



LETTER OF TRANSMITTAL

October 13, 2003

TO: Eva Chu
City of San Leandro
Environmental Services Division
Civic Center
835 East 14th Street
San Leandro, CA 94577

FROM: Henry Barrientos
URS Corporation
55 South Market Street, Suite 1500
San Jose, CA 95113

SUBJECT: Final Soil Sampling report for Arco Station 0601

Enclosed you will find one copy of the Soil Sampling Report for the line/dispenser upgrade work performed at Arco Station 0601 San Leandro, CA. Should you have any questions regarding this report please call me at 408-297-9585.

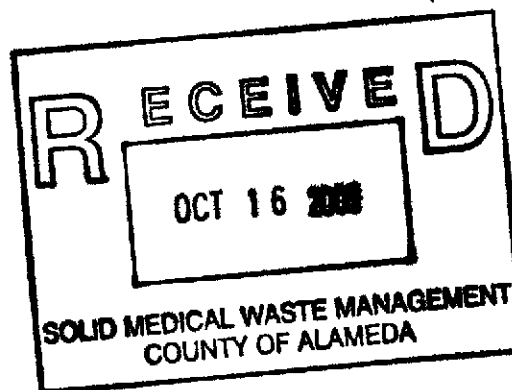
Regards,

Cc: Mr. Paul Supple, BP
Mrs. Karl Busche, ACHCSA
Mr. Mike Bakaldin, SLFD
Mr. Scott Robinson, URS

URS

October 9, 2003

Mr. Karl Busche
City of San Leandro Environmental Services Division
Civic Center
835 East 14th Street
San Leandro, CA 94577



Re: Dispenser and Product Line Removal and Upgrade Soil Sampling Report
ARCO Service Station No. 0601
712 Lewelling Boulevard
San Leandro, California
URS Project No. 38486284

Dear Mr. Busche:

URS Corporation (URS) has prepared this report on behalf BP West Coast Products, LLC to document the soil sampling conducted during the removal and replacement of the product line piping and dispensers at the above referenced site.

Site Background

The site is located at 712 Lewelling Boulevard San Leandro, California (Figures 1 and 2). Currently, the Site is operated as an ARCO gasoline service station. The Site is bound by Lewelling Boulevard to the northwest, Washington Avenue to the northeast, residential units to the southeast, and a commercial parking lot to the southwest. The majority of the site is concrete and asphalt paved.

Current site structures include four 10,000 gallon-gasoline underground storage tanks (UST's), two pump islands with eight dispensers, and a convenience store building with two unused automobile service bays. Currently, groundwater monitoring at this site is conducted on a quarterly basis.

Fuel Dispenser and Product Line Soil Sampling

All dispensers and associated double walled product line piping were excavated, removed, and disposed of by the contractor, Wilcon Builders Inc., on June 18, 2003. Prior to collecting soil samples, select sampling locations were reviewed, marked in the field and approved by Mr. Karl Busche of the City of San Leandro Environmental Services Department. In addition, URS personnel collected additional soil samples at other select locations. Soil samples were collected in the native soil beneath each dispenser and along the fuel piping trenches. Prior to sampling, URS personnel inspected the fuel piping trenches for any observable soil staining or hydrocarbon odor.

URS Corporation
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Sampling locations were also field screened for volatile organic compounds using a Photo Ionization Detector (PID).

No obvious soil staining was reported at any of the soil sampling locations. Slight hydrocarbon odors were reported at three sampling locations (PL-2, PL-7 and PL-13), with a strong hydrocarbon odor reported at sample location D-6. Measurable PID readings were detected at seven soil sampling locations ranging between 1.0 ppm (parts per million)(at sample D-3), and 685 ppm (at sample location D-6).

Under URS direction, Wilcon Builders Inc. operated a backhoe bucket to excavate to the specified sampling depth at each soil sampling location. URS personnel collected soil samples by pushing 4-inch long by 2-inch diameter brass tubes into the native soil collected by the contractor operated backhoe bucket. Samples were collected at the following depths and locations:

- Eight soil samples (designated D-1 through D-8) were collected from depths ranging between 4 feet and 5 feet below ground surface (bgs) at the former fuel dispenser locations (Figure 2);
- Twelve soil samples (designated PL-1 through PL-4, and PL-7 through PL-14) were collected at depths ranging between 4 feet and 6 feet bgs from beneath the former product piping locations near the dispensers and towards the USTs (Figure 2).

Two soil sampling locations designated as PL-5 and PL-6 were not collected since they were excavated in the area where the former UST's were located and no cohesive soils were encountered. The soil samples collected were submitted to a California State Certified laboratory, Sequoia Analytical Laboratory (Lab) in Morgan Hill, California for analysis. The samples were analyzed by EPA Method 8260B for: benzene, toluene, ethylbenzene, total xylenes (BTEX); the fuel oxygenates Methyl-tert-Butyl Ether (MTBE), ethanol, tert-Butyl Alcohol (TBA), Di-Isopropyl Ether (DIPE), Ethyl-tert-Butyl Ether (ETBE); tert-Amyl Methyl Ether (TAME), Ethylene dibromide (EDB), and Ethylene dichloride (EDC). Due to a Lab oversight, no samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g). However, the site is actively monitored for TPH-g on a quarterly basis, and TPH-g historically has not been detected in groundwater at the site.

Seven of the soil samples collected were reported by the Lab to contain various BTEX concentrations, the highest of which were detected at sampling locations D-6, PL-2 and PL-13. Soil sample D-6 reported toluene concentrations at 230 ppm, and xylenes at 350 ppm. Soil sample PL-2 reported toluene concentrations at 14 ppm, while PL-13 reported xylene concentrations at 30 ppm. Additionally, seven soil samples were reported with low concentrations of various other chemical constituents such as buthlybenzene, naphthalene, n-propylbenzene, p-isopropylene, and trimethylbenzene. A full list of these are included in Attachment B. No MTBE or other fuel oxygenate concentrations were detected in any of the twenty soil samples submitted to the Lab (Table 1).

Groundwater Sampling and Disposal

As part of the line/dispenser upgrades, the concrete pad covering the existing USTs was removed and new plumbing and sumps were installed. During these activities groundwater was encountered. The groundwater was extracted from the tank pit area in order to not compromise the integrity of the USTs. The extracted groundwater was stored in a 21,000-gallon tank on-site (Baker tank), until it could be sampled and analyzed.

A water sample was collected from the Baker tank and labeled "TW-1" on June 17, 2003. At the request of the Oro Loma Sanitary District (OLSD), the water sample was submitted to the Lab, and analyzed for the same chemicals listed above, in addition to total metals, phenols, cyanide and pH (analytical methods are listed in Attachment A). The Lab reported non-detect concentrations for all chemicals of concern, except for MTBE at 290 ppb (ug/l). The pH analysis resulted in a value of 6.96 pH units (Table 3).

During the approximate month of intermittent groundwater extraction from the UST pit, approximately 21,000 gallons of groundwater was collected. Once analyzed and approved for disposal by the OLSD, the groundwater was discharged to the sanitary sewer, per an OLSD discharge permit.

Stockpile Soil Sampling and Disposal

The soil excavated during the removal and replacement of the product lines and dispensers was stockpiled separately from visually clean native soil designated as backfill. On June 24, 2003, URS personnel collected soil samples from the stockpiled soil on-site and submitted them to the Lab, where they were combined into a single sample (Sample ID "601"). The composite sample was analyzed for the same constituents of concern and analytical methods as for the product line and dispenser soil samples listed above, as well as total lead for disposal purposes.

