

February 15, 2005

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Alameda County
Environmental Health
FEB 18 2005

**Re: Site Assessment Report
ARCO Service Station # 0498
286 South Livermore Avenue, Livermore, California**

Dear Mr. Schultz,

URS Corporation Americas (URS) has prepared this report on behalf of Atlantic Richfield Company, Remediation Management (RM-a BP-affiliated company), to document assessment activities conducted at ARCO Service Station # 0498 at 286 South Livermore Avenue, Livermore, California (site) (Figure 1). The purpose of the assessment was to fulfill a due diligence audit as part of the sale of the ARCO property. Field activities were conducted to assess whether subsurface soils in the vicinity of the underground storage tanks (USTs) and fuel dispensers have been impacted by petroleum hydrocarbons. The work was not required as part of any regulatory agency directive.

1.0 SITE BACKGROUND

The site is operated as an ARCO gasoline station. The site is bound by South Livermore Avenue to the southwest, 3RD Street to the southeast, and residential/commercial property to the northeast and northwest. Current site features include an AM/PM Mini Mart, three USTs, and product dispensers. The USTs, product dispensers, and boring locations are shown on Figure 2.

1.1 PREVIOUS WORK

In June 2001, Delta Environmental Consultants, Inc. (Delta), conducted a product line and dispenser upgrade. Along with the upgrade, Delta also took soil samples beneath the product line and dispensers. Soil samples were analyzed for total purgeable hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE), and lead.

TPH-g was detected in two of the four dispenser island samples at 1.8 milligrams per kilogram (mg/kg) (DP-1) and 87 mg/kg (DP-3). TPH-g was not detected at or above the laboratory-reporting limits in any of the product line samples.

Benzene was detected at 0.11 mg/kg in DP-3. Benzene was not detected at or above the laboratory-reporting limits in any of the other dispenser or product line samples.

MTBE was detected at 3.7 mg/kg in DP-3. MTBE was not detected at or above the laboratory-reporting limits in any of the other dispenser or product line samples.

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2.0 ASSESSMENT ACTIVITIES AND FINDINGS

On January 19, 2005, through January 21, 2005, eight soil borings were advanced by Cascade Drilling, Inc. of Rancho Cordova, California. The soil borings were completed by using a direct push Geoprobe® 6600 drill rig with continuous core sampling using a 2-inch inside diameter (ID) and 1-inch ID sampler. All down hole sampling equipment was decontaminated between borings by washing in a non-phosphate soap and deionized water solution.

Due to lithological types (sands and gravels) and unforeseen equipment failures, it was determined in the field to only advance the soil borings to a maximum depth of 25 ft bgs instead of the proposed 30 ft bgs.

Four soil borings (SB-1 through SB-4) were advanced in the vicinity of the USTs between 22 and 25 feet below ground surface (ft bgs): SB-1 (24ft bgs), SB-2 (22 ft bgs), SB-3 (25 ft bgs), and SB-4 (26ft bgs).

Four soil borings (SB-5 through SB-8) were advanced in the vicinity of the product dispensers. SB-5 was advanced to 15 ft bgs (sampler was lost down hole), SB-7 was advanced to 20 ft bgs (refusal at 20 ft bgs), SB-6 was advanced to 24 ft bgs, and SB-8 was advanced to 25 ft bgs.

After the soil borings were completed, they were abandoned by filling the boreholes with neat cement grout up to the ground surface. The surface was repaired to match pre-drilling conditions.

One 55-gallon, Department of Transportation (DOT) approved, steel drum of soil cuttings was generated during this investigation. Disposal documentation will be provided in an addendum to this report.

2.1 SUBSURFACE CONDITIONS

Soil encountered during drilling consisted primarily of poorly graded fine to coarse sands and gravels with interbeddings of clayey/silty sands, and silty clays. Cobbles were encountered in all of the soil borings. A URS geologist classified the soils using the Unified Soil Classification System. Boring logs are presented as Attachment A.

2.2 SOIL SAMPLING AND ANALYSIS

Soil samples were collected in one of two soil samplers, depending on availability. A two-foot sampler with a 1-inch ID with acrylic liners was used for soil borings SB-1 and SB-4. A five-foot sampler with a 2-inch ID with acrylic liners was used for soil borings SB-2, SB-3, SB-5, SB-7, and SB-8. Both samplers were used in boring SB-6.

Soil samples for lithological analysis were collected every five feet in two-foot intervals while using the two foot sampler and they were collected continuously while using the five foot sampler.

Soil samples for laboratory analysis were collected every five feet. Once collected, soil samples were capped with Teflon® tape and plastic end caps, labeled, sealed in clean zip-lock bags, and placed in a cooler on ice for delivery to Severn Trent Laboratories in Pleasanton, California, under chain-of-custody. A photoionization detector (PID) was used to field screen soil samples for the presence of volatile organic compounds (VOCs).

Soil samples were analyzed for gasoline range organics (GRO), benzene, ethylbenzene, toluene, and xylenes, (BTEX), methyl-tert butyl ether (MTBE), tert butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), ethanol, and 1,2-dibromomethane (EDB) by U.S. EPA Method 8260B.

2.3 SOIL ANALYTICAL RESULTS

Analytical results for the selected soil samples reported GRO and BTEX as below laboratory detection limits in all of the samples analyzed. MTBE and TBA were detected four soil samples (SB-1-22', SB-1-24', SB-3-25', and SB-8-25'). MTBE concentrations ranged from 0.006 milligrams per kilogram (mg/kg) (SB-1-24') to 0.022 mg/kg (SB-8-25'). TBA concentrations ranged from 0.012 mg/kg (SB-8-25') to 0.031 mg/kg (SB-1-22'). No other analytes were detected at or above the laboratory reporting limit. Soil analytical data is summarized in Table 1 and Table 2. Laboratory analytical reports and chain-of-custody documentation are included in Attachment B.

It should be noted that all soil detections were below California Regional Water Quality Control Board Environmental Screening Levels (ESLs) for shallow and deep soils where groundwater is a potential source of drinking water (MTBE-0.023 mg/kg and TBA-0.073 mg/kg).

Mr. Robert Schultz
Alameda County Environmental Health
June 15, 2004

3.0 CONCLUSIONS AND RECOMMENDATIONS

Analytical results for soil samples collected from borings in the vicinity of the USTs and fuel dispensers have shown minimal MTBE and TBA detections in three soil borings (SB-1, SB-3, and SB-8) or are reported as below their laboratory detection limits. URS recommends no further action be taken at the site.

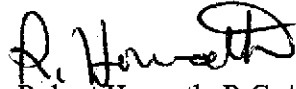
If you have any questions or comments regarding this work plan, please call Mr. Scott Robinson at (510) 874-3280.

Sincerely,

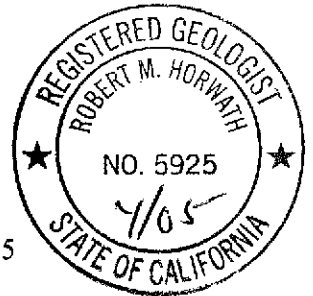
URS CORPORATION



Scott Robinson
Project Manager



Robert Horwath, R.G. #5925
Portfolio Manager



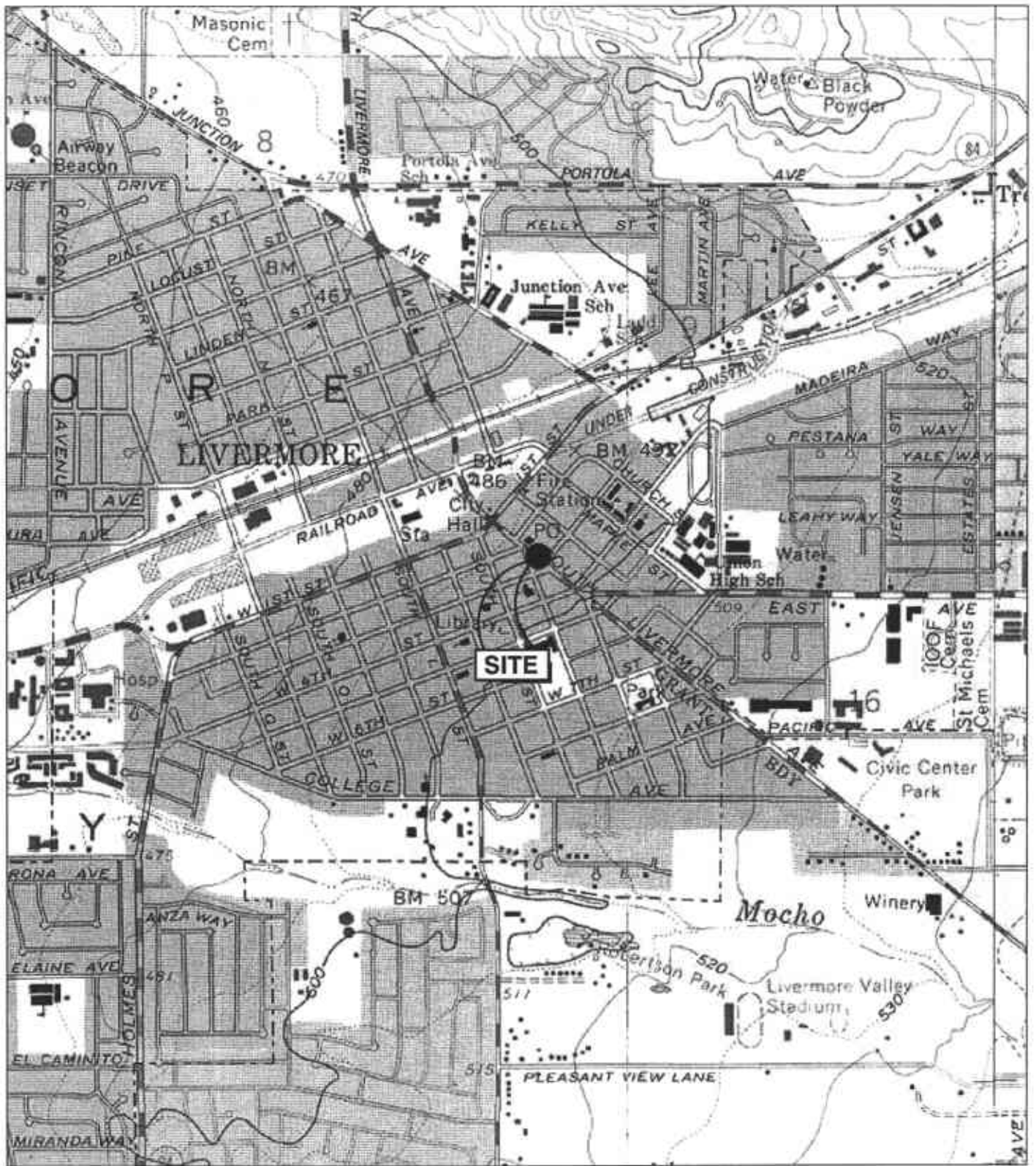
Attachments:

