAME)	ND	0.0065	mg/Kg	1.00	04/02/2004 10:11	
Surrogate(s)						
1,2-Dichloroethane-d4	105.8	70-121	%	1.00	04/02/2004 10:11	
Toluene-d8	97.6	81-117	%	1.00	04/02/2004 10:11	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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04/15/2004 14:50

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-5-19	Lab ID:	2004-03-0950 - 2
Sampled:	03/30/2004 11:50	Extracted:	4/2/2004 10:30
Matrix:	Soil	Moisture:	1.1883
		QC Batch#:	2004/04/02-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.2	mg/Kg	1.00	04/02/2004 10:30	
Benzene	ND	0.0059	mg/Kg	1.00	04/02/2004 10:30	
Toluene	ND	0.0059	mg/Kg	1.00	04/02/2004 10:30	
Ethyl benzene	ND	0.0059	mg/Kg	1.00	04/02/2004 10:30	
Total xylenes	ND	0.0059	mg/Kg	1.00	04/02/2004 10:30	
tert-Butyl alcohol (TBA)	ND	0.012	mg/Kg	1.00	04/02/2004 10:30	
Methyl tert-butyl ether (MTBE)	ND	0.0059	mg/Kg	1.00	04/02/2004 10:30	
Di-isopropyl Ether (DIPE)	ND	0.012	mg/Kg	1.00	04/02/2004 10:30	
Ethyl tert-butyl ether (ETBE)	ND	0.0059	mg/Kg	1.00	04/02/2004 10:30	
tert-Amyl methyl ether (TAME)	ND	0.0059	mg/Kg	1.00	04/02/2004 10:30	
Surrogate(s)						
1,2-Dichloroethane-d4	108.0	70-121	%	1.00	04/02/2004 10:30	
Toluene-d8	95.9	81-117	%	1.00	04/02/2004 10:30	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/15/2004 14:50

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Soil		QC Batch # 2004/04/02-1A.69	
MB: 2004/04/02-1A.69-054				Date Extracted: 04/02/2004 08:54	
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	04/02/2004 08:54	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	04/02/2004 08:54	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	04/02/2004 08:54	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	04/02/2004 08:54	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	04/02/2004 08:54	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	04/02/2004 08:54	
Benzene	ND	0.0050	mg/Kg	04/02/2004 08:54	
Toluene	ND	0.0050	mg/Kg	04/02/2004 08:54	
Ethyl benzene	ND	0.0050	mg/Kg	04/02/2004 08:54	
Total xylenes	ND	0.0050	mg/Kg	04/02/2004 08:54	
Surrogates(s)					
1,2-Dichloroethane-d4	99.3	70-121	%	04/02/2004 08:54	
Toluene-d8	96.6	81-117	%	04/02/2004 08:54	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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04/15/2004 14:50

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Laboratory Control Spike		Soil		QC Batch # 2004/04/02-1A.69	
LCS	2004/04/02-1A.69-023	Extracted: 04/02/2004		Analyzed: 04/02/2004 09:23	
LCSD	2004/04/02-1A.69-041	Extracted: 04/02/2004		Analyzed: 04/02/2004 09:41	

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0525	0.0502	0.05	105.0	100.4	4.5	65-165	20		
Benzene	0.0553	0.0565	0.05	110.6	113.0	2.1	69-129	20		
Toluene	0.0521	0.0536	0.05	104.2	107.2	2.8	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	454	451	500	90.8	90.2		70-121			
Toluene-d8	481	483	500	96.2	96.6		81-117			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/15/2004 14:50

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-1	03/30/2004 10:35	Water	3
SB-2	03/30/2004 09:45	Water	4
SB-5	03/30/2004 11:50	Water	5

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/05/2004 15:05

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-1	Lab ID:	2004-03-0950 - 3
Sampled:	03/30/2004 10:35	Extracted:	4/3/2004 15:02
Matrix:	Water	QC Batch#:	2004/04/03-1D.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/03/2004 15:02	
Benzene	ND	0.50	ug/L	1.00	04/03/2004 15:02	
Toluene	ND	0.50	ug/L	1.00	04/03/2004 15:02	
Ethylbenzene	ND	0.50	ug/L	1.00	04/03/2004 15:02	
Total xylenes	ND	1.0	ug/L	1.00	04/03/2004 15:02	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/03/2004 15:02	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/03/2004 15:02	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	04/03/2004 15:02	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	04/03/2004 15:02	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	04/03/2004 15:02	
Ethanol	ND	50	ug/L	1.00	04/03/2004 15:02	
Surrogate(s)						
1,2-Dichloroethane-d4	106.8	76-114	%	1.00	04/03/2004 15:02	
Toluene-d8	99.2	88-110	%	1.00	04/03/2004 15:02	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/05/2004 15:05