The Lab reported various BTEX concentrations, with non-detect concentrations reported for toluene and MTBE. As in the dispenser and product line samples, the Lab also reported low concentrations of various other chemical constituents such as buthlybenzene, naphthalene, n-propylbenzene, and trimethylbenzene. Total lead was reported at a concentration of 17 ppm (Table 2).

The analytical results from these samples were used to profile and dispose of these soils. Between July 3 and 9, 2003, Dillard Environmental Services removed approximately 100 tons of non-hazardous soil from the site and transported it to Republic Services Vasco Road Landfill a Class II landfill located in Livermore, California.

Field and laboratory procedures for all samples collected are presented in Attachment A. Laboratory analytical reports and chain-of-custody documentation are presented in Attachment B. Field Sampling Data Sheets are presented in Attachment C. Copies of the waste manifests are presented in Attachment D.

Conclusions

Based on the analytical data collected and field observations made during the product line and dispenser island upgrades URS concludes the following:

- Soil sample analytical results indicate that minimal concentrations of BTEX constituents and no MTBE or ethanol concentrations were found in the vadose zone.
- Groundwater concentrations for MTBE appear elevated and should continue to be monitored on a quarterly basis.
- All pre-existing product lines and fuel dispensers were removed and replaced in approximately the same locations, backfilled with pea gravel, and paved with concrete.

This report was prepared and is based on data, site conditions, and other information that are generally applicable as of the date of the report. The conclusions and recommendations herein are therefore applicable only to that time frame.

Background information, including but not limited to previous field measurements, site plans, and other data, has been furnished to URS by BP, its previous consultants, and/or third parties that URS has used in preparing this report. URS has relied on this information as furnished. URS is not responsible for nor has it confirmed the accuracy of this information.

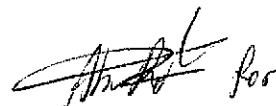
If you have any questions or comments regarding this report, please contact Scott Robinson with URS at (510) 874-3280.

Sincerely,

URS CORPORATION



Henry Barrientos
Project Engineer



Scott Robinson
Project Manager

Attachments:

Table 1	Line/Dispenser Soil Sample Results
Table 2	Stockpile Soil Sample Results
Table 3	Groundwater Sample Results
Figure 1	Site Vicinity Map
Figure 2	Soil Sample Location Map

Attachment A Field and Laboratory Procedures
Attachment B Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment C Field Sampling Data Sheets
Attachment D Waste Manifests

cc: Mr. Paul Supple, Atlantic Richfield Company, P.O. Box 6549, Moraga, CA 94549
 Mrs. Eva Chu, Alameda County Health Care Services Agency, 1131 Harbor Bay Pkwy,
 2nd Floor, Alameda, CA 94502
 Mr. Mike Bakaldin, San Leandro Fire Department, Hazardous Materials Program, 835
 East 14th Street, San Leandro, CA 94577.

Table 1
LINE/DISPENSER SOIL SAMPLE RESULTS

Soil Sample ID	Sample Depth (feet) ^a	Date Sampled	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	MTBE (ppm)
D-1	4.0	06/18/03	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017
D-2	4.0	06/18/03	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017
D-3	4.0	06/18/03	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017
D-4 ^a	4.0	06/18/03	ND<0.0016	0.0091	ND<0.0016	0.0088	ND<0.0016
D-5 ^a	4.0	06/18/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
D-6 ^a	4.0	06/18/03	7	230	55	350	ND <2.5
D-7	5.0	06/19/03	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016
D-8	4.0	06/19/03	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016
PL-1	4.0	06/18/03	ND <0.0014	ND <0.0014	ND <0.0014	ND <0.0014	ND <0.0014
PL-2 ^a	4.0	06/18/03	1.2	14	1.5	9.7	ND <0.25
PL-3	4.0	06/18/03	ND <0.0017	0.0026	ND <0.0017	0.0036	ND <0.0017
PL-4	4.0	06/18/03	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016
PL-7 ^a	5.0	06/18/03	ND <0.05	ND <0.05	ND <0.05	0.14	ND <0.025
PL-8 ^a	6.0	06/19/03	ND <0.05	ND <0.05	0.27	0.11	ND <0.025
PL-9	4.0	06/18/03	ND <0.0017	ND <0.0017	ND <0.0017	ND <0.0017	ND <0.0017
PL-10	5.0	06/19/03	ND <0.0019	ND <0.0019	ND <0.0019	ND <0.0019	ND <0.0019
PL-11	4.0	06/19/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
PL-12	5.0	06/19/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
PL-13 ^a	4.0	06/19/03	ND <0.5	ND <0.5	5.6	30	ND <0.25
PL-14	6.0	06/19/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
Over Excavation Sample.							
OE PL-2 ^a	8.0	06/19/03	0.1500	0.1800	0.0063	0.6400	0.0045

Notes:

a. The Lab analytical results also reported other chemical constituents in small quantities such as 1,2,3-Trimethylbenzene, n-Butylbenzene, Naphthalene, n-Propylbenzene, and p-Isopropyltoluene. A complete list of all chemicals can be found in the certified analytical results presented in Appendix B of this report.

Table 2
STOCKPILE SOIL SAMPLE RESULTS

Soil Sample ID	Date Sampled	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	MTBE (ppm)	Lead (ppm)
601 ^b	06/24/03	0.0026	ND <0.002	0.007	0.026	ND <0.002	17

Notes:

b. The Lab analytical results also reported other chemical constituents in small quantities such as Trimethylbenzene, Butylbenzene, Naphthalene, and n-Propylbenzene. A complete list of all chemicals can be found in the certified analytical results presented in Appendix B of this report.