- Figure 1 Site Location Map
- Figure 2 Soil Sample Location Map

- Table 1 Soil Analytical Data
- Table 2 Soil Analytical Data-Oxygenates

- Attachment A Soil Boring Log Details
- Attachment B Soil Laboratory Analytical Reports

cc. Mr. Paul Supple, Atlantic Richfield Company (electronic copy uploaded to ENFOS)
Ms. Kateri Luka, Atlantic Richfield Company (electronic copy uploaded to ENFOS)
Wyman Hong, Zone 7 Water Agency, 5997 Parkside Drive, Pleasanton, California
94588
Project Files



REFERENCE:

BASE MAP FROM USGS TOPO!
NORTH REGION 7

7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1998



QUADRANGLE LOCATION



NORTH



APPROXIMATE SCALE 1" = 1400'

Feb 04, 2005 - 1:39pm X:\x_envi\workspace\GIS\Stites\Stites\Baseline\Investment\Assessment\SITE.MAP.dwg



Project No. 38487288
ARCO Service Station #0498
268 South Livermore Avenue
Livermore, California

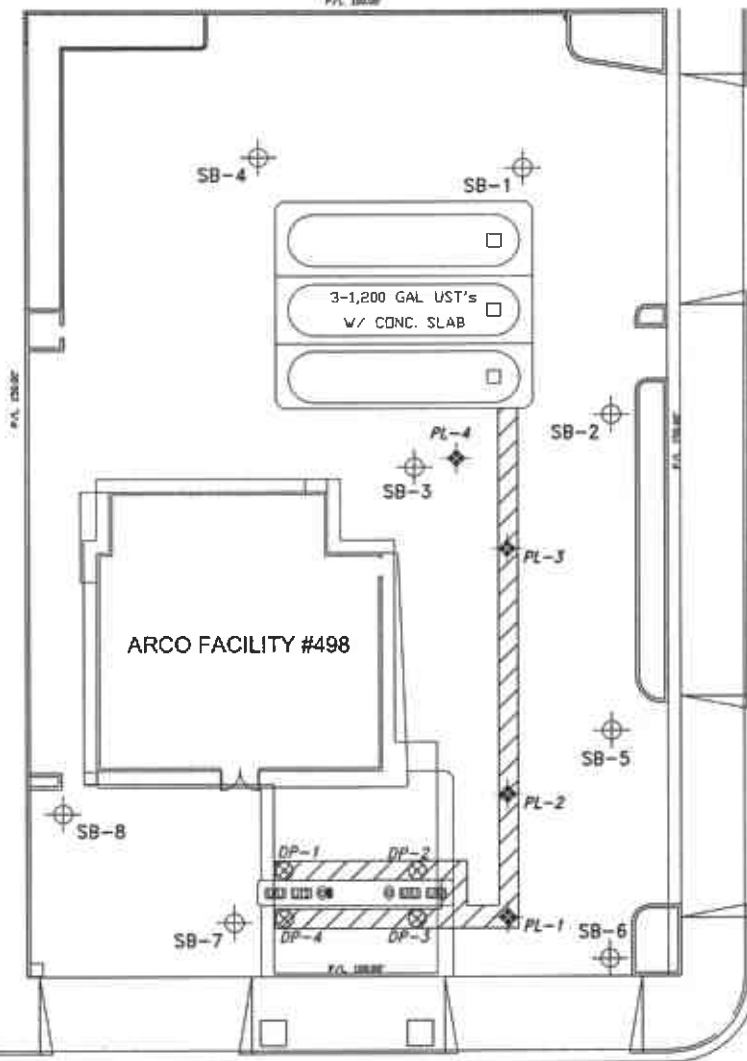
SITE LOCATION MAP

FIGURE

1

RESIDENTIAL PROPERTY

P.L. 1000'



TRI-VALLEY OPTOMETRY

ARCO FACILITY #498

3rd STREET

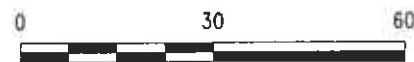
LIVERMORE SAWES

FORMER SHELL STATION

SOUTH LIVERMORE AVE.



NORTH



APPROXIMATE SCALE 1" = 30'

BANK

DUTCH TREAT NEEDLE CRAFT

LEGEND

- SOIL BORING
- FORMER PRODUCT LINE SOIL SAMPLE (DELTA 2001)
- FORMER DISPENSER PUMP SOIL SAMPLE (DELTA 2001)
- PRODUCT LINE EXCAVATION TRENCH

NOTE: SITE MAP ADAPTED FROM WATSON WEST AND DELTA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

Project No. 36487288

ARCO Service Station #0498
268 South Livermore Avenue
Livermore, California

SOIL SAMPLE LOCATION MAP

FIGURE

2

URS

Tables

Table 1 - Soil Analytical Data
ARCO Service Station #0498
286 South Livermore Avenue, Livermore California

Sample Name	Sample Depth (ft)	Date Sampled	TPH-GRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
SB-1-7'	7.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-1-12'	12.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-1-17'	17.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-1-22'	22.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-1-24'	24.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-2-10'	10.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-2-15'	15.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-2-18.5'	18.5	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-3-10'	10.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-3-15'	15.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-3-20'	20.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-3-25'	25.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-4-7'	7.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-4-12'	12.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-4-17'	17.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-4-22'	22.0	01/19/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-5-10'	10.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-5-15'	15.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-6-10'	10.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-6-15'	15.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-6-22'	22.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-7-10'	10.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-7-14.5'	14.5	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-7-20'	20.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-8-10'	10.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-8-15'	15.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-8-20'	20.0	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-8-25'	25	01/20/05	ND <1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005

Notes:

- ND = Not Detected at or above the laboratory reporting limit
- mg/kg = milligrams per kilogram
- TPH-GRO = Total Petroleum Hydrocarbons gasoline range organics
- BTEX = Benzene, toluene, ethylbenzene, and xylenes

Table 2 Soil Analytical Data-Oxygenates
ARCO Service Station #0498
286 South Livermore Avenue, Livermore California

Sample Name	Sample Depth (ft)	Date Sampled	Ethanol (mg/kg)	TBA (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
SB-1-7'	7.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-1-12'	12.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-1-17'	17.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-1-22'	22.0	01/20/05	ND <0.1	0.031	0.015	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-1-24'	24.0	01/20/05	ND <0.1	0.025	0.006	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-2-10'	10.0	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-2-15'	15.0	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-2-18.5'	18.5	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-3-10'	10.0	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-3-15'	15.0	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-3-20'	20.0	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-3-25'	25.0	01/19/05	ND <0.1	0.021	0.011	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-4-7'	7.0	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-4-12'	12.0	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-4-17'	17.0	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-4-22'	22.0	01/19/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-5-10'	10.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-5-15'	15.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-6-10'	10.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-6-15'	15.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-6-22'	22.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-7-10'	10.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-7-14.5'	14.5	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-7-20'	20.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-8-10'	10.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-8-15'	15.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-8-20'	20.0	01/20/05	ND <0.1	ND <0.01	ND <0.005	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005
SB-8-25'	25	01/20/05	ND <0.1	0.012	0.022	ND <0.01	ND <0.005	ND <0.005	ND <0.005	ND <0.005

Notes:

- ND = Not Detected at or above the laboratory reporting limit
- mg/kg = milligrams per kilogram
- TBA = Tert-butyl alcohol
- MTBE = Methyl tertiary butyl ether
- DIPE = Di-isopropyl ether
- ETBE = Ethyl tertiary butyl ether
- TAME = Tert-amyl methyl ether
- 1,2-DCA = 1,2-Dichloroethane
- EDB = 1,2-Dibromoethane

ATTACHMENT A

Soil Boring Log Details



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SB-1

Total Depth: 24 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: ARCO Site 0498-Livermore	Drilling Company: Cascade Drilling
Site Location: 286 S. Livermore Ave., Livermore, CA	Driller: Tom Evans
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe 6600
RG: Bob Horwath	Drilling Method: Direct Push
Geologist: Jacob Henry	Sampling Method: Continuous
Job Number: 38487288	Date(s) Drilled: 1/20/05

BORING INFORMATION

Groundwater Depth: NA	Boring Location: 286 S. Livermore Ave., Livermore, CA
Air Knife or Hand Auger Depth: 5 ft bgs	Boring Diameter: 2 in
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0							Surface conditions- Asphalt
2							Air Knifed to a Depth of 5 ft.
4							
6		SANDY GRAVEL: 2.5Y3/2, very dark grayish brown, loose, very fine to coarse sand, fine gravels, minor coarse gravels (subangular to angular), minimal fines, dry.	SP	0.0	SB1-7'		
8							
10		Same as above, no coarse gravels					
12				0.5	SB1-12'		
14							
16		Increase in fines (silt/clay) content, color change to 10Y4/1, dark greenish gray, odor.					
18				0.5	SB1-17'		
20							
22		CLAYEY SAND: 10Y4/1, dark greenish gray, moderately dense, fine to medium sand with minor coarse sand, fine gravels, low plasticity, dry to damp, odor.	SC	9.7	SB1-22'		
24				11.3	SB1-24'		Borings terminated at 24 ft bgs
26							



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SB-2

Total Depth: 22 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: ARCO Site 0498-Livermore	Drilling Company: Cascade Drilling
Site Location: 286 S. Livermore Ave., Livermore, CA	Driller: Tom Evans
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe 6600
RG: Bob Horwath	Drilling Method: Direct Push
Geologist: Jacob Henry	Sampling Method: Continuous
Job Number: 38487288	Date(s) Drilled: 1/20/05

BORING INFORMATION	
Groundwater Depth: NA	Boring Location: 286 S. Livermore Ave., Livermore, CA
Air Knife or Hand Auger Depth: 5 ft bgs	Boring Diameter: 2 in
Coordinates: X Y	Boring Type: Exploratory