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-2	Lab ID: 2004-03-0950 - 4
Sampled: 03/30/2004 09:45	Extracted: 4/3/2004 15:26
Matrix: Water	QC Batch#: 2004/04/03-1D.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/03/2004 15:26	
Benzene	ND	0.50	ug/L	1.00	04/03/2004 15:26	
Toluene	1.4	0.50	ug/L	1.00	04/03/2004 15:26	
Ethylbenzene	ND	0.50	ug/L	1.00	04/03/2004 15:26	
Total xylenes	ND	1.0	ug/L	1.00	04/03/2004 15:26	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/03/2004 15:26	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/03/2004 15:26	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	04/03/2004 15:26	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	04/03/2004 15:26	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	04/03/2004 15:26	
Ethanol	ND	50	ug/L	1.00	04/03/2004 15:26	
Surrogate(s)						
1,2-Dichloroethane-d4	102.5	76-114	%	1.00	04/03/2004 15:26	
Toluene-d8	104.3	88-110	%	1.00	04/03/2004 15:26	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/05/2004 15:05

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-5	Lab ID: 2004-03-0950 - 5
Sampled: 03/30/2004 11:50	Extracted: 4/3/2004 15:50
Matrix: Water	QC Batch#: 2004/04/03-1D.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/03/2004 15:50	
Benzene	ND	0.50	ug/L	1.00	04/03/2004 15:50	
Toluene	ND	0.50	ug/L	1.00	04/03/2004 15:50	
Ethylbenzene	ND	0.50	ug/L	1.00	04/03/2004 15:50	
Total xylenes	ND	1.0	ug/L	1.00	04/03/2004 15:50	
tert-Butyl alcohol (TBA)	45	5.0	ug/L	1.00	04/03/2004 15:50	
Methyl tert-butyl ether (MTBE)	34	0.50	ug/L	1.00	04/03/2004 15:50	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	04/03/2004 15:50	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	04/03/2004 15:50	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	04/03/2004 15:50	
Ethanol	ND	50	ug/L	1.00	04/03/2004 15:50	
Surrogate(s)						
1,2-Dichloroethane-d4	102.1	76-114	%	1.00	04/03/2004 15:50	
Toluene-d8	104.2	88-110	%	1.00	04/03/2004 15:50	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/05/2004 15:05

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Method Blank			Water		
MB: 2004/04/03-1D.66-027			QC Batch # 2004/04/03-1D.66		
			Date Extracted: 04/03/2004 10:27		
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/03/2004 10:27	
Gasoline	ND	50	ug/L	04/03/2004 10:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/03/2004 10:27	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/03/2004 10:27	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	04/03/2004 10:27	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	04/03/2004 10:27	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	04/03/2004 10:27	
Benzene	ND	0.5	ug/L	04/03/2004 10:27	
Toluene	ND	0.5	ug/L	04/03/2004 10:27	
Ethylbenzene	ND	0.5	ug/L	04/03/2004 10:27	
Total xylenes	ND	1.0	ug/L	04/03/2004 10:27	
Ethanol	ND	50	ug/L	04/03/2004 10:27	
Surrogates(s)					
1,2-Dichloroethane-d4	109.6	76-114	%	04/03/2004 10:27	
Toluene-d8	104.4	88-110	%	04/03/2004 10:27	

Severn Trent Laboratories, Inc.

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04/05/2004 15:05

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: Consultant Project No: 38486908

BP Facility No: 2107

Received: 03/30/2004 17:00

Site: 3310 Park Blvd., Oakland, CA

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Water			QC Batch # 2004/04/03-1D.66			
LCS	2004/04/03-1D.66-039		Extracted: 04/03/2004			Analyzed: 04/03/2004 09:39				
LCSD	2004/04/03-1D.66-003		Extracted: 04/03/2004			Analyzed: 04/03/2004 10:03				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	26.4	29.1	25	105.6	116.4	9.7	65-165	20		
Benzene	26.7	28.4	25	106.8	113.6	6.2	69-129	20		
Toluene	26.0	28.0	25	104.0	112.0	7.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	494	522	500	98.8	104.4		76-114			
Toluene-d8	517	532	500	103.4	106.4		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/05/2004 15:05

STL San Francisco

Sample Receipt Checklist

Submission #: 2004-03-0950

Checklist completed by: (Initials) MN Date: 03, 31 /04

Courier name: [X] STL San Francisco [] Client

- Custody seals intact on shipping container/samples: Yes ___ No ___ Not Present
- Chain of custody present?: Yes No ___
- Chain of custody signed when relinquished and received?: Yes No ___
- Chain of custody agrees with sample labels?: Yes No ___
- Samples in proper container/bottle?: Yes No ___
- Sample containers intact?: Yes No ___
- Sufficient sample volume for indicated test?: Yes No ___
- All samples received within holding time?: Yes No ___
- Container/Temp Blank temperature in compliance (4° C ± 2)? Temp: 3.2°C Yes No ___
- Ice Present: Yes No ___
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No ___