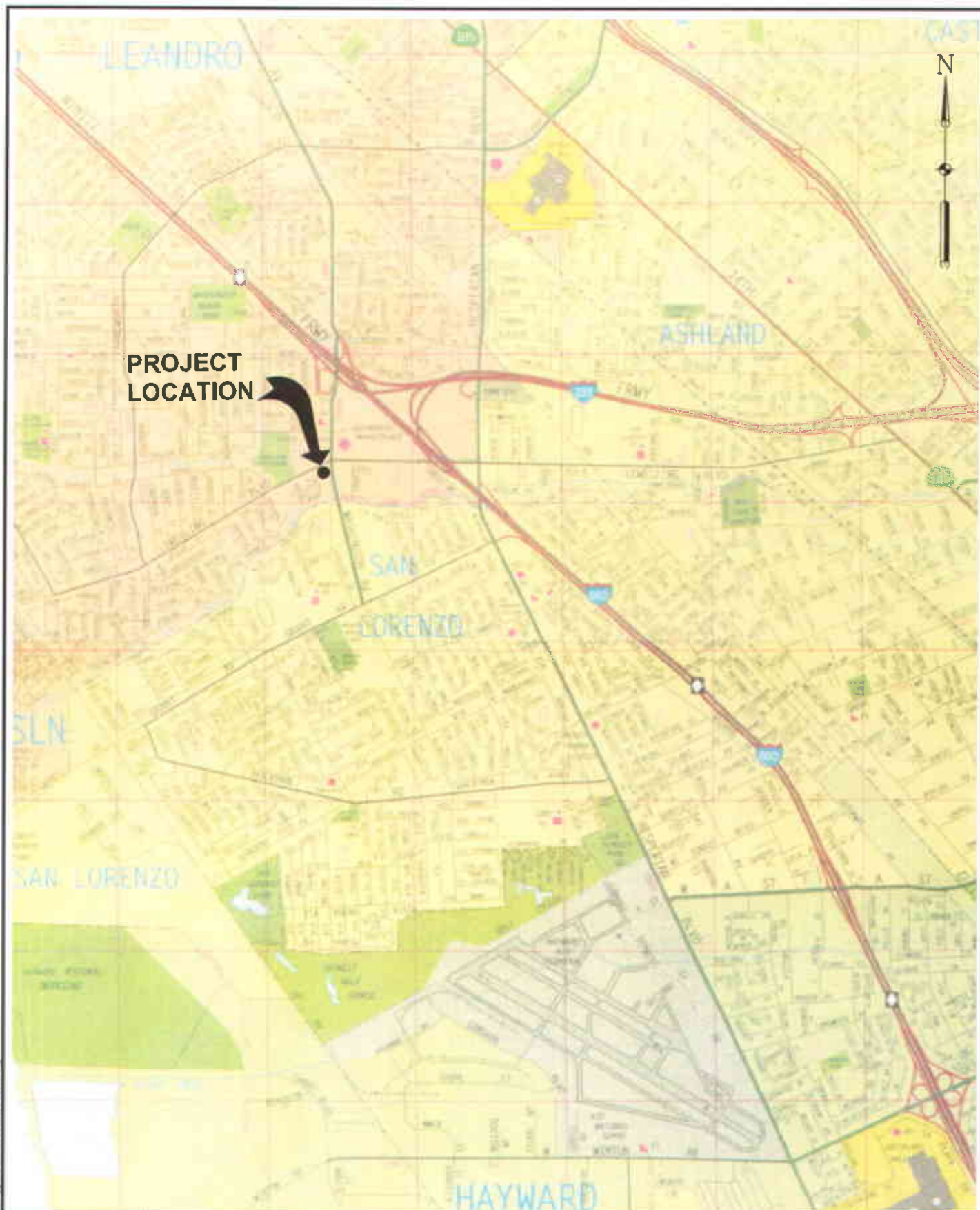
BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B.
MTBE = Methyl tert-Butyl Ether by EPA Method 8260B.
Lead = Total lead by EPA Method 6010B.
ppm = Parts per million.
ND < = Less than stated laboratory detection limit.

ARCO Service Station 601
712 Lewelling Boulevard
San Leandro, California

Table 3
GROUNDWATER SAMPLE RESULTS

Sample ID	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)	pH
TW-1	06/17/03	ND<5.0	ND<5.0	ND<5.0	ND<5.0	290	6.96

BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B.
MTBE = Methyl tert-Butyl Ether by EPA Method 8260B.
pH = pH by EPA Method 150.1
ppm = Parts per million.
ND < = Less than stated laboratory detection limit.



URS

Project No. 38486284
Arco Service Station 0601
712 Lewelling Boulevard
San Leandro, California

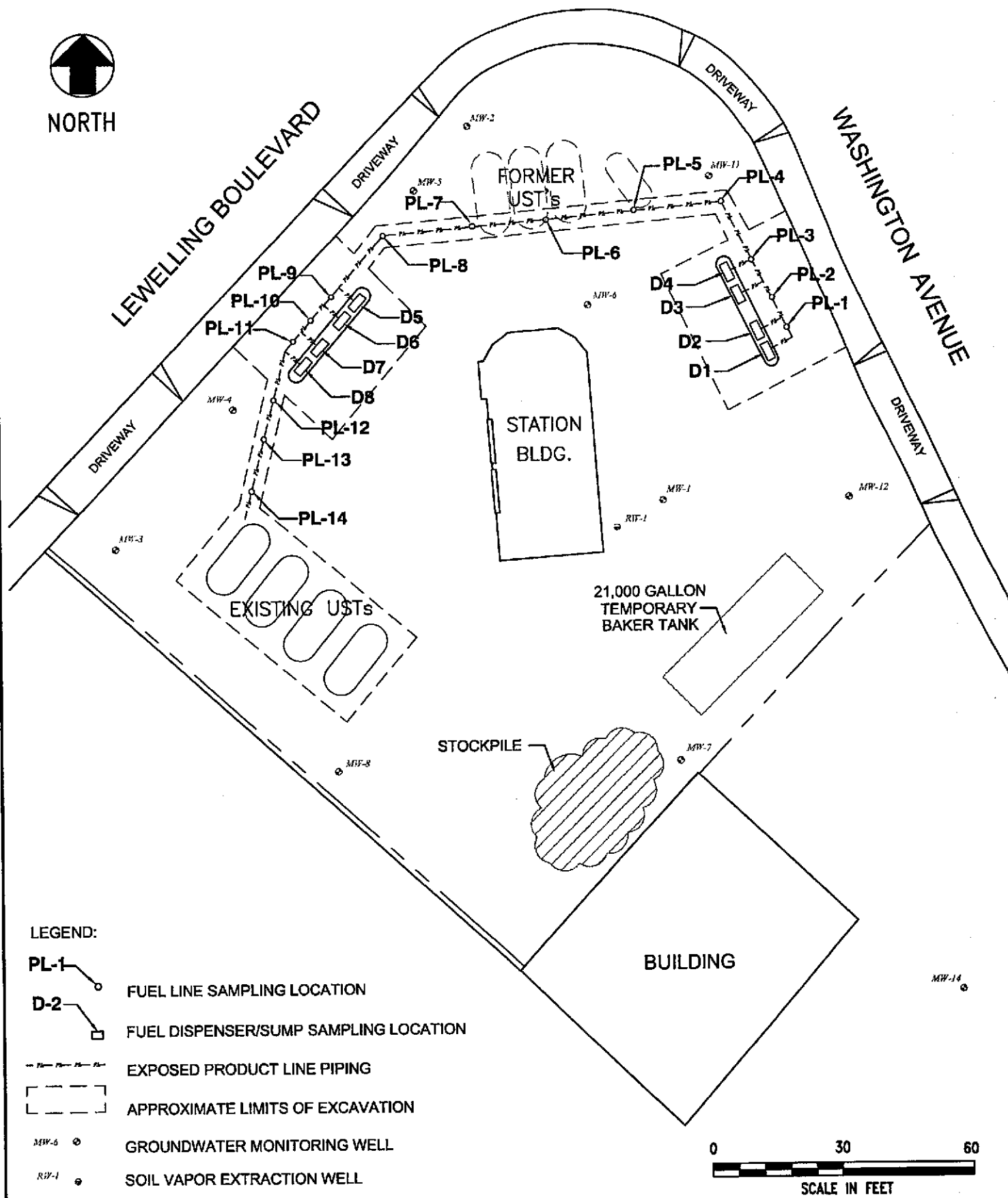
SITE VICINITY MAP

FIGURE

1



NORTH



URS

Project No. 38486284

Arco Service Station 0601
712 Lewelling Boulevard
San Leandro, California

SOIL SAMPLE LOCATION MAP

FIGURE

2

ATTACHMENT A
FIELD AND LABORATORY PROCEDURES

ATTACHMENT A

FIELD AND LABORATORY PROCEDURES

Soil Sampling

Soil samples were collected by advancing 4-inch long by 2-inch diameter brass sample liners into the (minimally) undisturbed soil contained in the contractor operated backhoe bucket. Soil samples for chemical analysis were retained in the brass liners, labeled, and capped with Teflon sheets and plastic end caps. The samples were then placed on ice, and transported to the laboratory accompanied by the appropriate chain-of-custody documentation.