Depth (ft. bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0							Surface conditions- Asphalt
2							Air Knifed to a Depth of 5 ft.
4							
6	^	GRAVELLY SAND: 2.5Y3/3, dark olive brown, loose, medium to coarse sand, coarse gravels (angular to subangular), no fines, damp.	SP				
8	^						
10	^	Same as above, minor fines, solid rock (quartz).		0.5	SB2-10'		
12	^						
14	^						
16	o	SANDY GRAVEL: 2.5Y5/3, light olive brown, dense, coarse gravel (1.5" +), coarse sand. Gravel greater than 2" diameter, possible cobbles (subrounded to aubangular), minor fines, damp.	GW	10.7	SB2-15'		
18	o			17.8	SB2-18.5'		
20	o	Same as above, increased fines, some gravel clast greater than 2" diameter.		22.2			
22	o	Increased fines.		7901			Borings terminated at 22 ft bgs
24							
26							



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SB-3

Total Depth: 25 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: ARCO Site 0498-Livermore	Drilling Company: Cascade Drilling
Site Location: 286 S. Livermore Ave., Livermore, CA	Driller: Tom Evans
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe 6600
RG: Bob Horwath	Drilling Method: Direct Push
Geologist: Jacob Henry	Sampling Method: Continuous
Job Number: 38487288	Date(s) Drilled: 1/20/05

BORING INFORMATION	
Groundwater Depth: NA	Boring Location: 286 S. Livermore Ave., Livermore, CA
Air Knife or Hand Auger Depth: 5 ft bgs	Boring Diameter: 2 in
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0							Surface conditions- Asphalt
2							Air Knifed to a Depth of 5 ft.
4							
6	^	GRAVELLY SAND: 2.5Y4/4, olive brown, dense, coarse sand, minor medium sand, fine gravels with rare coarse gravels (subangular to subrounded), minor non-plastic fines, damp.	SP				Borings terminated at 25 ft bgs
8	^						
10	^	Increased fines (clay) content, medium to coarse sand, fine gravels, dry to damp.		2.5	SB3-10'		
12	^						
14	^			12.4	SB3-15'		
16	^	Color change to 2.5Y5/2, light olive brown, medium sand, fine gravels, damp, odor.					
18	^						
20	^			26	SB3-20'		
22	^						
24	^	Increased fines.					
26				114	SB3-25'		



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: SB-4

Total Depth: 26 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: ARCO Site 0498-Livermore	Drilling Company: Cascade Drilling
Site Location: 286 S. Livermore Ave., Livermore, CA	Driller: Tom Evans
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe 6600
RG: Bob Horwath	Drilling Method: Direct Push
Geologist: Jacob Henry	Sampling Method: Continuous
Job Number: 38487288	Date(s) Drilled: 1/20/05

BORING INFORMATION	
Groundwater Depth: NA	Boring Location: 286 S. Livermore Ave., Livermore, CA
Air Knife or Hand Auger Depth: 5 ft bgs	Boring Diameter: 2 in
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0							Surface conditions- Asphalt
2							
4							Air Knifed to a Depth of 5 ft.
6	^	GRAVELLY SAND: 2.5Y5/4, light olive brown, loose, fine to coarse sand, coarse gravel (0.75 to 1'), angular to subangular, no fines, dry.	GW	0.0	SB4-7'		
8	^						
10	^	2.5Y4/4, light brown, moderately dense, fine to coarse sand, fine gravels, angular to subangular, low plasticity, dry to damp.	GC	28.8	SB4-12'		
12	^						
14	^						
16	^	SANDY SILT: 2.5Y4/4, olive brown, firm, low plasticity, very fine to fine sand, dry to damp.	ML	35.5	SB4-17'		
18	^						
20	^	GRAVELLY SAND: 2.5Y4/4, olive brown, moderately dense, fine to coarse sand, coarse gravel (0.75' +), angular to subangular, no to low plasticity, dry to damp.	GC	22.2	SB4-22'		
22	^						
24	^						
26	^						Borings terminated at 26 ft bgs Lost rods and sampler down hole.



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LOG OF BORING

Borehole ID: SB-5

Total Depth: 15 ft bgs

PROJECT INFORMATION		DRILLING INFORMATION	
Project: ARCO Site 0498-Livermore		Drilling Company: Cascade Drilling	
Site Location: 286 S. Livermore Ave., Livermore, CA		Driller: Tom Evans	
Project Manager: Scott Robinson		Type of Drilling Rig: Geoprobe 6600	
RG: Bob Horwath		Drilling Method: Direct Push	
Geologist: Jacob Henry		Sampling Method: Continuous	
Job Number: 38487288		Date(s) Drilled: 1/20/05	

BORING INFORMATION

Groundwater Depth: NA	Boring Location: 286 S. Livermore Ave., Livermore, CA
Air Knife or Hand Auger Depth: 5 ft bgs	Boring Diameter: 2 in
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0							Surface conditions- Asphalt
2							Air Knifed to a Depth of 5 ft.
4							
6		CLAYEY SAND: 2.5Y3/3, dark olive brown, moderately dense, fine to medium sand, rare coarse sand, fine to coarse gravel (subangular to subrounded), low plasticity fines, dry.	SC				
8							
10				0.5	SB5-10'		
12		Increase in fine to coarse gravel content, rare cobbles.					
14		SANDY CLAY: 10YR4/4, dark yellowish brown, very hard, low plasticity, very fine to fine sand, dry.	CL	19.5	SB5-15'		Lost sampler down hole.
16							
18							
20							
22							
24							
26							Borings terminated at 15 ft bgs



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LOG OF BORING

Borehole ID: SB-6

Total Depth: 24 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: ARCO Site 0498-Livermore	Drilling Company: Cascade Drilling
Site Location: 286 S. Livermore Ave., Livermore, CA	Driller: Tom Evans
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe 6600
RG: Bob Horwath	Drilling Method: Direct Push
Geologist: Jacob Henry	Sampling Method: Continuous
Job Number: 38487288	Date(s) Drilled: 1/20/05

BORING INFORMATION

Groundwater Depth: NA	Boring Location: 286 S. Livermore Ave., Livermore, CA
Air Knife or Hand Auger Depth: 5 ft bgs	Boring Diameter: 2 in
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0							Surface conditions- Asphalt
2							Air Knifed to a Depth of 5 ft.
4							
6	^	GRAVELLY SAND: 2.5Y5/3, light olive brown, loose, fine to coarse sand, fine gravels (subrounded to subangular), non-plastic fines (minor fines), dry.	SP				
8	^						
10	^			0.0	SB6-10'		
12	^						
14	⋮	CLAYEY SAND: 2.5Y4/3, olive brown, dense, low plasticity fines, very fine to fine sand, dry.	SC	1.0	SB6-15'		
16		No Recovery from 15 to 20 feet bgs. Shoe of sampling rod contained: Sandy Clay: 2.5Y5/4, light olive brown, very hard, very fine to fine sand, low plasticity, dry.					
18				14			
20	⋮	CLAYEY SAND: Same as above.					
22	⋮			18.9	SB6-22'		
24	▨	SILTY CLAY: 5GY4/1, dark greenish gray, very hard, low plasticity, very fine to fine sands, dry, odor.	ML	11.8	SB6-24'		Borings terminated at 24 ft bgs
26							



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LOG OF BORING

Borehole ID: SB-7

Total Depth: 20 ft bgs

PROJECT INFORMATION		DRILLING INFORMATION	
Project: ARCO Site 0498-Livermore		Drilling Company: Cascade Drilling	
Site Location: 286 S. Livermore Ave., Livermore, CA		Driller: Tom Evans	
Project Manager: Scott Robinson		Type of Drilling Rig: Geoprobe 6600	
RG: Bob Horwath		Drilling Method: Direct Push	
Geologist: Jacob Henry		Sampling Method: Continuous	
Job Number: 38487288		Date(s) Drilled: 1/20/05	

BORING INFORMATION

Groundwater Depth: NA	Boring Location: 286 S. Livermore Ave., Livermore, CA
Air Knife or Hand Auger Depth: 5 ft bgs	Boring Diameter: 2 in
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0							Surface conditions- Asphalt
2							Air Knifed to a Depth of 5 ft.
4							
6	^	GRAVELLY SAND: 2.5Y6/2, light yellowish brown, loose, fine to coarse sand, fine gravels (subangular to subrounded), minimal fines, dry.	SP				
8	^						
10	^			11.3	SB7-10'		
12	^	Increase in fines (clay), minor coarse gravels (subangular).					
14	^						
16	/	SANDY SILTY CLAY: 10YR4/4, dark yellowish brown, very hard, low plasticity, very fine to fine sand, minor coarse sand, minor coarse gravels, dry.	CL	16.7	SB7-14.5'		
18	/	Color change to 10YR4/4, dark yellowish brown, very hard, increased silt content, decreased fine gravel (rounded), fine sand, rare coarse sand (rounded), dry.					
20		Refusal at 20 ft. bgs.		27.1	SB7-20'		Borings terminated at 20 ft bgs
22							
24							
26							



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LOG OF BORING

Borehole ID: SB-8

Total Depth: 25 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project: ARCO Site 0498-Livermore	Drilling Company: Cascade Drilling
Site Location: 286 S. Livermore Ave., Livermore, CA	Driller: Tom Evans
Project Manager: Scott Robinson	Type of Drilling Rig: Geoprobe 6600
RG: Bob Horwath	Drilling Method: Direct Push
Geologist: Jacob Henry	Sampling Method: Continuous
Job Number: 38487288	Date(s) Drilled: 1/20/05

BORING INFORMATION

Groundwater Depth: NA	Boring Location: 286 S. Livermore Ave., Livermore, CA
Air Knife or Hand Auger Depth: 5 ft bgs	Boring Diameter: 2 in
Coordinates: X Y	Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Sample ID	Recovery	Comments
0							Surface conditions- Asphalt
2							Air Knifed to a Depth of 5 ft.
4							
6	^	GRAVELLY SAND: 2.5Y5/3, light olive brown, loose, fine to medium sand, minor coarse sand, fine to coarse gravels (subangular to subrounded), minor fines, dry.	SP				
8	^						
10	^			14	SB8-10'		
12	^						
14	■	SANDY CLAY: 10YR4/2, brown, very hard, low plasticity, very fine to fine sand (subrounded), dry to damp.	CL	16.7	SB8-15'		
16	□	CLAYEY SAND: 2.5Y4/3, olive brown, moderately dense, fine to medium sand, rare coarse sand, rare fine gravels (rounded to subrounded), low plasticity fines, dry to damp.	SC				
18		Color change to 10Y5/1, greenish gray, odor.					
20	■	SANDY CLAYEY GRAVEL: 10Y4/1, dark greenish gray, loose, medium to coarse sand, fine to coarse gravels (subangular to angular), non-plastic fines, damp to moist, odor.	GC	14	SB8-20'		
22							
24							
26				21.1	SB8-25'		Borings terminated at 25 ft bgs