(If bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt? [X] Yes [] No
[] pH adjusted - Preservative used: [] HNO3 [] HCl [] H2SO4 [] NaOH [] ZrIOAc - Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: _____

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ___/___/04

Client contacted: [] Yes [] No

Summary of discussion: _____

Corrective Action (per PM/Client): _____



2004-03-0950

Chain of Custody Record

Project Name _____
 Business Unit Atlantic Richfield Company/Central CA Portfolio
 BP Laboratory Contract Number: 4 6 1 0 0 0
 Requested Due Date: 2 weeks from sampling date

Date: 3/30/04

On-site Time: <u>0700</u>	Temp: <u>60</u>
Off-site Time: <u>1245</u>	Temp: <u>22</u>
Sky Conditions: <u>cloudy</u>	
Meteorological Events: <u>—</u>	
Wind Speed: <u>low</u>	Direction: <u>VARIABLE</u>

Send To:	BP/GEM Facility No.: <u>ARCO #2107</u>	Consultant: <u>URS Oakland 1333 BROADWAY</u>
Lab Name: <u>STL</u>	BP/GEM Facility Address: <u>3310 Park Blvd., Oakland, CA</u>	Address: <u>500 TOWER STREET SUITE 800</u>
Lab Address:	Site ID No. Station: <u>2107</u>	<u>Oakland, CA 94607 76412</u>
<u>1220 Quarry Lane</u>	Site Lat/Long:	e-mail EDD: <u>N/A</u>
<u>Pleasanton, CA 94566-4756</u>	California Global ID #:	Consultant Project No.: <u>38486908</u>
Lab PM: <u>Afsaneh Sallimpour</u>	BP/GEM PM Contact: <u>Paul Supple</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Tele/Fax: <u>925-484-1919/925-484-1096</u>	Address:	Consultant PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>Normal</u>		Invoice to: <u>Consultant</u>
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891</u>	BP/GEM Work Release No.:

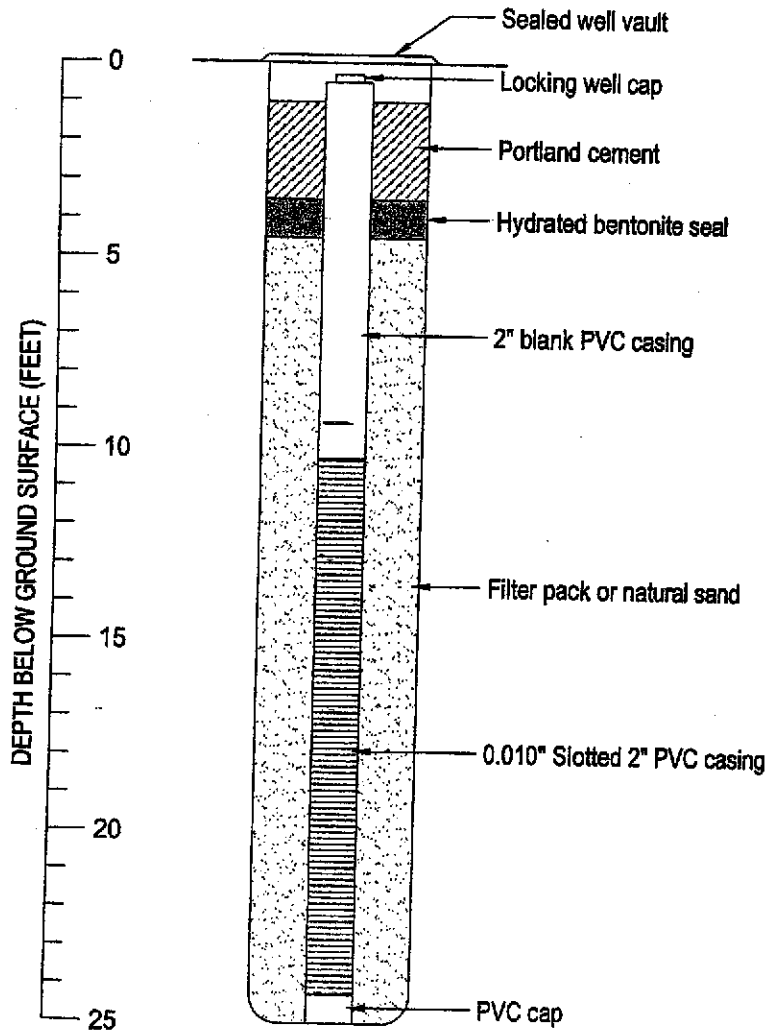
Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	CrO (826)	BTX (816)	fu h-ops	Crude by MIB (826)	
1	SB-5-16	1140	X				1					X	X	X			3.2 °C
2	SB-5-14	1150	X				1					X	X	X			
3	SB-1	1035		X			3					X	X	X		X	
4	SB-2	0945		X			4					X	X	X		X	
5	SB-5	1150		X			2					X	X	X		X	
6																	
7																	
8																	
9																	
10																	