Soil Sampling from Stockpiled Soil

Soil samples were collected by advancing 4-inch long by 2-inch diameter brass sample liners into the soil stockpile, after removing approximately 6 inches to 1 foot of surface material in the sample location. One composite sample (four sleeves to 1 sample) was collected per approximately 500 cubic yards of soil. Soil samples for chemical analysis were retained in the brass liners, labeled, and capped with Teflon sheets and plastic end caps. The samples were then placed on ice, and transported to the laboratory accompanied by the appropriate chain-of-custody documentation.

Groundwater Sampling

Groundwater samples were collected by dropping a plastic bailer into the temporary storage tank (Baker tank), and pouring the extracted groundwater into a series of VOAS and 1 litre bottles. The samples were then placed on ice, and transported to the laboratory accompanied by the appropriate chain-of-custody documentation.

Laboratory Analysis of Soil Samples

All samples were analyzed for TPH-g, benzene, toluene, ethylbenzene, xylenes (BTEX compounds), MTBE by EPA Method 8260B, and total lead by EPA Method 6010B. Soil samples were also analyzed for fuel oxygenates, ethanol, TBA, DIPE, ETBE, TAME, EDB, and EDC by EPA Method 8260B. Groundwater samples were analyzed for fuel oxygenates as listed above by EPA Method 8260B, total metals by EPA Method 200.7, mercury by EPA Method 7470A, phenols by EPA Method 420.1, pH units by EPA Method 150.1, and cyanide by EPA Method 335.2.

ATTACHMENT B

**LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY DOCUMENTATION**



Sequoia
Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

9 July, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #601, San Leandro, CA
Sequoia Work Order: MMF0628

Enclosed are the results of analyses for samples received by the laboratory on 06/19/03 18:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen
Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D-2	MMF0628-01	Soil	06/18/03 16:31	06/19/03 18:45
D-1	MMF0628-02	Soil	06/18/03 16:52	06/19/03 18:45
PL-1	MMF0628-03	Soil	06/18/03 17:05	06/19/03 18:45
PL-2	MMF0628-04	Soil	06/18/03 17:20	06/19/03 18:45
D-3	MMF0628-05	Soil	06/18/03 17:25	06/19/03 18:45
D-4	MMF0628-06	Soil	06/18/03 17:28	06/19/03 18:45
PL-3	MMF0628-07	Soil	06/18/03 17:34	06/19/03 18:45
PL-4	MMF0628-08	Soil	06/18/03 17:40	06/19/03 18:45
PL-7	MMF0628-09	Soil	06/18/03 18:26	06/19/03 18:45
D-5	MMF0628-10	Soil	06/18/03 18:30	06/19/03 18:45
D-6	MMF0628-11	Soil	06/18/03 18:42	06/19/03 18:45
PL-9	MMF0628-12	Soil	06/18/03 18:47	06/19/03 18:45
PL-10	MMF0628-13	Soil	06/19/03 08:25	06/19/03 18:45
D-8	MMF0628-14	Soil	06/19/03 08:45	06/19/03 18:45
PL-11	MMF0628-15	Soil	06/19/03 08:53	06/19/03 18:45
PL-13	MMF0628-16	Soil	06/19/03 09:10	06/19/03 18:45
PL-14	MMF0628-17	Soil	06/19/03 09:15	06/19/03 18:45
PL-12	MMF0628-18	Soil	06/19/03 09:30	06/19/03 18:45
PL-8	MMF0628-19	Soil	06/19/03 09:45	06/19/03 18:45
D-7	MMF0628-20	Soil	06/19/03 09:45	06/19/03 18:45

There were no custody seals that were received with this project.



Sequoia Analytical

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Morgan Hill, CA 95037
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FAX (408) 782-6308
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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-2 (MMF0628-01) Soil Sampled: 06/18/03 16:31 Received: 06/19/03 18:45									
Benzene	ND	1.7	ug/kg	3.42	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.7	"	"	"	"	"	"	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	6.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	6.8	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	6.8	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-2 (MMF0628-01) Soil Sampled: 06/18/03 16:31 Received: 06/19/03 18:45									
Styrene	ND	1.7	ug/kg	3.42	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Xylenes (total)	ND	1.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		105 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-140		"	"	"	"	
Ethanol	ND	140	"	3.42	"	"	"	"	
tert-Butyl alcohol	ND	68	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.7	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-140		"	"	"	"	



URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-1 (MMF0628-02) Soil Sampled: 06/18/03 16:52 Received: 06/19/03 18:45									
Benzene	ND	1.7	ug/kg	3.33	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.7	"	"	"	"	"	"	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	6.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	6.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	17	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	6.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-1 (MMF0628-02) Soil Sampled: 06/18/03 16:52 Received: 06/19/03 18:45									
Styrene	ND	1.7	ug/kg	3.33	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Xylenes (total)	ND	1.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		105 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	60-140		"	"	"	"	
Ethanol	ND	130	"	3.33	"	"	"	"	
tert-Butyl alcohol	ND	67	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.7	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-1 (MMF0628-03) Soil Sampled: 06/18/03 17:05 Received: 06/19/03 18:45									
Benzene	ND	1.4	ug/kg	2.78	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.4	"	"	"	"	"	"	
Bromochloromethane	ND	1.4	"	"	"	"	"	"	
Bromodichloromethane	ND	1.4	"	"	"	"	"	"	
Bromoform	ND	1.4	"	"	"	"	"	"	
Bromomethane	ND	5.6	"	"	"	"	"	"	
n-Butylbenzene	ND	1.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.4	"	"	"	"	"	"	
Chlorobenzene	ND	1.4	"	"	"	"	"	"	
Chloroethane	ND	5.6	"	"	"	"	"	"	
Chloroform	ND	1.4	"	"	"	"	"	"	
Chloromethane	ND	1.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.4	"	"	"	"	"	"	
Dibromochloromethane	ND	1.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.4	"	"	"	"	"	"	
Dibromomethane	ND	1.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.4	"	"	"	"	"	"	
Ethylbenzene	ND	1.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.4	"	"	"	"	"	"	
Isopropylbenzene	ND	1.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.4	"	"	"	"	"	"	
Methylene chloride	ND	5.6	"	"	"	"	"	"	
Naphthalene	ND	1.4	"	"	"	"	"	"	
n-Propylbenzene	ND	1.4	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-1 (MMF0628-03) Soil Sampled: 06/18/03 17:05 Received: 06/19/03 18:45									
Styrene	ND	1.4	ug/kg	2.78	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	
Tetrachloroethene	ND	1.4	"	"	"	"	"	"	
Toluene	ND	1.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.4	"	"	"	"	"	"	
Trichloroethene	ND	1.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.4	"	"	"	"	"	"	
Vinyl chloride	ND	1.4	"	"	"	"	"	"	
Xylenes (total)	ND	1.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		102 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	60-140		"	"	"	"	
Ethanol	ND	110	"	2.78	"	"	"	"	
tert-Butyl alcohol	ND	56	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.4	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.4	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.4	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.4	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-140		"	"	"	"	



URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-2 (MMF0628-04) Soil Sampled: 06/18/03 17:20 Received: 06/19/03 18:45									
Ethanol	ND	100	mg/kg	10	3G01002	07/01/03	07/01/03	EPA 8260B	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.25	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.25	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	60-140		"	"	"	"	
Benzene	1.2	0.50	"	10	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-2 (MMF0628-04) Soil Sampled: 06/18/03 17:20 Received: 06/19/03 18:45									
2,2-Dichloropropane	ND	0.50	mg/kg	10	3G01002	07/01/03	07/01/03	EPA 8260B	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	1.5	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	14	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.7	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.50	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	9.7	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.6 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-3 (MMF0628-05) Soil Sampled: 06/18/03 17:25 Received: 06/19/03 18:45									
Benzene	ND	1.7	ug/kg	3.47	3G01033	07/01/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.7	"	"	"	"	"	"	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	6.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	6.9	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	17	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	6.9	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-3 (MMF0628-05) Soil Sampled: 06/18/03 17:25 Received: 06/19/03 18:45									
Styrene	ND	1.7	ug/kg	3.47	3G01033	07/01/03	07/01/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Xylenes (total)	ND	1.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		116 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		100 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	60-140		"	"	"	"	
Ethanol	ND	140	"	3.47	"	"	"	"	
tert-Butyl alcohol	ND	69	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.7	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		116 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-4 (MMF0628-06) Soil Sampled: 06/18/03 17:28 Received: 06/19/03 18:45									
Benzene	ND	1.6	ug/kg	3.16	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.6	"	"	"	"	"	"	
Bromochloromethane	ND	1.6	"	"	"	"	"	"	
Bromodichloromethane	ND	1.6	"	"	"	"	"	"	
Bromoform	ND	1.6	"	"	"	"	"	"	
Bromomethane	ND	6.3	"	"	"	"	"	"	
n-Butylbenzene	ND	1.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.6	"	"	"	"	"	"	
Chlorobenzene	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	6.3	"	"	"	"	"	"	
Chloroform	ND	1.6	"	"	"	"	"	"	
Chloromethane	ND	16	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
Dibromochloromethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Dibromomethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.6	"	"	"	"	"	"	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Isopropylbenzene	ND	1.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.6	"	"	"	"	"	"	
Methylene chloride	ND	6.3	"	"	"	"	"	"	
Naphthalene	2.1	1.6	"	"	"	"	"	"	
n-Propylbenzene	ND	1.6	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-4 (MMF0628-06) Soil Sampled: 06/18/03 17:28 Received: 06/19/03 18:45									
Styrene	ND	1.6	ug/kg	3.16	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
Tetrachloroethene	ND	1.6	"	"	"	"	"	"	
Toluene	9.1	1.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.6	"	"	"	"	"	"	
Trichloroethene	ND	1.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.1	1.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
Vinyl chloride	ND	1.6	"	"	"	"	"	"	
Xylenes (total)	8.8	1.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		107 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	60-140		"	"	"	"	
Ethanol	ND	130	"	3.16	"	"	"	"	
tert-Butyl alcohol	ND	63	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.6	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.6	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.6	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-3 (MMF0628-07) Soil Sampled: 06/18/03 17:34 Received: 06/19/03 18:45									
Benzene	ND	1.7	ug/kg	3.4	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.7	"	"	"	"	"	"	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	6.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	6.8	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	6.8	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Sequoia Analytical

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland, CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-3 (MMF0628-07) Soil Sampled: 06/18/03 17:34 Received: 06/19/03 18:45									
Styrene	ND	1.7	ug/kg	3.4	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
Toluene	2.6	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Xylenes (total)	3.6	1.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		104 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-140		"	"	"	"	
Ethanol	ND	140	"	3.4	"	"	"	"	
tert-Butyl alcohol	ND	68	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.7	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