ATTACHMENT B

Soil Laboratory Analytical Reports

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: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB1-7'	01/20/2005 16:20	Soil	2
SB1-12'	01/20/2005 16:29	Soil	3
SB1-17'	01/20/2005 16:38	Soil	4
SB1-22'	01/20/2005 16:50	Soil	5
SB1-24'	01/20/2005 17:02	Soil	6
SB5-10'	01/20/2005 13:40	Soil	7
SB5-15'	01/20/2005 13:50	Soil	8
SB6-10'	01/20/2005 14:40	Soil	9
SB6-15'	01/20/2005 14:50	Soil	10
SB6-22'	01/20/2005 15:35	Soil	11
SB7-10'	01/20/2005 09:04	Soil	13
SB7-14.5'	01/20/2005 09:20	Soil	14
SB7-20'	01/20/2005 09:40	Soil	15
SB8-10'	01/20/2005 10:40	Soil	16
SB8-15'	01/20/2005 10:50	Soil	17
SB8-20'	01/20/2005 11:05	Soil	18
SB8-25'	01/20/2005 11:30	Soil	19

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01/28/2005 16:02

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: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB1-7	Lab ID:	2005-01-0516 - 2
Sampled:	01/20/2005 16:20	Extracted:	1/22/2005 03:54 1/24/2005 22:34
Matrix:	Soil	QC Batch#:	2005/01/21-2A.66 2005/01/24-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 22:34	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 03:54	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 03:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 03:54	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 03:54	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 03:54	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 03:54	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 03:54	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 03:54	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 03:54	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 03:54	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 03:54	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 03:54	
Surrogate(s)						
1,2-Dichloroethane-d4	95.5	72-124	%	1.00	01/24/2005 22:34	
1,2-Dichloroethane-d4	124.5	72-124	%	1.00	01/22/2005 03:54	LH
Toluene-d8	88.5	75-116	%	1.00	01/24/2005 22:34	
Toluene-d8	110.6	75-116	%	1.00	01/22/2005 03:54	

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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: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB1-12	Lab ID:	2005-01-0516 - 3
Sampled:	01/20/2005 16:29	Extracted:	1/22/2005 12:52 1/24/2005 09:14
Matrix:	Soil	QC Batch#:	2005/01/22-1B.66 2005/01/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 09:14	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 12:52	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 12:52	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 12:52	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 12:52	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 12:52	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 12:52	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 12:52	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 12:52	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 12:52	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 12:52	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 12:52	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 12:52	
Surrogate(s)						
1,2-Dichloroethane-d4	120.2	72-124	%	1.00	01/22/2005 12:52	
1,2-Dichloroethane-d4	111.8	72-124	%	1.00	01/24/2005 09:14	
Toluene-d8	110.0	75-116	%	1.00	01/22/2005 12:52	
Toluene-d8	96.7	75-116	%	1.00	01/24/2005 09:14	

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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: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB1-17	Lab ID:	2005-01-0516 - 4
Sampled:	01/20/2005 16:38	Extracted:	1/22/2005 13:14 1/24/2005 09:35
Matrix:	Soil	QC Batch#:	2005/01/22-1B.66 2005/01/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 09:35	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 13:14	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 13:14	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 13:14	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 13:14	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 13:14	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 13:14	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 13:14	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 13:14	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 13:14	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 13:14	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 13:14	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 13:14	
Surrogate(s)						
1,2-Dichloroethane-d4	116.4	72-124	%	1.00	01/24/2005 09:35	
1,2-Dichloroethane-d4	120.6	72-124	%	1.00	01/22/2005 13:14	
Toluene-d8	110.4	75-116	%	1.00	01/22/2005 13:14	
Toluene-d8	98.7	75-116	%	1.00	01/24/2005 09:35	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

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

Project: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB1-22	Lab ID:	2005-01-0516 - 5
Sampled:	01/20/2005 16:50	Extracted:	1/22/2005 17:09 1/24/2005 22:56
Matrix:	Soil	QC Batch#:	2005/01/22-1B.66 2005/01/24-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 22:56	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 17:09	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 17:09	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 17:09	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 17:09	
tert-Butyl alcohol (TBA)	0.031	0.010	mg/Kg	1.00	01/24/2005 22:56	
Methyl tert-butyl ether (MTBE)	0.015	0.0050	mg/Kg	1.00	01/24/2005 22:56	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 17:09	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 17:09	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 17:09	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 17:09	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 17:09	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 17:09	
Surrogate(s)						
1,2-Dichloroethane-d4	126.9	72-124	%	1.00	01/22/2005 17:09	LH
1,2-Dichloroethane-d4	109.1	72-124	%	1.00	01/24/2005 22:56	
Toluene-d8	108.1	75-116	%	1.00	01/22/2005 17:09	
Toluene-d8	82.6	75-116	%	1.00	01/24/2005 22:56	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

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

Project: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB1-24	Lab ID:	2005-01-0516 - 6
Sampled:	01/20/2005 17:02	Extracted:	1/22/2005 17:32 1/24/2005 09:57
Matrix:	Soil	QC Batch#:	2005/01/22-1B.66 2005/01/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 09:57	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 17:32	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 17:32	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 17:32	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 17:32	
tert-Butyl alcohol (TBA)	0.025	0.010	mg/Kg	1.00	01/22/2005 17:32	
Methyl tert-butyl ether (MTBE)	0.0060	0.0050	mg/Kg	1.00	01/22/2005 17:32	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 17:32	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 17:32	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 17:32	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 17:32	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 17:32	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 17:32	
Surrogate(s)						
1,2-Dichloroethane-d4	107.4	72-124	%	1.00	01/24/2005 09:57	
1,2-Dichloroethane-d4	123.4	72-124	%	1.00	01/22/2005 17:32	
Toluene-d8	96.8	75-116	%	1.00	01/24/2005 09:57	
Toluene-d8	110.1	75-116	%	1.00	01/22/2005 17:32	

Severn Trent Laboratories, Inc.

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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: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB5-10	Lab ID:	2005-01-0516 - 7
Sampled:	01/20/2005 13:40	Extracted:	1/22/2005 17:54 1/24/2005 10:19
Matrix:	Soil	QC Batch#:	2005/01/22-1B.66 2005/01/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 10:19	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 17:54	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 17:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 17:54	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 17:54	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 17:54	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 17:54	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 17:54	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 17:54	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 17:54	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 17:54	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 17:54	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 17:54	
Surrogate(s)						
1,2-Dichloroethane-d4	112.5	72-124	%	1.00	01/24/2005 10:19	
1,2-Dichloroethane-d4	122.5	72-124	%	1.00	01/22/2005 17:54	
Toluene-d8	92.6	75-116	%	1.00	01/24/2005 10:19	
Toluene-d8	109.1	75-116	%	1.00	01/22/2005 17:54	

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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: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB5-15	Lab ID:	2005-01-0516 - 8
Sampled:	01/20/2005 13:50	Extracted:	1/22/2005 18:17 1/24/2005 10:41
Matrix:	Soil	QC Batch#:	2005/01/22-1B.66 2005/01/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 10:41	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 18:17	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 18:17	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 18:17	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 18:17	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 18:17	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 18:17	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 18:17	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 18:17	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 18:17	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 18:17	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 18:17	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 18:17	
Surrogate(s)						
1,2-Dichloroethane-d4	116.7	72-124	%	1.00	01/24/2005 10:41	
1,2-Dichloroethane-d4	129.3	72-124	%	1.00	01/22/2005 18:17	LH
Toluene-d8	90.3	75-116	%	1.00	01/24/2005 10:41	
Toluene-d8	111.8	75-116	%	1.00	01/22/2005 18:17	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 38487288.00802
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Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB6-10	Lab ID:	2005-01-0516 - 9
Sampled:	01/20/2005 14:40	Extracted:	1/22/2005 18:39 1/24/2005 23:18
Matrix:	Soil	QC Batch#:	2005/01/22-1B.66 2005/01/24-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 23:18	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 18:39	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 18:39	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 18:39	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 18:39	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 18:39	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 18:39	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 18:39	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 18:39	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 18:39	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 18:39	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 18:39	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 18:39	
Surrogate(s)						
1,2-Dichloroethane-d4	123.4	72-124	%	1.00	01/22/2005 18:39	
1,2-Dichloroethane-d4	95.9	72-124	%	1.00	01/24/2005 23:18	
Toluene-d8	110.0	75-116	%	1.00	01/22/2005 18:39	
Toluene-d8	90.7	75-116	%	1.00	01/24/2005 23:18	

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Project: 38487288.00802
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Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB6-15	Lab ID:	2005-01-0516 - 10
Sampled:	01/20/2005 14:50	Extracted:	1/22/2005 03:32 1/24/2005 11:24
Matrix:	Soil	QC Batch#:	2005/01/21-2A.66 2005/01/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 11:24	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 03:32	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 03:32	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 03:32	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 03:32	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 03:32	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 03:32	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 03:32	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 03:32	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 03:32	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 03:32	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 03:32	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 03:32	
Surrogate(s)						
1,2-Dichloroethane-d4	113.7	72-124	%	1.00	01/24/2005 11:24	
1,2-Dichloroethane-d4	129.3	72-124	%	1.00	01/22/2005 03:32	LH
Toluene-d8	94.7	75-116	%	1.00	01/24/2005 11:24	
Toluene-d8	109.2	75-116	%	1.00	01/22/2005 03:32	

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Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB6-22	Lab ID:	2005-01-0516 - 11
Sampled:	01/20/2005 15:35	Extracted:	1/22/2005 19:02 1/24/2005 11:46
Matrix:	Soil	QC Batch#:	2005/01/22-1B.66 2005/01/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 11:46	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 19:02	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 19:02	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 19:02	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 19:02	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 19:02	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 19:02	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 19:02	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 19:02	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 19:02	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 19:02	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 19:02	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 19:02	
Surrogate(s)						
1,2-Dichloroethane-d4	114.4	72-124	%	1.00	01/24/2005 11:46	
1,2-Dichloroethane-d4	125.9	72-124	%	1.00	01/22/2005 19:02	LH
Toluene-d8	91.0	75-116	%	1.00	01/24/2005 11:46	
Toluene-d8	105.0	75-116	%	1.00	01/22/2005 19:02	

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Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB7-10	Lab ID:	2005-01-0516 - 13
Sampled:	01/20/2005 09:04	Extracted:	1/22/2005 05:46 1/24/2005 12:07
Matrix:	Soil	QC Batch#:	2005/01/21-2A.66 2005/01/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 12:07	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 05:46	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 05:46	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 05:46	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 05:46	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 05:46	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 05:46	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 05:46	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 05:46	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 05:46	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 05:46	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 05:46	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 05:46	
Surrogate(s)						
1,2-Dichloroethane-d4	115.9	72-124	%	1.00	01/24/2005 12:07	
1,2-Dichloroethane-d4	125.7	72-124	%	1.00	01/22/2005 05:46	LH
Toluene-d8	111.4	75-116	%	1.00	01/24/2005 12:07	
Toluene-d8	107.8	75-116	%	1.00	01/22/2005 05:46	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