Sampler's Name:	Requisitioned By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
<u>KEVIN LINO</u>	<u>Kevin Lino</u>	<u>3/30</u>	<u>1415</u>	<u>[Signature]</u>	<u>3/30</u>	<u>18:30</u>
Sampler's Company: <u>URS Oakland</u>	<u>[Signature]</u>	<u>3/30</u>	<u>17:30</u>	<u>[Signature]</u>		
Shipment Date: <u>3/30/04</u>						
Shipment Method: <u>Hand Deliver</u>						
Shipment Tracking No:				<u>Nourah-STL-SF</u>	<u>3/30/04</u>	<u>1700</u>

Special Instructions: _____

Custody Seals In Place Yes No Temperature Blank Yes No BP COC Cooler Temperature on Receipt P/C Trip Blank Yes No

ATTACHMENT D
TYPICAL MONITORING WELL CONSTRUCTION DIAGRAM



ATTACHMENT E
SOIL BORING LOGS FROM MARCH 30 AND MAY 7, 2004



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SB-1

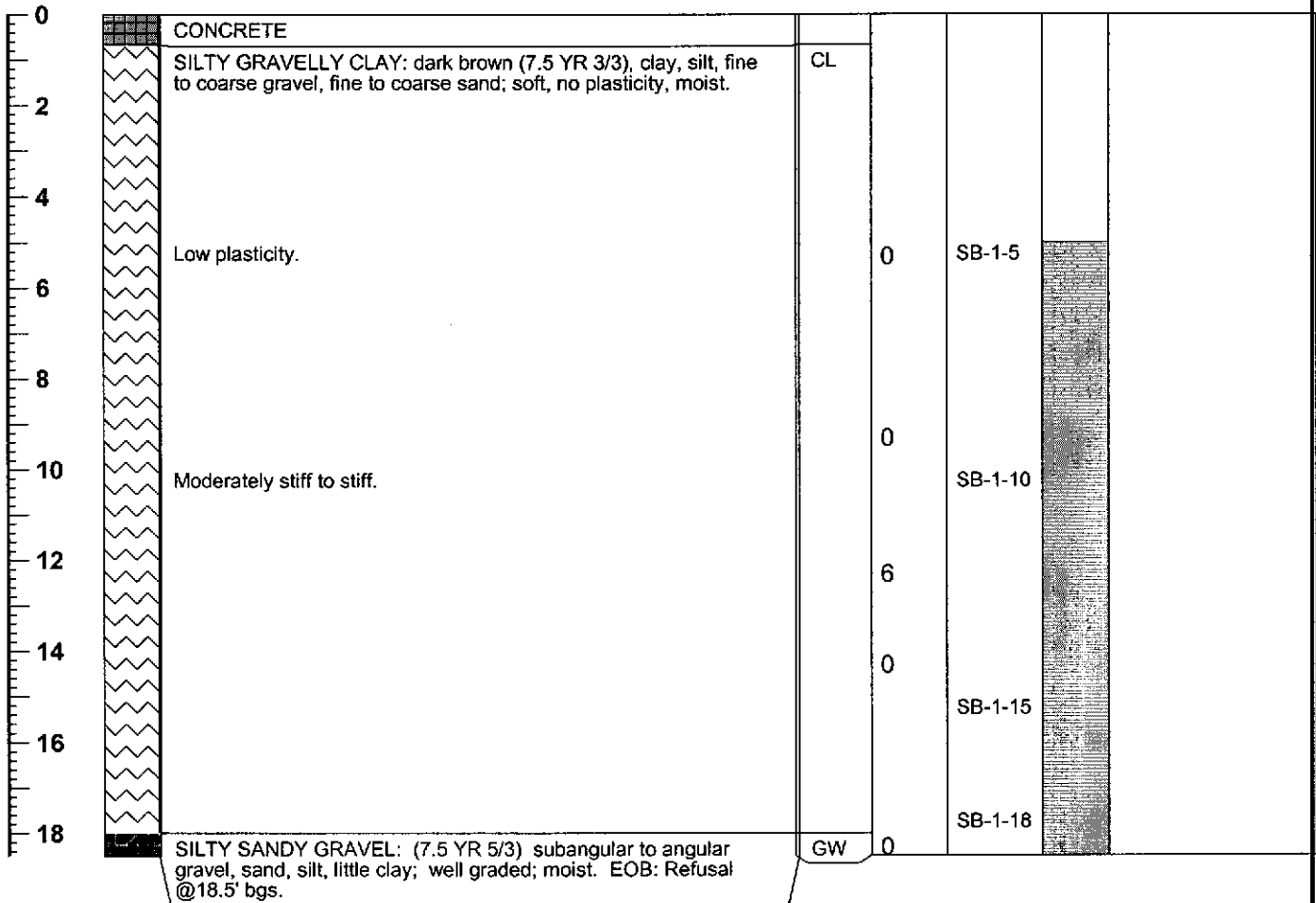
Total Depth: 18.5'