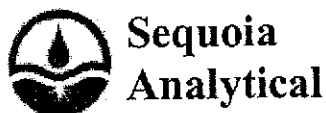
MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-4 (MMF0628-08) Soil Sampled: 06/18/03 17:40 Received: 06/19/03 18:45									
Benzene	ND	1.6	ug/kg	3.14	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.6	"	"	"	"	"	"	
Bromochloromethane	ND	1.6	"	"	"	"	"	"	
Bromodichloromethane	ND	1.6	"	"	"	"	"	"	
Bromoform	ND	1.6	"	"	"	"	"	"	
Bromomethane	ND	6.3	"	"	"	"	"	"	
n-Butylbenzene	ND	1.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.6	"	"	"	"	"	"	
Chlorobenzene	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	6.3	"	"	"	"	"	"	
Chloroform	ND	1.6	"	"	"	"	"	"	
Chloromethane	ND	16	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
Dibromochloromethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Dibromomethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.6	"	"	"	"	"	"	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Isopropylbenzene	ND	1.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.6	"	"	"	"	"	"	
Methylene chloride	ND	6.3	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
n-Propylbenzene	ND	1.6	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-4 (MMF0628-08) Soil Sampled: 06/18/03 17:40 Received: 06/19/03 18:45									
Styrene	ND	1.6	ug/kg	3.14	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
Tetrachloroethene	ND	1.6	"	"	"	"	"	"	
Toluene	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.6	"	"	"	"	"	"	
Trichloroethene	ND	1.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
Vinyl chloride	ND	1.6	"	"	"	"	"	"	
Xylenes (total)	ND	1.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		104 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-140		"	"	"	"	
Ethanol	ND	130	"	3.14	"	"	"	"	
tert-Butyl alcohol	ND	63	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.6	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.6	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.6	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-7 (MMF0628-09) Soil Sampled: 06/18/03 18:26 Received: 06/19/03 18:45									
Ethanol	ND	10	mg/kg	1	3G01002	07/01/03	07/01/03	EPA 8260B	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.025	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.025	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.025	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.025	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.025	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.025	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	60-140						
Benzene	ND	0.050	"	"	"	"	"	"	
Bromobenzene	ND	0.050	"	"	"	"	"	"	
Bromochloromethane	ND	0.050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.050	"	"	"	"	"	"	
Bromoform	ND	0.050	"	"	"	"	"	"	
Bromomethane	ND	0.20	"	"	"	"	"	"	
n-Butylbenzene	0.084	0.050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.050	"	"	"	"	"	"	
Chlorobenzene	ND	0.050	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.050	"	"	"	"	"	"	
Chloromethane	ND	0.20	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.050	"	"	"	"	"	"	
Dibromomethane	ND	0.050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.050	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-7 (MMF0628-09) Soil Sampled: 06/18/03 18:26 Received: 06/19/03 18:45									
2,2-Dichloropropane	ND	0.050	mg/kg	1	3G01002	07/01/03	07/01/03	EPA 8260B	
1,1-Dichloropropene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.050	"	"	"	"	"	"	
Methylene chloride	ND	0.050	"	"	"	"	"	"	
Naphthalene	0.21	0.20	"	"	"	"	"	"	
n-Propylbenzene	ND	0.050	"	"	"	"	"	"	
Styrene	ND	0.050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.050	"	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.050	"	"	"	"	"	"	
Trichloroethene	ND	0.050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.43	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.17	0.050	"	"	"	"	"	"	
Vinyl chloride	ND	0.050	"	"	"	"	"	"	
Xylenes (total)	0.14	0.050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.6 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		107 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-5 (MMF0628-10) Soil Sampled: 06/18/03 18:30 Received: 06/19/03 18:45									
Benzene	ND	1.5	ug/kg	3.09	3F30001	06/30/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.5	"	"	"	"	"	"	
Bromochloromethane	ND	1.5	"	"	"	"	"	"	
Bromodichloromethane	ND	1.5	"	"	"	"	"	"	
Bromoform	ND	1.5	"	"	"	"	"	"	
Bromomethane	ND	6.2	"	"	"	"	"	"	
n-Butylbenzene	ND	1.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.5	"	"	"	"	"	"	
Chlorobenzene	ND	1.5	"	"	"	"	"	"	
Chloroethane	ND	6.2	"	"	"	"	"	"	
Chloroform	ND	1.5	"	"	"	"	"	"	
Chloromethane	ND	1.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
Dibromochloromethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Dibromomethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.5	"	"	"	"	"	"	
Ethylbenzene	ND	1.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	"	
Isopropylbenzene	ND	1.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.5	"	"	"	"	"	"	
Methylene chloride	ND	6.2	"	"	"	"	"	"	
Naphthalene	ND	1.5	"	"	"	"	"	"	
n-Propylbenzene	ND	1.5	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-5 (MMF0628-10) Soil Sampled: 06/18/03 18:30 Received: 06/19/03 18:45									
Styrene	ND	1.5	ug/kg	3.09	3F30001	06/30/03	07/01/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
Tetrachloroethene	ND	1.5	"	"	"	"	"	"	
Toluene	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.5	"	"	"	"	"	"	
Trichloroethene	ND	1.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.9	1.5	"	"	"	"	"	"	
Vinyl chloride	ND	1.5	"	"	"	"	"	"	
Xylenes (total)	ND	1.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		106 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	60-140		"	"	"	"	
Ethanol	ND	120	"	3.09	"	"	"	"	
tert-Butyl alcohol	ND	62	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-6 (MMF0628-11) Soil Sampled: 06/18/03 18:42 Received: 06/19/03 18:45									
Ethanol	ND	1000	mg/kg	100	3G01002	07/01/03	07/01/03	EPA 8260B	
tert-Butyl alcohol	ND	500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	60-140		"	"	"	"	
Benzene	7.0	5.0	"	100	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	20	"	"	"	"	"	"	
n-Butylbenzene	7.7	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	20	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-6 (MMF0628-11) Soil Sampled: 06/18/03 18:42 Received: 06/19/03 18:45									
2,2-Dichloropropane	ND	5.0	mg/kg	100	3G01002	07/01/03	07/01/03	EPA 8260B	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	55	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	20	"	"	"	"	"	"	
n-Propylbenzene	13	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	230	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	110	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	31	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	350	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.6 %	60-140	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-140	"	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-140	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	60-140	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-9 (MMF0628-12) Soil Sampled: 06/18/03 18:47 Received: 06/19/03 18:45									
Benzene	ND	1.7	ug/kg	3.42	3G01033	07/01/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.7	"	"	"	"	"	"	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	6.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	6.8	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	17	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	6.8	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-9 (MMF0628-12) Soil Sampled: 06/18/03 18:47 Received: 06/19/03 18:45									
Styrene	ND	1.7	ug/kg	3.42	3G01033	07/01/03	07/01/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Xylenes (total)	ND	1.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	60-140		"	"	"	"	
Ethanol	ND	140	"	3.42	"	"	"	"	
tert-Butyl alcohol	ND	68	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.7	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.7	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-10 (MMF0628-13) Soil Sampled: 06/19/03 08:25 Received: 06/19/03 18:45									
Benzene	ND	1.9	ug/kg	3.73	3G02004	07/02/03	07/03/03	EPA 8260B	
Bromobenzene	ND	1.9	"	"	"	"	"	"	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	7.5	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	7.5	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	7.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	7.5	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-10 (MMF0628-13) Soil Sampled: 06/19/03 08:25 Received: 06/19/03 18:45									
Styrene	ND	1.9	ug/kg	3.73	3G02004	07/02/03	07/03/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Xylenes (total)	ND	1.9	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.0 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		91.4 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	60-140		"	"	"	"	
Ethanol	ND	150	"	3.73	"	"	"	"	
tert-Butyl alcohol	ND	75	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.9	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.9	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.9	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-8 (MMF0628-14) Soil Sampled: 06/19/03 08:45 Received: 06/19/03 18:45									
Benzene	ND	1.6	ug/kg	3.14	3F30001	06/30/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.6	"	"	"	"	"	"	
Bromochloromethane	ND	1.6	"	"	"	"	"	"	
Bromodichloromethane	ND	1.6	"	"	"	"	"	"	
Bromoform	ND	1.6	"	"	"	"	"	"	
Bromomethane	ND	6.3	"	"	"	"	"	"	
n-Butylbenzene	ND	1.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.6	"	"	"	"	"	"	
Chlorobenzene	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	6.3	"	"	"	"	"	"	
Chloroform	ND	1.6	"	"	"	"	"	"	
Chloromethane	ND	16	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
Dibromochloromethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Dibromomethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.6	"	"	"	"	"	"	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Isopropylbenzene	ND	1.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.6	"	"	"	"	"	"	
Methylene chloride	ND	6.3	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
n-Propylbenzene	ND	1.6	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-8 (MMF0628-14) Soil Sampled: 06/19/03 08:45 Received: 06/19/03 18:45									
Styrene	ND	1.6	ug/kg	3.14	3F30001	06/30/03	07/01/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
Tetrachloroethene	ND	1.6	"	"	"	"	"	"	
Toluene	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.6	"	"	"	"	"	"	
Trichloroethene	ND	1.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
Vinyl chloride	ND	1.6	"	"	"	"	"	"	
Xylenes (total)	ND	1.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		105 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	60-140		"	"	"	"	
Ethanol	ND	130	"	3.14	"	"	"	"	
tert-Butyl alcohol	ND	63	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.6	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.6	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.6	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114 %	60-140		"	"	"	"	