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Project: 38487288.00802
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Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB7-14.5	Lab ID:	2005-01-0516 - 14
Sampled:	01/20/2005 09:20	Extracted:	1/22/2005 05:24 1/22/2005 16:12
Matrix:	Soil	QC Batch#:	2005/01/21-2A.66 2005/01/22-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/22/2005 16:12	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 05:24	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 05:24	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 05:24	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 05:24	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 05:24	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 05:24	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 05:24	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 05:24	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 05:24	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 05:24	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 05:24	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 05:24	
Surrogate(s)						
1,2-Dichloroethane-d4	114.6	72-124	%	1.00	01/22/2005 16:12	
1,2-Dichloroethane-d4	122.9	72-124	%	1.00	01/22/2005 05:24	
Toluene-d8	95.9	75-116	%	1.00	01/22/2005 16:12	
Toluene-d8	111.4	75-116	%	1.00	01/22/2005 05:24	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
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Project: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB7-20	Lab ID:	2005-01-0516 - 15
Sampled:	01/20/2005 09:40	Extracted:	1/22/2005 05:01 1/22/2005 15:50
Matrix:	Soil	QC Batch#:	2005/01/21-2A.66 2005/01/22-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/22/2005 15:50	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 05:01	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 05:01	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 05:01	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 05:01	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 05:01	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 05:01	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 05:01	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 05:01	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 05:01	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 05:01	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 05:01	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 05:01	
Surrogate(s)						
1,2-Dichloroethane-d4	108.6	72-124	%	1.00	01/22/2005 15:50	
1,2-Dichloroethane-d4	121.6	72-124	%	1.00	01/22/2005 05:01	
Toluene-d8	98.8	75-116	%	1.00	01/22/2005 15:50	
Toluene-d8	109.3	75-116	%	1.00	01/22/2005 05:01	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 38487288.00802
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Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB8-10	Lab ID:	2005-01-0516 - 16
Sampled:	01/20/2005 10:40	Extracted:	1/22/2005 04:39 1/24/2005 12:51
Matrix:	Soil	QC Batch#:	2005/01/21-2A.66 2005/01/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/24/2005 12:51	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 04:39	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 04:39	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 04:39	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 04:39	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 04:39	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 04:39	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 04:39	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 04:39	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 04:39	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 04:39	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 04:39	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 04:39	
Surrogate(s)						
1,2-Dichloroethane-d4	118.2	72-124	%	1.00	01/24/2005 12:51	
1,2-Dichloroethane-d4	128.0	72-124	%	1.00	01/22/2005 04:39	LH
Toluene-d8	93.2	75-116	%	1.00	01/24/2005 12:51	
Toluene-d8	103.9	75-116	%	1.00	01/22/2005 04:39	

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Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB8-15	Lab ID:	2005-01-0516 - 17
Sampled:	01/20/2005 10:50	Extracted:	1/22/2005 04:16 1/22/2005 15:29
Matrix:	Soil	QC Batch#:	2005/01/21-2A.66 2005/01/22-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/22/2005 15:29	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 04:16	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 04:16	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 04:16	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 04:16	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 04:16	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 04:16	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 04:16	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 04:16	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 04:16	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 04:16	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 04:16	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 04:16	
Surrogate(s)						
1,2-Dichloroethane-d4	114.9	72-124	%	1.00	01/22/2005 15:29	
1,2-Dichloroethane-d4	123.0	72-124	%	1.00	01/22/2005 04:16	
Toluene-d8	98.4	75-116	%	1.00	01/22/2005 15:29	
Toluene-d8	111.5	75-116	%	1.00	01/22/2005 04:16	

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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: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB8-20	Lab ID:	2005-01-0516 - 18
Sampled:	01/20/2005 11:05	Extracted:	1/22/2005 03:09 1/22/2005 15:07
Matrix:	Soil	QC Batch#:	2005/01/21-2A.66 2005/01/22-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/22/2005 15:07	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 03:09	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 03:09	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 03:09	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 03:09	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/22/2005 03:09	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 03:09	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 03:09	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 03:09	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 03:09	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 03:09	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 03:09	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 03:09	
Surrogate(s)						
1,2-Dichloroethane-d4	114.1	72-124	%	1.00	01/22/2005 15:07	
1,2-Dichloroethane-d4	119.4	72-124	%	1.00	01/22/2005 03:09	
Toluene-d8	96.7	75-116	%	1.00	01/22/2005 15:07	
Toluene-d8	111.6	75-116	%	1.00	01/22/2005 03:09	

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Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB8-25	Lab ID:	2005-01-0516 - 19
Sampled:	01/20/2005 11:30	Extracted:	1/22/2005 02:47 1/22/2005 14:45
Matrix:	Soil	QC Batch#:	2005/01/21-2A.66 2005/01/22-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/22/2005 14:45	
Benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 02:47	
Toluene	ND	0.0050	mg/Kg	1.00	01/22/2005 02:47	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/22/2005 02:47	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/22/2005 02:47	
tert-Butyl alcohol (TBA)	0.012	0.010	mg/Kg	1.00	01/22/2005 02:47	
Methyl tert-butyl ether (MTBE)	0.022	0.0050	mg/Kg	1.00	01/22/2005 02:47	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/22/2005 02:47	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/22/2005 02:47	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/22/2005 02:47	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/22/2005 02:47	
EDB	ND	0.0050	mg/Kg	1.00	01/22/2005 02:47	
Ethanol	ND	0.1	mg/Kg	1.00	01/22/2005 02:47	
Surrogate(s)						
1,2-Dichloroethane-d4	109.0	72-124	%	1.00	01/22/2005 14:45	
1,2-Dichloroethane-d4	123.8	72-124	%	1.00	01/22/2005 02:47	
Toluene-d8	98.9	75-116	%	1.00	01/22/2005 14:45	
Toluene-d8	110.6	75-116	%	1.00	01/22/2005 02:47	

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Batch QC Report					
Prep(s): 5030B Method Blank MB: 2005/01/21-2A.66-054			Test(s): 8260B Soil QC Batch # 2005/01/21-2A.66 Date Extracted: 01/22/2005 01:16		
Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	01/22/2005 00:54	
Benzene	ND	0.0050	mg/Kg	01/22/2005 00:54	
Toluene	ND	0.0050	mg/Kg	01/22/2005 00:54	
Ethyl benzene	ND	0.0050	mg/Kg	01/22/2005 00:54	
Total xylenes	ND	0.0050	mg/Kg	01/22/2005 00:54	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	01/22/2005 00:54	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	01/22/2005 00:54	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	01/22/2005 00:54	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	01/22/2005 00:54	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	01/22/2005 00:54	
1,2-DCA	ND	0.0050	mg/Kg	01/22/2005 00:54	
EDB	ND	0.0050	mg/Kg	01/22/2005 00:54	
Ethanol	ND	0.10	mg/Kg	01/22/2005 00:54	
Surrogates(s)					
1,2-Dichloroethane-d4	111.6	72-124	%	01/22/2005 00:54	
Toluene-d8	108.8	75-116	%	01/22/2005 00:54	

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Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Soil	QC Batch # 2005/01/22-1B.66
MB: 2005/01/22-1B.66-022		Date Extracted: 01/22/2005 12:22

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	01/22/2005 12:22	
Benzene	ND	0.0050	mg/Kg	01/22/2005 12:22	
Toluene	ND	0.0050	mg/Kg	01/22/2005 12:22	
Ethyl benzene	ND	0.0050	mg/Kg	01/22/2005 12:22	
Total xylenes	ND	0.0050	mg/Kg	01/22/2005 12:22	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	01/22/2005 12:22	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	01/22/2005 12:22	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	01/22/2005 12:22	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	01/22/2005 12:22	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	01/22/2005 12:22	
1,2-DCA	ND	0.0050	mg/Kg	01/22/2005 12:22	
EDB	ND	0.0050	mg/Kg	01/22/2005 12:22	
Ethanol	ND	0.10	mg/Kg	01/22/2005 12:22	
Surrogates(s)					
1,2-Dichloroethane-d4	110.6	72-124	%	01/22/2005 12:22	
Toluene-d8	107.6	75-116	%	01/22/2005 12:22	

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Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Soil	QC Batch # 2005/01/22-1C.62
MB: 2005/01/22-1C.62-001		Date Extracted: 01/22/2005 09:01

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	01/22/2005 09:01	
Benzene	ND	0.0050	mg/Kg	01/22/2005 09:01	
Toluene	ND	0.0050	mg/Kg	01/22/2005 09:01	
Ethyl benzene	ND	0.0050	mg/Kg	01/22/2005 09:01	
Total xylenes	ND	0.0050	mg/Kg	01/22/2005 09:01	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	01/22/2005 09:01	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	01/22/2005 09:01	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	01/22/2005 09:01	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	01/22/2005 09:01	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	01/22/2005 09:01	
1,2-DCA	ND	0.0050	mg/Kg	01/22/2005 09:01	
EDB	ND	0.0050	mg/Kg	01/22/2005 09:01	
Ethanol	ND	0.10	mg/Kg	01/22/2005 09:01	
Surrogates(s)					
1,2-Dichloroethane-d4	100.8	72-124	%	01/22/2005 09:01	
Toluene-d8	93.2	75-116	%	01/22/2005 09:01	

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Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Soil		QC Batch # 2005/01/24-1A.62
MB: 2005/01/24-1A.62-012			Date Extracted: 01/24/2005 07:12

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	01/24/2005 07:12	
Benzene	ND	0.0050	mg/Kg	01/24/2005 07:12	
Toluene	ND	0.0050	mg/Kg	01/24/2005 07:12	
Ethyl benzene	ND	0.0050	mg/Kg	01/24/2005 07:12	
Total xylenes	ND	0.0050	mg/Kg	01/24/2005 07:12	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	01/24/2005 07:12	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	01/24/2005 07:12	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	01/24/2005 07:12	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	01/24/2005 07:12	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	01/24/2005 07:12	
1,2-DCA	ND	0.0050	mg/Kg	01/24/2005 07:12	
EDB	ND	0.0050	mg/Kg	01/24/2005 07:12	
Surrogates(s)					
1,2-Dichloroethane-d4	104.6	72-124	%	01/24/2005 07:12	
Toluene-d8	94.2	75-116	%	01/24/2005 07:12	