PROJECT INFORMATION	DRILLING INFORMATION
Project: Soil and Water Investigation	Drilling Company: Gregg Drilling and Testing, Inc.
Site Location: 3310 Park Blvd., Oakland, CA	Driller: Paul Rogers
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe
C.Hg.: James Durkin	Drilling Method: 2" Direct Push
Geologist: Chris Sheridan	Sampling Method: Continuous Core
Job Number: 38486908.0013601	Date(s) Drilled: 3/30/04

BORING INFORMATION

Groundwater Depth:	Boring Location: East corner of property, near entrance on East 34th St.
Air Knife Depth: 5.0 feet	Boring Diameter: 2"
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
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1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SB-2

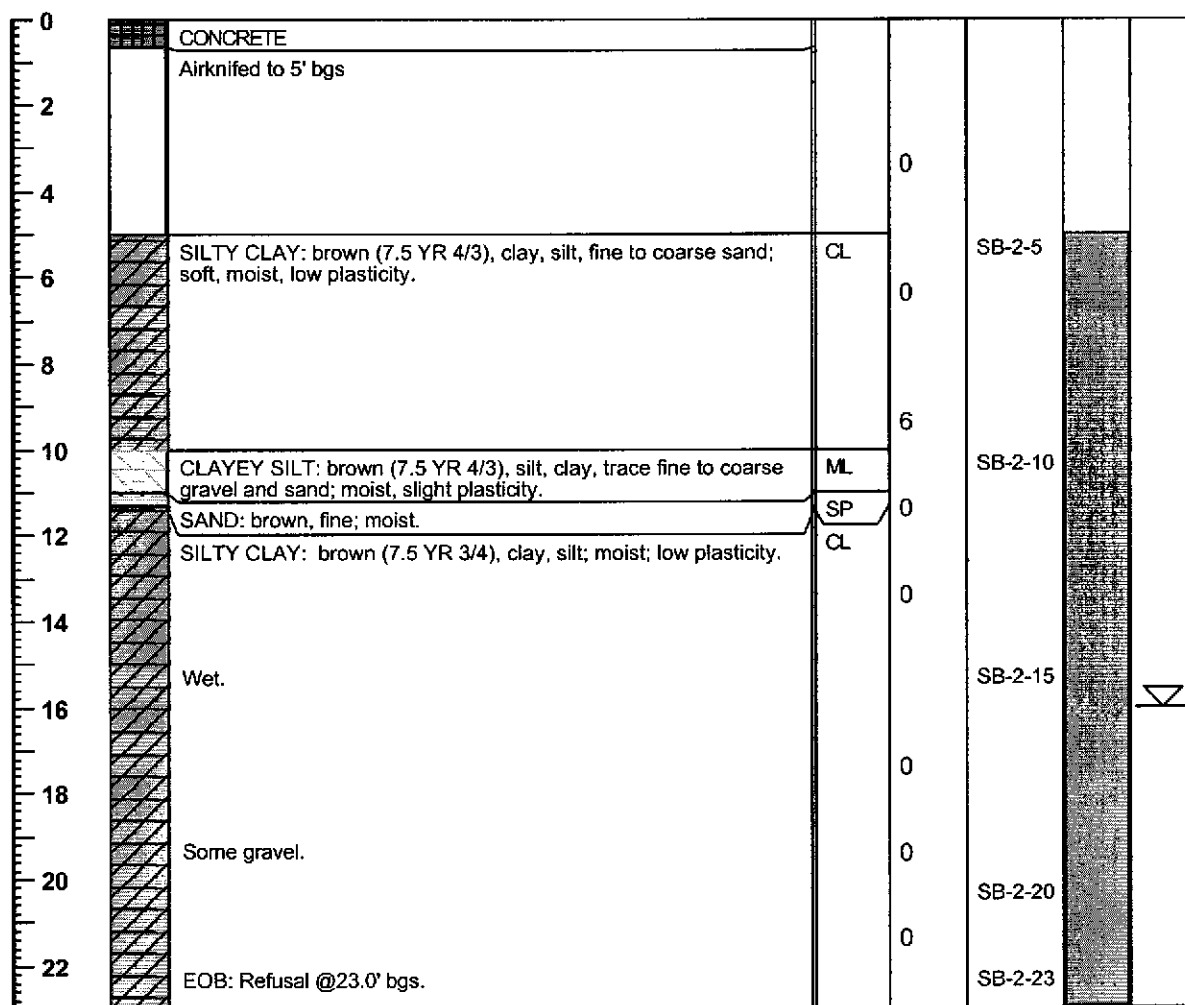
Total Depth: 23.0'