Sequoia Analytical

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URS Corporation [Arco]
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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-11 (MMF0628-15) Soil Sampled: 06/19/03 08:53 Received: 06/19/03 18:45									
Benzene	ND	1.5	ug/kg	3.05	3F30001	06/30/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.5	"	"	"	"	"	"	
Bromochloromethane	ND	1.5	"	"	"	"	"	"	
Bromodichloromethane	ND	1.5	"	"	"	"	"	"	
Bromoform	ND	1.5	"	"	"	"	"	"	
Bromomethane	ND	6.1	"	"	"	"	"	"	
n-Butylbenzene	ND	1.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.5	"	"	"	"	"	"	
Chlorobenzene	ND	1.5	"	"	"	"	"	"	
Chloroethane	ND	6.1	"	"	"	"	"	"	
Chloroform	ND	1.5	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
Dibromochloromethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Dibromomethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.5	"	"	"	"	"	"	
Ethylbenzene	ND	1.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	"	
Isopropylbenzene	ND	1.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.5	"	"	"	"	"	"	
Methylene chloride	ND	6.1	"	"	"	"	"	"	
Naphthalene	ND	1.5	"	"	"	"	"	"	
n-Propylbenzene	ND	1.5	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-11 (MMF0628-15) Soil Sampled: 06/19/03 08:53 Received: 06/19/03 18:45									
Styrene	ND	1.5	ug/kg	3.05	3F30001	06/30/03	07/01/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
Tetrachloroethene	ND	1.5	"	"	"	"	"	"	
Toluene	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.5	"	"	"	"	"	"	
Trichloroethene	ND	1.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
Vinyl chloride	ND	1.5	"	"	"	"	"	"	
Xylenes (total)	ND	1.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		116 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		108 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	60-140		"	"	"	"	
Ethanol	ND	120	"	3.05	"	"	"	"	
tert-Butyl alcohol	ND	61	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		116 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-13 (MMF0628-16) Soil Sampled: 06/19/03 09:10 Received: 06/19/03 18:45									
Ethanol	ND	100	mg/kg	10	3G01002	07/01/03	07/01/03	EPA 8260B	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.25	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.25	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	60-140						
Benzene	ND	0.50	"	10	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	4.5	0.50	"	"	"	"	"	"	
sec-Butylbenzene	0.88	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-13 (MMF0628-16) Soil Sampled: 06/19/03 09:10 Received: 06/19/03 18:45									
2,2-Dichloropropane	ND	0.50	mg/kg	10	3G01002	07/01/03	07/01/03	EPA 8260B	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	5.6	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene	1.0	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	0.52	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	5.7	2.0	"	"	"	"	"	"	
n-Propylbenzene	5.5	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	36	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	12	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	30	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.2 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		106 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-14 (MMF0628-17) Soil Sampled: 06/19/03 09:15 Received: 06/19/03 18:45									
Benzene	ND	1.5	ug/kg	3.05	3G01033	07/01/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.5	"	"	"	"	"	"	
Bromochloromethane	ND	1.5	"	"	"	"	"	"	
Bromodichloromethane	ND	1.5	"	"	"	"	"	"	
Bromoform	ND	1.5	"	"	"	"	"	"	
Bromomethane	ND	6.1	"	"	"	"	"	"	
n-Butylbenzene	ND	1.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.5	"	"	"	"	"	"	
Chlorobenzene	ND	1.5	"	"	"	"	"	"	
Chloroethane	ND	6.1	"	"	"	"	"	"	
Chloroform	ND	1.5	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
Dibromochloromethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Dibromomethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.5	"	"	"	"	"	"	
Ethylbenzene	ND	1.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	"	
Isopropylbenzene	ND	1.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.5	"	"	"	"	"	"	
Methylene chloride	ND	6.1	"	"	"	"	"	"	
Naphthalene	ND	1.5	"	"	"	"	"	"	
n-Propylbenzene	ND	1.5	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-14 (MMF0628-17) Soil Sampled: 06/19/03 09:15 Received: 06/19/03 18:45									
Styrene	ND	1.5	ug/kg	3.05	3G01033	07/01/03	07/01/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
Tetrachloroethene	ND	1.5	"	"	"	"	"	"	
Toluene	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.5	"	"	"	"	"	"	
Trichloroethene	ND	1.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
Vinyl chloride	ND	1.5	"	"	"	"	"	"	
Xylenes (total)	ND	1.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-140		"	"	"	"	
Ethanol	ND	120	"	3.05	"	"	"	"	
tert-Butyl alcohol	ND	61	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-12 (MMF0628-18) Soil Sampled: 06/19/03 09:30 Received: 06/19/03 18:45									
Benzene	ND	1.5	ug/kg	2.98	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.5	"	"	"	"	"	"	
Bromochloromethane	ND	1.5	"	"	"	"	"	"	
Bromodichloromethane	ND	1.5	"	"	"	"	"	"	
Bromoform	ND	1.5	"	"	"	"	"	"	
Bromomethane	ND	6.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.5	"	"	"	"	"	"	
Chlorobenzene	ND	1.5	"	"	"	"	"	"	
Chloroethane	ND	6.0	"	"	"	"	"	"	
Chloroform	ND	1.5	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
Dibromochloromethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Dibromomethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.5	"	"	"	"	"	"	
Ethylbenzene	ND	1.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	"	
Isopropylbenzene	ND	1.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.5	"	"	"	"	"	"	
Methylene chloride	ND	6.0	"	"	"	"	"	"	
Naphthalene	ND	1.5	"	"	"	"	"	"	
n-Propylbenzene	ND	1.5	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-12 (MMF0628-18) Soil Sampled: 06/19/03 09:30 Received: 06/19/03 18:45									
Styrene	ND	1.5	ug/kg	2.98	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
Tetrachloroethene	ND	1.5	"	"	"	"	"	"	
Toluene	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.5	"	"	"	"	"	"	
Trichloroethene	ND	1.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
Vinyl chloride	ND	1.5	"	"	"	"	"	"	
Xylenes (total)	ND	1.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		108 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-140		"	"	"	"	
Ethanol	ND	120	"	2.98	"	"	"	"	
tert-Butyl alcohol	ND	60	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-8 (MMF0628-19) Soil Sampled: 06/19/03 09:45 Received: 06/19/03 18:45									
Ethanol	ND	10	mg/kg	1	3G01002	07/01/03	07/01/03	EPA 8260B	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.025	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.025	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.025	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.025	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.025	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.025	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.0 %	60-140						
Benzene	ND	0.050	"	"	"	"	"	"	
Bromobenzene	ND	0.050	"	"	"	"	"	"	
Bromochloromethane	ND	0.050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.050	"	"	"	"	"	"	
Bromoform	ND	0.050	"	"	"	"	"	"	
Bromomethane	ND	0.20	"	"	"	"	"	"	
n-Butylbenzene	1.1	0.050	"	"	"	"	"	"	
sec-Butylbenzene	0.20	0.050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.050	"	"	"	"	"	"	
Chlorobenzene	ND	0.050	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.050	"	"	"	"	"	"	
Chloromethane	ND	0.20	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.050	"	"	"	"	"	"	
Dibromomethane	ND	0.050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.050	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-8 (MMF0628-19) Soil Sampled: 06/19/03 09:45 Received: 06/19/03 18:45									
2,2-Dichloropropane	ND	0.050	mg/kg	1	3G01002	07/01/03	07/01/03	EPA 8260B	
1,1-Dichloropropene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	0.27	0.050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.050	"	"	"	"	"	"	
Isopropylbenzene	0.097	0.050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.050	"	"	"	"	"	"	
Methylene chloride	ND	0.050	"	"	"	"	"	"	
Naphthalene	1.5	0.20	"	"	"	"	"	"	
n-Propylbenzene	0.54	0.050	"	"	"	"	"	"	
Styrene	ND	0.050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.050	"	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.050	"	"	"	"	"	"	
Trichloroethene	ND	0.050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.34	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.050	"	"	"	"	"	"	
Vinyl chloride	ND	0.050	"	"	"	"	"	"	
Xylenes (total)	0.11	0.050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		87.8 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		114 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	60-140		"	"	"	"	



URS Corporation [Arco]
500 12th Street, Suite 100
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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