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Gas/BTEX Fuel Oxygenates by 8260B

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Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Soil	QC Batch # 2005/01/24-2B.62
MB: 2005/01/24-2B.62-024		Date Extracted: 01/24/2005 17:24

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	01/24/2005 17:24	
Benzene	ND	0.0050	mg/Kg	01/24/2005 17:24	
Toluene	ND	0.0050	mg/Kg	01/24/2005 17:24	
Ethyl benzene	ND	0.0050	mg/Kg	01/24/2005 17:24	
Total xylenes	ND	0.0050	mg/Kg	01/24/2005 17:24	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	01/24/2005 17:24	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	01/24/2005 17:24	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	01/24/2005 17:24	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	01/24/2005 17:24	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	01/24/2005 17:24	
1,2-DCA	ND	0.0050	mg/Kg	01/24/2005 17:24	
EDB	ND	0.0050	mg/Kg	01/24/2005 17:24	
Ethanol	ND	0.10	mg/Kg	01/24/2005 17:24	
Surrogates(s)					
1,2-Dichloroethane-d4	110.8	72-124	%	01/24/2005 17:24	
Toluene-d8	98.4	75-116	%	01/24/2005 17:24	

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Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2005/01/21-2A.66			
LCS		2005/01/21-2A.66-055		Extracted: 01/22/2005		Analyzed: 01/22/2005 00:54			
LCSD									

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0452		0.05	90.4			65-165	20		
Benzene	0.0483		0.05	96.6			69-129	20		
Toluene	0.0514		0.05	102.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	539		500	107.8			72-124			
Toluene-d8	523		500	104.6			75-116			

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Batch QC Report									
Prep(s): 5030B						Test(s): 8260B			
Laboratory Control Spike			Soil			QC Batch # 2005/01/22-1B.66			
LCS		2005/01/22-1B.66-059		Extracted: 01/22/2005		Analyzed: 01/22/2005 11:59			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0518		0.05	103.6			65-165	20		
Benzene	0.0517		0.05	103.4			69-129	20		
Toluene	0.0578		0.05	115.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	537		500	107.4			72-124			
Toluene-d8	547		500	109.4			75-116			

Gas/BTEX Fuel Oxygenates by 8260B

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Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2005/01/22-1C.62			
LCS		2005/01/22-1C.62-039		Extracted: 01/22/2005		Analyzed: 01/22/2005 08:39			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0531		0.05	106.2			65-165	20		
Benzene	0.0460		0.05	92.0			69-129	20		
Toluene	0.0490		0.05	98.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	484		500	96.8			72-124			
Toluene-d8	465		500	93.0			75-116			

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Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2005/01/24-1A.62			
LCS	2005/01/24-1A.62-050		Extracted: 01/24/2005			Analyzed: 01/24/2005 06:50			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %			Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD	
Methyl tert-butyl ether (MTBE)	0.0519		0.05	103.8			65-165	20			
Benzene	0.0508		0.05	101.6			69-129	20			
Toluene	0.0525		0.05	105.0			70-130	20			
Surrogates(s)											
1,2-Dichloroethane-d4	466		500	93.2			72-124				
Toluene-d8	499		500	99.8			75-116				

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Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2005/01/24-2B.62			
LCS 2005/01/24-2B.62-004			Extracted: 01/24/2005			Analyzed: 01/24/2005 17:03			
LCSD									

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0594		0.05	118.8			65-165	20		
Benzene	0.0554		0.05	110.8			69-129	20		
Toluene	0.0554		0.05	110.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	490		500	98.0			72-124			
Toluene-d8	483		500	96.6			75-116			

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Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Soil	QC Batch # 2005/01/21-2A.66
MS/MSD		Lab ID:	2005-01-0526 - 001
MS:	2005/01/21-2A.66-056	Extracted:	01/22/2005
		Analyzed:	01/22/2005 02:01
		Dilution:	1.00
MSD:	2005/01/21-2A.66-057	Extracted:	01/22/2005
		Analyzed:	01/22/2005 02:24
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0426	0.0525	ND	0.05	85.2	105.0	20.8	65-165	20		RB
Benzene	0.0469	0.0558	ND	0.05	93.8	111.6	17.3	69-129	20		
Toluene	0.0507	0.0558	ND	0.05	101.4	111.6	9.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	513	563		500	102.6	112.6		72-124			
Toluene-d8	531	541		500	106.2	108.2		75-116			

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01/26/2005 16:02

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: 38487288.00802
0498

Received: 01/20/2005 18:32

Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Soil	QC Batch # 2005/01/22-1B.66
MS/MSD		Lab ID:	2005-01-0541 - 001
MS:	2005/01/22-1B.66-010	Extracted:	01/22/2005
		Analyzed:	01/22/2005 14:10
		Dilution:	1.00
MSD:	2005/01/22-1B.66-032	Extracted:	01/22/2005
		Analyzed:	01/22/2005 14:32
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0470	0.0457	ND	0.05	94.0	91.4	2.8	65-165	20		
Benzene	0.0502	0.0475	ND	0.05	100.4	95.0	5.5	69-129	20		
Toluene	0.0585	0.0553	ND	0.05	117.0	110.6	5.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	510	546		500	102.0	109.2		72-124			
Toluene-d8	538	566		500	107.6	113.2		75-116			

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Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
Matrix Spike (MS / MSD)	Soil	QC Batch # 2005/01/22-1C.62	
MS/MSD		Lab ID:	2005-01-0544 - 003
MS: 2005/01/22-1C.62-024	Extracted: 01/22/2005	Analyzed:	01/22/2005 10:24
		Dilution:	1.00
MSD: 2005/01/22-1C.62-046	Extracted: 01/22/2005	Analyzed:	01/22/2005 10:46
		Dilution:	1.00

Compound	Conc. mg/Kg		Spk. Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	0.0534	0.0511	ND	0.045454	117.5	113.2	3.7	65-165	20		
Benzene	0.0499	0.0489	ND	0.045454	109.8	108.4	1.3	69-129	20		
Toluene	0.0512	0.0460	ND	0.045454	112.6	101.9	10.0	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	478	460		500	95.6	92.0		72-124			
Toluene-d8	464	484		500	92.8	96.8		75-116			

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Batch QC Report						
Prep(s):	5030B				Test(s):	8260B
Matrix Spike (MS / MSD)				Soil	QC Batch # 2005/01/24-1A.62	
MS/MSD				Lab ID:	2005-01-0430 - 001	
MS:	2005/01/24-1A.62-030	Extracted: 01/24/2005		Analyzed:	01/24/2005 08:30	
				Dilution:	1.00	
MSD:	2005/01/24-1A.62-052	Extracted: 01/24/2005		Analyzed:	01/24/2005 08:52	
				Dilution:	1.00	

Compound	Conc. mg/Kg		Spk Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl teri-butyl ether	0.0499	0.0517	ND	0.049309	101.2	106.1	4.7	65-165	20		
Benzene	0.0503	0.0524	ND	0.049309	102.0	107.5	5.3	69-129	20		
Toluene	0.0518	0.0511	ND	0.049309	105.1	104.9	0.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	462	460		500	92.4	92.0		72-124			
Toluene-d8	484	488		500	96.8	97.6		75-116			

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Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Soil	QC Batch # 2005/01/24-2B.62
MS/MSD		Lab ID:	2005-01-0554 - 004
MS:	2005/01/24-2B.62-041	Extracted:	01/24/2005
		Analyzed:	01/24/2005 19:41
		Dilution:	1.00
MSD:	2005/01/24-2B.62-003	Extracted:	01/24/2005
		Analyzed:	01/24/2005 20:03
		Dilution:	1.00

Compound	Conc. mg/Kg		Spk.Level mg/Kg	Recovery %			Limits %		Flags		
	MS	MSD		Sample	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0481	0.0409	ND	0.049900	96.4	83.4	14.5	65-165	20		
Benzene	0.0452	0.0445	ND	0.049900	90.6	90.8	0.2	69-129	20		
Toluene	0.0465	0.0472	ND	0.049900	93.2	96.3	3.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	446	449		500	89.2	89.8		72-124			
Toluene-d8	453	446		500	90.6	89.2		75-116			

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Legend and Notes

Result Flag

LH

Surrogate recovery above the acceptance limits.

RB

RPD exceeded method control limit; % recoveries within limits.

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Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB2-10'	01/19/2005 13:36	Soil	1
SB2-15'	01/19/2005 13:45	Soil	2
SB2-18.5'	01/19/2005 14:22	Soil	3
SB3-10'	01/19/2005 15:40	Soil	4
SB3-15'	01/19/2005 15:51	Soil	5
SB3-20'	01/19/2005 16:05	Soil	6
SB3-25'	01/19/2005 16:24	Soil	7
SB4-7'	01/19/2005 11:26	Soil	8
SB4-12'	01/19/2005 11:48	Soil	9
SB4-17'	01/19/2005 12:00	Soil	10
SB4-22'	01/19/2005 12:10	Soil	11

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0498

Received: 01/19/2005 17:35

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB2-10	Lab ID:	2005-01-0483 - 1
Sampled:	01/19/2005 13:36	Extracted:	1/19/2005 21:24 1/19/2005 21:24 1/21/2005 12:46
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/21-1B.66 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/19/2005 21:24	
Benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 21:24	
Toluene	ND	0.0050	mg/Kg	1.00	01/19/2005 21:24	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 21:24	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/19/2005 21:24	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/19/2005 21:24	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 21:24	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/19/2005 21:24	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 21:24	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/19/2005 21:24	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/19/2005 21:24	
EDB	ND	0.0050	mg/Kg	1.00	01/19/2005 21:24	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 12:46	
Surrogate(s)						
1,2-Dichloroethane-d4	116.6	72-124	%	1.00	01/19/2005 21:24	
1,2-Dichloroethane-d4	131.4	72-124	%	1.00	01/21/2005 12:46	LH
Toluene-d8	99.3	75-116	%	1.00	01/19/2005 21:24	
Toluene-d8	107.4	75-116	%	1.00	01/21/2005 12:46	

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Gas/BTEX Fuel Oxygenates by 8260B

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Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB2-15	Lab ID:	2005-01-0483 - 2
Sampled:	01/19/2005 13:45	Extracted:	1/19/2005 21:46 1/19/2005 21:46 1/21/2005 17:25
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/21-1B.66 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/19/2005 21:46	
Benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 21:46	
Toluene	ND	0.0050	mg/Kg	1.00	01/19/2005 21:46	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 21:46	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/19/2005 21:46	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/19/2005 21:46	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 21:46	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/19/2005 21:46	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 21:46	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/19/2005 21:46	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/19/2005 21:46	
EDB	ND	0.0050	mg/Kg	1.00	01/19/2005 21:46	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 17:25	
Surrogate(s)						
1,2-Dichloroethane-d4	126.1	72-124	%	1.00	01/19/2005 21:46	LH
1,2-Dichloroethane-d4	127.5	72-124	%	1.00	01/21/2005 17:25	LH
Toluene-d8	93.4	75-116	%	1.00	01/19/2005 21:46	
Toluene-d8	111.8	75-116	%	1.00	01/21/2005 17:25	