PROJECT INFORMATION	DRILLING INFORMATION
Project: Soil and Water Investigation	Drilling Company: Gregg Drilling and Testing, Inc.
Site Location: 3310 Park Blvd., Oakland, CA	Driller: Paul Rogers
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe
C.Hg.: James Durkin	Drilling Method: 2" Direct Push
Geologist: Chris Sheridan	Sampling Method: Continuous Core
Job Number: 38486908.0013601	Date(s) Drilled: 3/30/04

BORING INFORMATION

Groundwater Depth: 16'	Boring Location: Under east corner of canopy
Air Knife Depth: 5 feet	Boring Diameter: 2"
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
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1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

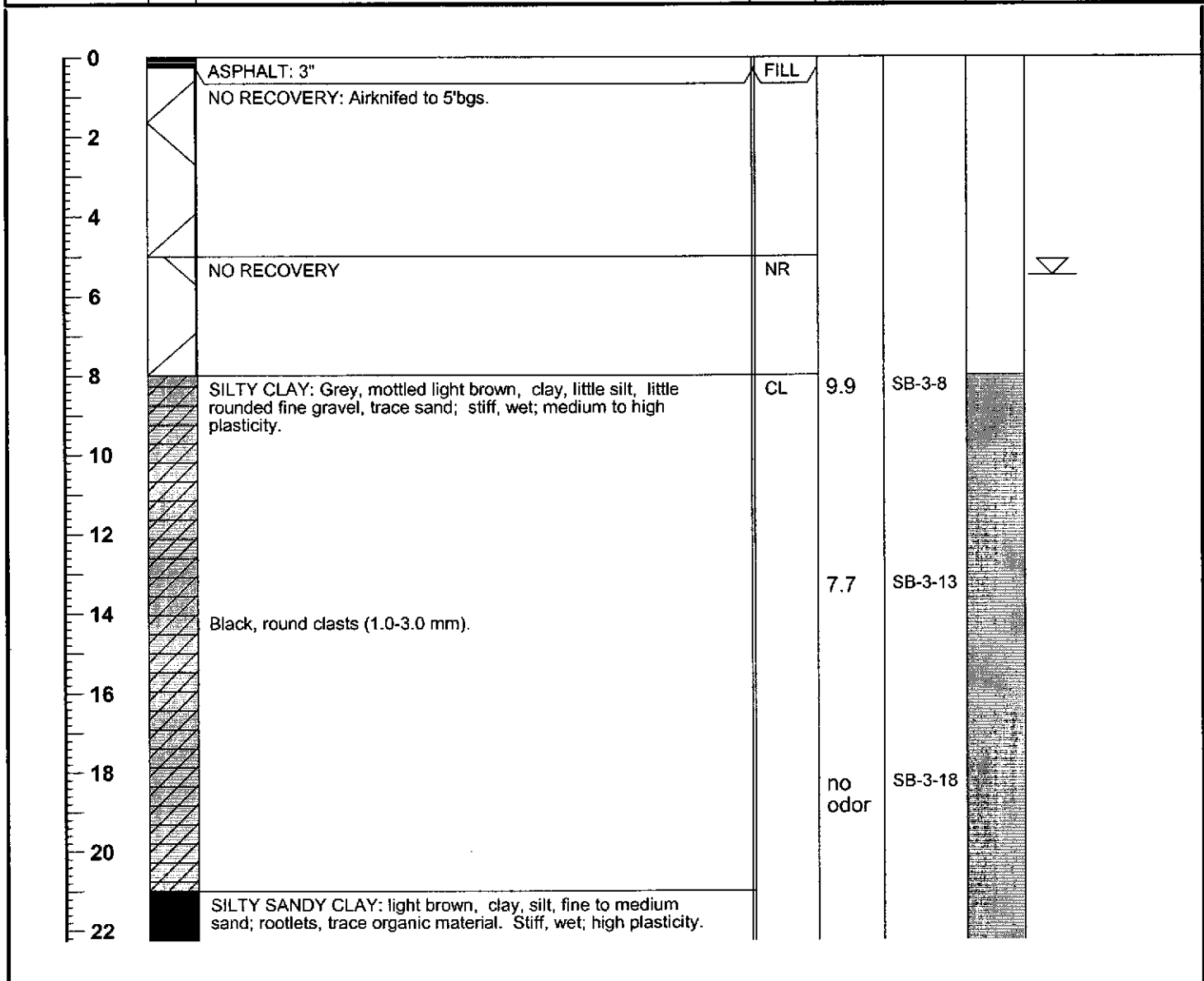
Borehole ID: SB-3

Total Depth: 32.0 ft. bgs

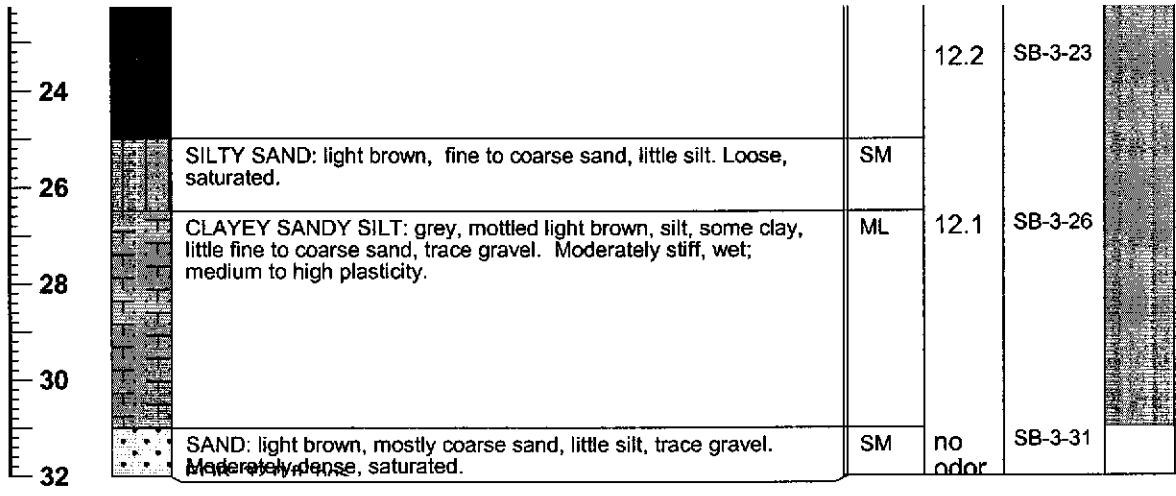
PROJECT INFORMATION	DRILLING INFORMATION
Project: Soil and Water Investigation	Drilling Company: Gregg Drilling and Testing, Inc.
Site Location: 3310 Park Blvd., Oakland, CA	Driller: Paul Rogers
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe
C.Hg.: James Durkin	Drilling Method: 2" Direct Push
Geologist: Kevin Uno	Sampling Method: Continuous Core
Job Number: 38486908.0013601	Date(s) Drilled: 5/7/04

BORING INFORMATION	
Groundwater Depth: 5.5 ft. bgs	Boring Location: Parking stall across from pump #6.
Air Knife Depth: 5 feet	Boring Diameter: 2"
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
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Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
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1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SB-4

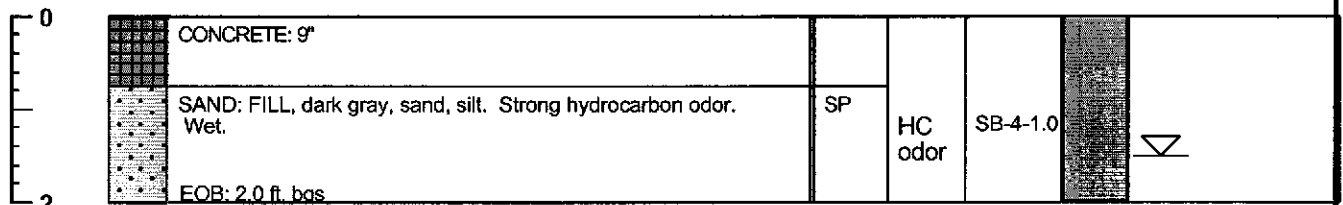
Total Depth: 2.0 ft. bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: Soil and Water Investigation	Drilling Company: Gregg Drilling and Testing, Inc.
Site Location: 3310 Park Blvd., Oakland, CA	Driller: Paul Rogers
Project Manager: Scott Robinson	Type of Drilling Rig: Hand Auger
C.Hg.: James Durkin	Drilling Method: Hand Auger
Geologist: Kevin Uno	Sampling Method: Hand packed brass tube.
Job Number: 38486908.0013601	Date(s) Drilled: 5/7/04

BORING INFORMATION

Groundwater Depth: 2.0 ft. bgs	Boring Location: Sidewalk along Park Blvd.
Air Knife Depth: NA	Boring Diameter: 2 inch
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
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1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