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Site: 286 South Livermore Ave., Livermore, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB2-18.5	Lab ID: 2005-01-0483 - 3
Sampled: 01/19/2005 14:22	Extracted: 1/19/2005 22:08 1/21/2005 12:46
Matrix: Soil	QC Batch#: 2005/01/19-2C.62 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/19/2005 22:08	
Benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 22:08	
Toluene	ND	0.0050	mg/Kg	1.00	01/19/2005 22:08	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 22:08	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/19/2005 22:08	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/19/2005 22:08	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 22:08	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/19/2005 22:08	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 22:08	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/19/2005 22:08	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/19/2005 22:08	
EDB	ND	0.0050	mg/Kg	1.00	01/19/2005 22:08	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 12:46	
Surrogate(s)						
1,2-Dichloroethane-d4	131.4	72-124	%	1.00	01/21/2005 12:46	LH
1,2-Dichloroethane-d4	118.8	72-124	%	1.00	01/19/2005 22:08	
Toluene-d8	107.4	75-116	%	1.00	01/21/2005 12:46	
Toluene-d8	93.5	75-116	%	1.00	01/19/2005 22:08	

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Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB3-10	Lab ID:	2005-01-0483 - 4
Sampled:	01/19/2005 15:40	Extracted:	1/19/2005 22:29 1/19/2005 22:29 1/21/2005 17:48
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/21-1B.66 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/19/2005 22:29	
Benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 22:29	
Toluene	ND	0.0050	mg/Kg	1.00	01/19/2005 22:29	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 22:29	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/19/2005 22:29	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/19/2005 22:29	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 22:29	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/19/2005 22:29	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 22:29	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/19/2005 22:29	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/19/2005 22:29	
EDB	ND	0.0050	mg/Kg	1.00	01/19/2005 22:29	
Ethanol	ND	0.10	mg/Kg	1.00	01/21/2005 17:48	
Surrogate(s)						
1,2-Dichloroethane-d4	117.4	72-124	%	1.00	01/19/2005 22:29	
1,2-Dichloroethane-d4	129.9	72-124	%	1.00	01/21/2005 17:48	LH
Toluene-d8	98.2	75-116	%	1.00	01/19/2005 22:29	
Toluene-d8	107.3	75-116	%	1.00	01/21/2005 17:48	

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Received: 01/19/2005 17:35

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB3-15	Lab ID:	2005-01-0483 - 5
Sampled:	01/19/2005 15:51	Extracted:	1/19/2005 22:51 1/21/2005 14:27
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/19/2005 22:51	
Benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 22:51	
Toluene	ND	0.0050	mg/Kg	1.00	01/19/2005 22:51	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 22:51	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/19/2005 22:51	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/19/2005 22:51	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 22:51	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/19/2005 22:51	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 22:51	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/19/2005 22:51	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/19/2005 22:51	
EDB	ND	0.0050	mg/Kg	1.00	01/19/2005 22:51	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 14:27	
Surrogate(s)						
1,2-Dichloroethane-d4	130.2	72-124	%	1.00	01/21/2005 14:27	LH
1,2-Dichloroethane-d4	116.0	72-124	%	1.00	01/19/2005 22:51	
Toluene-d8	107.3	75-116	%	1.00	01/21/2005 14:27	
Toluene-d8	99.6	75-116	%	1.00	01/19/2005 22:51	

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Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB3-20	Lab ID:	2005-01-0483 - 6
Sampled:	01/19/2005 16:05	Extracted:	1/19/2005 23:13 1/19/2005 23:13 1/21/2005 14:49
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/21-1B.66 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/19/2005 23:13	
Benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 23:13	
Toluene	ND	0.0050	mg/Kg	1.00	01/19/2005 23:13	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 23:13	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/19/2005 23:13	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/19/2005 23:13	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 23:13	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/19/2005 23:13	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 23:13	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/19/2005 23:13	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/19/2005 23:13	
EDB	ND	0.0050	mg/Kg	1.00	01/19/2005 23:13	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 14:49	
Surrogate(s)						
1,2-Dichloroethane-d4	128.8	72-124	%	1.00	01/21/2005 14:49	LH
1,2-Dichloroethane-d4	117.6	72-124	%	1.00	01/19/2005 23:13	
Toluene-d8	95.5	75-116	%	1.00	01/19/2005 23:13	
Toluene-d8	106.1	75-116	%	1.00	01/21/2005 14:49	

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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: 38487288.00802
0498

Received: 01/19/2005 17:35

Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB3-25	Lab ID:	2005-01-0483 - 7
Sampled:	01/19/2005 16:24	Extracted:	1/19/2005 23:35 1/19/2005 23:35 1/21/2005 15:11
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/21-1B.66 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/19/2005 23:35	
Benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 23:35	
Toluene	ND	0.0050	mg/Kg	1.00	01/19/2005 23:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 23:35	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/19/2005 23:35	
tert-Butyl alcohol (TBA)	0.021	0.010	mg/Kg	1.00	01/19/2005 23:35	
Methyl tert-butyl ether (MTBE)	0.011	0.0050	mg/Kg	1.00	01/19/2005 23:35	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/19/2005 23:35	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 23:35	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/19/2005 23:35	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/19/2005 23:35	
EDB	ND	0.0050	mg/Kg	1.00	01/19/2005 23:35	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 15:11	
Surrogate(s)						
1,2-Dichloroethane-d4	116.8	72-124	%	1.00	01/19/2005 23:35	
1,2-Dichloroethane-d4	132.4	72-124	%	1.00	01/21/2005 15:11	LH
Toluene-d8	96.5	75-116	%	1.00	01/19/2005 23:35	
Toluene-d8	106.9	75-116	%	1.00	01/21/2005 15:11	

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 38487288.00802
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Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB4-7	Lab ID:	2005-01-0483 - 8
Sampled:	01/19/2005 11:26	Extracted:	1/19/2005 23:56 1/19/2005 23:56 1/21/2005 15:34
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/21-1B.66 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/19/2005 23:56	
Benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 23:56	
Toluene	ND	0.0050	mg/Kg	1.00	01/19/2005 23:56	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/19/2005 23:56	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/19/2005 23:56	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/19/2005 23:56	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 23:56	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/19/2005 23:56	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/19/2005 23:56	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/19/2005 23:56	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/19/2005 23:56	
EDB	ND	0.0050	mg/Kg	1.00	01/19/2005 23:56	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 15:34	
Surrogate(s)						
1,2-Dichloroethane-d4	113.1	72-124	%	1.00	01/19/2005 23:56	
1,2-Dichloroethane-d4	140.4	72-124	%	1.00	01/21/2005 15:34	LH
Toluene-d8	100.8	75-116	%	1.00	01/19/2005 23:56	
Toluene-d8	105.8	75-116	%	1.00	01/21/2005 15:34	

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Gas/BTEX Fuel Oxygenates by 8260B

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Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB4-12	Lab ID:	2005-01-0483 - 9
Sampled:	01/19/2005 11:48	Extracted:	1/20/2005 00:18 1/20/2005 00:18 1/21/2005 15:56
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/21-1B.66 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/20/2005 00:18	
Benzene	ND	0.0050	mg/Kg	1.00	01/20/2005 00:18	
Toluene	ND	0.0050	mg/Kg	1.00	01/20/2005 00:18	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/20/2005 00:18	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/20/2005 00:18	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/20/2005 00:18	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/20/2005 00:18	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/20/2005 00:18	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/20/2005 00:18	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/20/2005 00:18	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/20/2005 00:18	
EDB	ND	0.0050	mg/Kg	1.00	01/20/2005 00:18	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 15:56	
Surrogate(s)						
1,2-Dichloroethane-d4	113.3	72-124	%	1.00	01/20/2005 00:18	
1,2-Dichloroethane-d4	125.8	72-124	%	1.00	01/21/2005 15:56	LH
Toluene-d8	97.7	75-116	%	1.00	01/20/2005 00:18	
Toluene-d8	112.7	75-116	%	1.00	01/21/2005 15:56	

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Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB4-17	Lab ID:	2005-01-0483 - 10
Sampled:	01/19/2005 12:00	Extracted:	1/20/2005 00:40 1/21/2005 16:18 1/20/2005 00:40
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/19-2C.62 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/20/2005 00:40	
Benzene	ND	0.0050	mg/Kg	1.00	01/20/2005 00:40	
Toluene	ND	0.0050	mg/Kg	1.00	01/20/2005 00:40	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/20/2005 00:40	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/20/2005 00:40	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/20/2005 00:40	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/20/2005 00:40	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/20/2005 00:40	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/20/2005 00:40	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/20/2005 00:40	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/20/2005 00:40	
EDB	ND	0.0050	mg/Kg	1.00	01/20/2005 00:40	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 16:18	
Surrogate(s)						
1,2-Dichloroethane-d4	114.7	72-124	%	1.00	01/20/2005 00:40	
1,2-Dichloroethane-d4	129.5	72-124	%	1.00	01/21/2005 16:18	LH
Toluene-d8	110.6	75-116	%	1.00	01/21/2005 16:18	
Toluene-d8	95.5	75-116	%	1.00	01/20/2005 00:40	

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Project: 38487288.00802
0498

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Site: 286 South Livermore Ave., Livermore, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB4-22	Lab ID:	2005-01-0483 - 11
Sampled:	01/19/2005 12:10	Extracted:	1/20/2005 01:01 1/21/2005 16:41 1/20/2005 01:01
Matrix:	Soil	QC Batch#:	2005/01/19-2C.62 2005/01/19-2C.62 2005/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	01/20/2005 01:01	
Benzene	ND	0.0050	mg/Kg	1.00	01/20/2005 01:01	
Toluene	ND	0.0050	mg/Kg	1.00	01/20/2005 01:01	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	01/20/2005 01:01	
Total xylenes	ND	0.0050	mg/Kg	1.00	01/20/2005 01:01	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	01/20/2005 01:01	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	01/20/2005 01:01	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	01/20/2005 01:01	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	01/20/2005 01:01	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	01/20/2005 01:01	
1,2-DCA	ND	0.0050	mg/Kg	1.00	01/20/2005 01:01	
EDB	ND	0.0050	mg/Kg	1.00	01/20/2005 01:01	
Ethanol	ND	0.1	mg/Kg	1.00	01/21/2005 16:41	
Surrogate(s)						
1,2-Dichloroethane-d4	125.9	72-124	%	1.00	01/21/2005 16:41	LH
1,2-Dichloroethane-d4	122.4	72-124	%	1.00	01/20/2005 01:01	
Toluene-d8	109.1	75-116	%	1.00	01/21/2005 16:41	
Toluene-d8	97.8	75-116	%	1.00	01/20/2005 01:01	