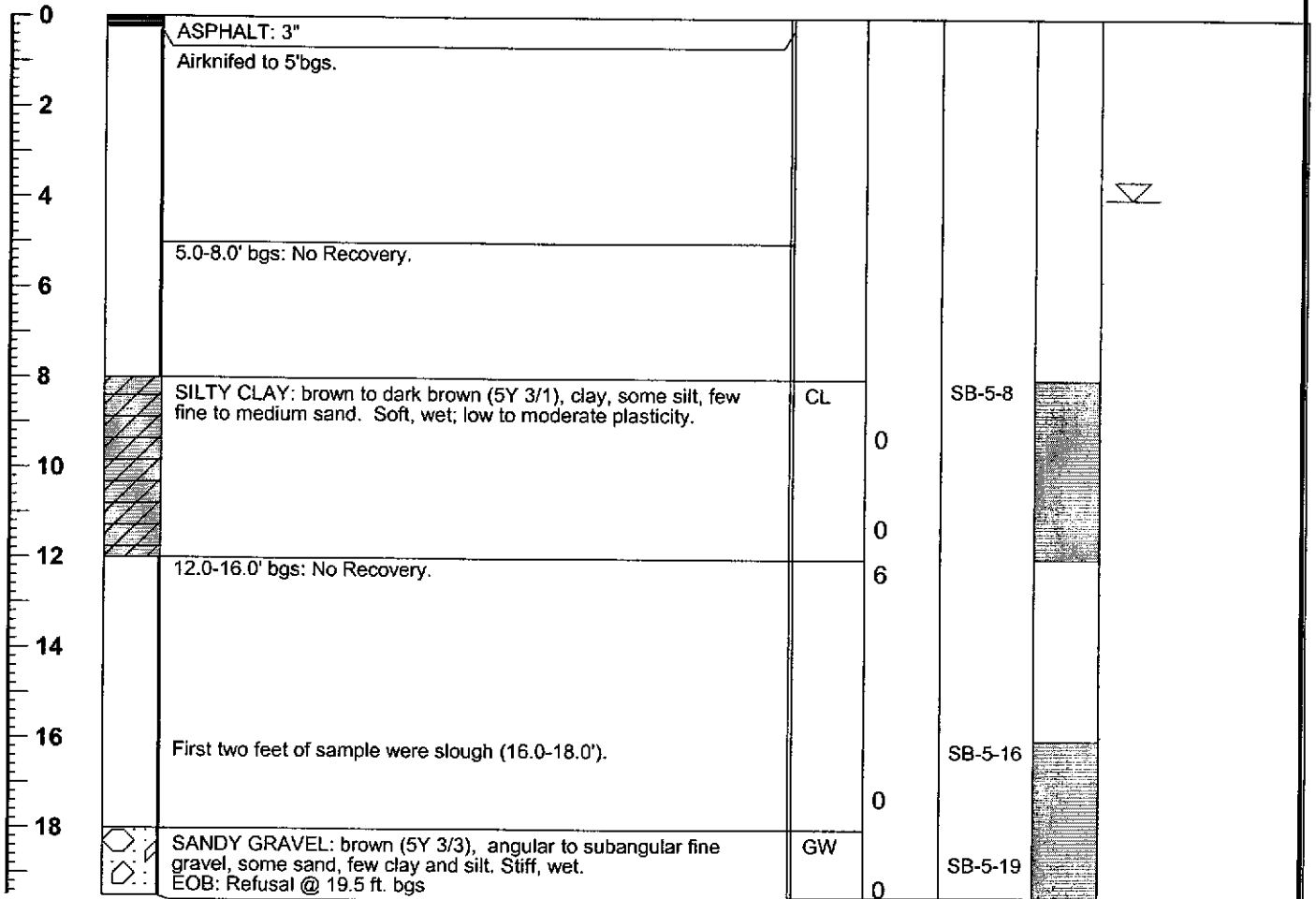
Borehole ID: SB-5

Total Depth: 19.5'

PROJECT INFORMATION	DRILLING INFORMATION
Project: Soil and Water Investigation	Drilling Company: Gregg Drilling and Testing, Inc.
Site Location: 3310 Park Blvd., Oakland, CA	Driller: Paul Rogers
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe
C.Hg.: James Durkin	Drilling Method: 2" Direct Push
Geologist: Chris Sheridan	Sampling Method: Continuous Core
Job Number: 38486908.0013601	Date(s) Drilled: 3/30/04

BORING INFORMATION	
Groundwater Depth: 4.0'	Boring Location: Sidewalk along Park Blvd near intersection w/E 34th St.
Air Knife Depth: 5 feet	Boring Diameter: 2"
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
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1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SB-6

Total Depth: 2.0 ft. bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: Soil and Water Investigation	Drilling Company: Gregg Drilling and Testing, Inc.
Site Location: 3310 Park Blvd., Oakland, CA	Driller: Paul Rogers
Project Manager: Scott Robinson	Type of Drilling Rig: Hand Auger
C.Hg.: James Durkin	Drilling Method: Hand Auger
Geologist: Kevin Uno	Sampling Method: Hand packed brass tube.
Job Number: 38486908.0013601	Date(s) Drilled: 5/7/04

BORING INFORMATION

Groundwater Depth: 2.0 ft. bgs	Boring Location: Sidewalk along Park Blvd.
Air Knife Depth: NA	Boring Diameter: 2 inch
Coordinates: X Y	Boring Type: Exploratory

Depth (ft. bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
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