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Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

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Project: 38487288.00802
0498

Received: 01/19/2005 17:35

Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Method Blank			Soil		
MB: 2005/01/19-2C.62-029			QC Batch # 2005/01/19-2C.62		
			Date Extracted: 01/19/2005 16:29		
Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	01/19/2005 16:29	
Benzene	ND	0.0050	mg/Kg	01/19/2005 16:29	
Toluene	ND	0.0050	mg/Kg	01/19/2005 16:29	
Ethyl benzene	ND	0.0050	mg/Kg	01/19/2005 16:29	
Total xylenes	ND	0.0050	mg/Kg	01/19/2005 16:29	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	01/19/2005 16:29	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	01/19/2005 16:29	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	01/19/2005 16:29	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	01/19/2005 16:29	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	01/19/2005 16:29	
1,2-DCA	ND	0.0050	mg/Kg	01/19/2005 16:29	
EDB	ND	0.0050	mg/Kg	01/19/2005 16:29	
Ethanol	ND	0.10	mg/Kg	01/19/2005 16:29	
Surrogates(s)					
1,2-Dichloroethane-d4	106.2	72-124	%	01/19/2005 16:29	
Toluene-d8	95.4	75-116	%	01/19/2005 16:29	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 38487288.00802
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Received: 01/19/2005 17:35

Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/01/21-1B.66-011

Soil

Test(s): 8260B

QC Batch # 2005/01/21-1B.66

Date Extracted: 01/21/2005 11:11

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	01/21/2005 11:11	
Benzene	ND	0.0050	mg/Kg	01/21/2005 11:11	
Toluene	ND	0.0050	mg/Kg	01/21/2005 11:11	
Ethyl benzene	ND	0.0050	mg/Kg	01/21/2005 11:11	
Total xylenes	ND	0.0050	mg/Kg	01/21/2005 11:11	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	01/21/2005 11:11	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	01/21/2005 11:11	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	01/21/2005 11:11	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	01/21/2005 11:11	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	01/21/2005 11:11	
1,2-DCA	ND	0.0050	mg/Kg	01/21/2005 11:11	
EDB	ND	0.0050	mg/Kg	01/21/2005 11:11	
Ethanol	ND	0.10	mg/Kg	01/21/2005 11:11	
Surrogates(s)					
1,2-Dichloroethane-d4	108.4	72-124	%	01/21/2005 11:11	
Toluene-d8	109.2	75-116	%	01/21/2005 11:11	

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Gas/BTEX Fuel Oxygenates by 8260B

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0498

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Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil		QC Batch # 2005/01/19-2C.62				
LCS		2005/01/19-2C.62-051			Extracted: 01/19/2005		Analyzed: 01/19/2005 16:51		
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0662		0.05	132.4			65-165	20		
Benzene	0.0558		0.05	111.6			69-129	20		
Toluene	0.0575		0.05	115.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	536		500	107.2			72-124			
Toluene-d8	483		500	96.6			75-116			

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 38487288.00802
0498

Received: 01/19/2005 17:35

Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2005/01/21-1B.66			
LCS		2005/01/21-1B.66-049			Extracted: 01/21/2005		Analyzed: 01/21/2005 10:49		
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0554		0.05	110.8			65-165	20		
Benzene	0.0555		0.05	111.0			69-129	20		
Toluene	0.0620		0.05	124.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	534		500	106.8			72-124			
Toluene-d8	559		500	111.8			75-116			

Gas/BTEX Fuel Oxygenates by 8260B

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0498

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Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Soil	QC Batch # 2005/01/19-2C.62
MS/MSD		Lab ID:	2005-01-0202 - 005
MS:	2005/01/19-2C.62-053	Extracted:	01/19/2005
		Analyzed:	01/19/2005 18:53
		Dilution:	1.00
MSD:	2005/01/19-2C.62-054	Extracted:	01/19/2005
		Analyzed:	01/19/2005 19:14
		Dilution:	1.00

Compound	Conc. mg/Kg		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	1.12	0.894	1.09	0.242718	12.4	-82.3	-271	65-165	20	BB	RB
Benzene	0.247	0.244	ND	0.242718	101.8	102.5	0.7	69-129	20		
Toluene	0.260	0.256	ND	0.242718	107.1	107.5	0.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	499	490		500	99.8	98.0		72-124			
Toluene-d8	496	489		500	99.2	97.8		75-116			

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

01/24/2005 08:12

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: 38487288.00802
0498

Received: 01/19/2005 17:35

Site: 286 South Livermore Ave., Livermore, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Soil		QC Batch # 2005/01/21-1B.66
MS/MSD			Lab ID: 2005-01-0481 - 001
MS: 2005/01/21-1B.66-009	Extracted: 01/21/2005	Analyzed: 01/21/2005 13:09	Dilution: 1.00
MSD: 2005/01/21-1B.66-032	Extracted: 01/21/2005	Analyzed: 01/21/2005 13:32	Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0541	0.0570	0.00571	0.05	96.8	102.6	5.8	65-165	20		
Benzene	0.0552	0.0574	ND	0.05	110.4	114.8	3.9	69-129	20		
Toluene	0.0651	0.0665	ND	0.05	130.2	133.0	2.1	70-130	20	LM,AY	LM,AY
Surrogate(s)											
1,2-Dichloroethane-d4	508	536		500	101.6	107.2		72-124			
Toluene-d8	553	548		500	110.6	109.6		75-116			

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Legend and Notes

Result Flag

BB

Sample > 4x spike concentration

LH

Surrogate recovery above the acceptance limits.

LM,AY

LM=MS and/or MSD above acceptance limits. See Blank Spike(LCS).

RB

RPD exceeded method control limit; % recoveries within limits.

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01/24/2005 08:12

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STL San Francisco

Sample Receipt Checklist

Submission #: 2005- 01-0483

Checklist completed by (initials) M Date: 01, 19 /05

Courier name 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: 6 °C Yes No ___

Potential reason for > 6°C - Ice melted Ice in bags Not enough ice Not enough blue ice Samples in boxes

Sampled < 4hr. ago? Ice not required (e.g. air or bulk sample) 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? 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: SB-~~25~~ SB3-25' ID# ON SAMPLE SB3-24' SAME DATE
1/2 TIME. TRIP BLANK HAS LARGE BUBBLE

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

Project Manager: (initials) _____ Date: _____ / _____ /05

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):



RUSH 24 hours

991659

Chain of Custody Record

Project Name: ARCO Service Station 498
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: CA
Requested Due Date (mm/dd/yy): 1/21/05 RUSH 24

Table with 2 columns: On-site Time, Off-site Time, Sky Conditions, Meteorological Events, Wind Speed, Temp, Direction.

2005-01-0483

Form with fields for Lab Name, Address, BP/AR Facility No., BP/AR Facility Address, Site Lat/Long, California Global ID No., Enfos Project No., Provision or RCOP, Phase/WBS, Sub Phase/Task, Cost Element, Consultant/Contractor, Address, Consultant/Contractor Project No., Consultant/Contractor PM, Tele/Fax, Report Type & QC Level, E-mail EDD To, Invoice to.

Main data table with columns: Item No., Sample Description, Time, Date, Matrix (Soil/Solid, Water/Liquid, Air), Laboratory No., No. of Containers, Preservative (Unpreserved, H2SO4, HNO3, HCl, Mercuric, ICC, PTEX/DAYTRH-GRO by EPA 8260B, Total Lead by EPA 6010), Requested Analysis, Sample Point Lat/Long and Com.

RUSH

Form with fields: Sampler's Name, Sampler's Company, Shipment Date, Shipment Method, Shipment Tracking No., Relinquished By / Affiliation, Date, Time, Accepted By / Affiliation, Date.

Special Instructions:

Form with fields: Custody Seals In Place Yes/No, Temp Blank Yes/No, Cooler Temperature on Receipt, Trip Blank Yes/No.



★ 24 Hr RUSH ★

99659 Page 2 of 2

Chain of Custody Record

Project Name: ARCO Service Station 498
 BP BU/AR Region/Enfos Segment: _____
 State or Lead Regulatory Agency: CA
 Requested Due Date (mm/dd/yy): 1/21/09 RUSH 24

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Metereological Events:	
Wind Speed:	Direction:

2005-01-0483

Lab Name: <u>STL</u>	BP/AR Facility No.: <u>0498</u>	Consultant/Contractor: <u>URS</u>
Address: <u>1220 Quarry Lane</u>	BP/AR Facility Address: <u>286 South Livermore Ave., Livermore, CA</u>	Address: <u>1333 Broadway Ste. 800</u>
<u>Pleasanton, CA 94566</u>	Site Lat/Long:	<u>Oakland, CA 94612</u>
Lab PM: <u>Dimple</u>	California Global ID No.:	Consultant/Contractor Project No.: <u>36487288.00802</u>
Tele/Fax: <u>408-776-9600/408-782-6108</u>	Enfos Project No.:	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or RCOP (circle one)	Tele/Fax: <u>510-874-3280</u>
Address:	Phase/WBS:	Report Type & QC Level:
Tele/Fax: <u>925-299-8891</u>	Sub Phase/Task:	E-mail EDD To: <u>scott_robinson@urcorp.com</u>
	Cost Element:	Invoice to: <u>Consultant or BP or Atlantic Richfield Co. (circle one)</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative							Requested Analysis	Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	Ice	BYEX/Oxy/TPH-GRO by EPA 8260B		
1	SBL-121	1210	1/19/09	X			1										
2	Trip Blank	1226	1/19/09	X			1			X					X		

RUSH

Sampler's Name: <u>Jamb Henry</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>URS</u>	<u>JH - (J. Henry)</u>	<u>1/19/09</u>	<u>1735</u>	<u>[Signature] / STL SF</u>	<u>01/19/09</u>	<u>1735</u>
Shipment Date: <u>1/19/09</u>						
Shipment Method: <u>Carrier</u>						
Shipment Tracking No:						

Special Instructions: _____

Custody Seals in Place Yes No Temp Blank Yes No Cooler Temperature on Receipt 6 °F Trip Blank Yes No