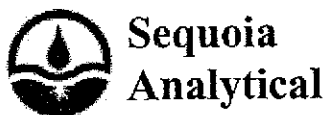
MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-7 (MMF0628-20) Soil Sampled: 06/19/03 09:45 Received: 06/19/03 18:45									
Benzene	ND	1.6	ug/kg	3.25	3G03012	07/03/03	07/03/03	EPA 8260B	
Bromobenzene	ND	1.6	"	"	"	"	"	"	
Bromochloromethane	ND	1.6	"	"	"	"	"	"	
Bromodichloromethane	ND	1.6	"	"	"	"	"	"	
Bromoform	ND	1.6	"	"	"	"	"	"	
Bromomethane	ND	6.5	"	"	"	"	"	"	
n-Butylbenzene	ND	1.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.6	"	"	"	"	"	"	
Chlorobenzene	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	6.5	"	"	"	"	"	"	
Chloroform	ND	1.6	"	"	"	"	"	"	
Chloromethane	ND	16	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
Dibromochloromethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Dibromomethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.6	"	"	"	"	"	"	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Isopropylbenzene	ND	1.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.6	"	"	"	"	"	"	
Methylene chloride	ND	6.5	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
n-Propylbenzene	ND	1.6	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-7 (MMF0628-20) Soil Sampled: 06/19/03 09:45 Received: 06/19/03 18:45									
Styrene	ND	1.6	ug/kg	3.25	3G03012	07/03/03	07/03/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
Tetrachloroethene	ND	1.6	"	"	"	"	"	"	
Toluene	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.6	"	"	"	"	"	"	
Trichloroethene	ND	1.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
Vinyl chloride	ND	1.6	"	"	"	"	"	"	
Xylenes (total)	ND	1.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		92.0 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		90.2 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	60-140		"	"	"	"	
Ethanol	ND	130	"	3.25	"	"	"	"	
tert-Butyl alcohol	ND	65	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.6	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.6	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.6	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F30001 - EPA 5035

Blank (3F30001-BLK1)

Prepared & Analyzed: 06/30/03

cis-1,3-Dichloropropene	ND	0.50	ug/kg
Freon 113	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Benzene	ND	0.50	"
Ethanol	ND	40	"
Bromobenzene	ND	0.50	"
tert-Butyl alcohol	ND	20	"
Bromochloromethane	ND	0.50	"
Methyl tert-butyl ether	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Di-isopropyl ether	ND	0.50	"
Bromoform	ND	0.50	"
Ethyl tert-butyl ether	ND	0.50	"
Bromomethane	ND	2.0	"
tert-Amyl methyl ether	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
n-Butylbenzene	ND	0.50	"
1,2-Dibromoethane (EDB)	ND	0.50	"
sec-Butylbenzene	ND	0.50	"
tert-Butylbenzene	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	2.0	"
Chloroform	ND	0.50	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	0.50	"
4-Chlorotoluene	ND	0.50	"
Dibromochloromethane	ND	0.50	"
1,2-Dibromoethane (EDB)	ND	0.50	"
Dibromomethane	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	2.0	"
1,2-Dichlorobenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F30001 - EPA 5035

Blank (3F30001-BLK1)

Prepared & Analyzed: 06/30/03

1,2-Dichloroethane	ND	0.50	ug/kg
1,1-Dichloroethene	ND	0.50	"
cis-1,2-Dichloroethene	ND	0.50	"
trans-1,2-Dichloroethene	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3-Dichloropropane	ND	0.50	"
2,2-Dichloropropane	ND	0.50	"
1,1-Dichloropropene	ND	0.50	"
Ethylbenzene	ND	0.50	"
Hexachlorobutadiene	ND	0.50	"
Isopropylbenzene	ND	0.50	"
p-Isopropyltoluene	ND	0.50	"
Methylene chloride	ND	2.0	"
Naphthalene	ND	0.50	"
n-Propylbenzene	ND	0.50	"
Styrene	ND	0.50	"
1,1,1,2-Tetrachloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
Tetrachloroethene	ND	0.50	"
Toluene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,1,1-Trichloroethane	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
Trichloroethene	ND	0.50	"
Trichlorofluoromethane	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
Vinyl chloride	ND	0.50	"
Xylenes (total)	ND	0.50	"

Surrogate: 1,2-Dichloroethane-d4	5.55	"	5.00	111	60-140
Surrogate: Dibromofluoromethane	5.12	"	5.00	102	60-140
Surrogate: 1,2-Dichloroethane-d4	5.55	"	5.00	111	60-140
Surrogate: Toluene-d8	5.27	"	5.00	105	60-140

Sequoia Analytical - Morgan Hill

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Sequoia Analytical

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URS Corporation [Arco]
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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F30001 - EPA 5035

Blank (3F30001-BLK1)

Prepared & Analyzed: 06/30/03

Surrogate: 4-Bromofluorobenzene	5.34		ug/kg	5.00		107	60-140			
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Laboratory Control Sample (3F30001-BS1)

Prepared & Analyzed: 06/30/03

Benzene	10.0	0.50	ug/kg	10.0		100	60-140			
Methyl tert-butyl ether	10.4	0.50	"	10.0		104	60-140			
Chlorobenzene	11.3	0.50	"	10.0		113	60-140			
1,1-Dichloroethene	10.2	0.50	"	10.0		102	60-140			
Toluene	11.0	0.50	"	10.0		110	60-140			
Trichloroethene	10.8	0.50	"	10.0		108	60-140			

Surrogate: 1,2-Dichloroethane-d4	5.51		"	5.00		110	60-140			
Surrogate: Dibromofluoromethane	5.44		"	5.00		109	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.51		"	5.00		110	60-140			
Surrogate: Toluene-d8	5.43		"	5.00		109	60-140			
Surrogate: 4-Bromofluorobenzene	5.80		"	5.00		116	60-140			

Laboratory Control Sample (3F30001-BS2)

Prepared & Analyzed: 06/30/03

Benzene	4.37	0.50	ug/kg	6.40		68.3	60-140			
Methyl tert-butyl ether	7.92	0.50	"	9.92		79.8	60-140			
Toluene	29.2	0.50	"	29.7		98.3	60-140			

Surrogate: 1,2-Dichloroethane-d4	5.57		"	5.00		111	60-140			
Surrogate: Dibromofluoromethane	5.05		"	5.00		101	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.57		"	5.00		111	60-140			
Surrogate: Toluene-d8	5.32		"	5.00		106	60-140			
Surrogate: 4-Bromofluorobenzene	5.46		"	5.00		109	60-140			

Laboratory Control Sample Dup (3F30001-BSD2)

Prepared & Analyzed: 06/30/03

Benzene	4.88	0.50	ug/kg	6.40		76.2	60-140	11.0	25	
Methyl tert-butyl ether	7.77	0.50	"	9.92		78.3	60-140	1.91	11	
Toluene	30.8	0.50	"	29.7		104	60-140	5.33	25	

Surrogate: 1,2-Dichloroethane-d4	5.45		"	5.00		109	60-140			
Surrogate: Dibromofluoromethane	5.27		"	5.00		105	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.45		"	5.00		109	60-140			

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F30001 - EPA 5035										
Laboratory Control Sample Dup (3F30001-BSD2)				Prepared & Analyzed: 06/30/03						
Surrogate: Toluene-d8	5.26		ug/kg	5.00		105	60-140			
Surrogate: 4-Bromofluorobenzene	5.45		"	5.00		109	60-140			
Matrix Spike (3F30001-MS1)				Source: MMF0628-18	Prepared: 06/30/03	Analyzed: 07/01/03				
Benzene	22.0	1.7	ug/kg	33.1	ND	66.5	60-140			
Methyl tert-butyl ether	29.6	1.7	"	33.1	ND	89.4	60-140			
Chlorobenzene	24.1	1.7	"	33.1	ND	72.8	60-140			
1,1-Dichloroethene	20.8	1.7	"	33.1	ND	62.8	60-140			
Toluene	22.8	1.7	"	33.1	ND	68.9	60-140			
Trichloroethene	23.5	1.7	"	33.1	ND	71.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	6.13		"	5.00		123	60-140			
Surrogate: Dibromofluoromethane	5.55		"	5.00		111	60-140			
Surrogate: 1,2-Dichloroethane-d4	6.13		"	5.00		123	60-140			
Surrogate: Toluene-d8	5.48		"	5.00		110	60-140			
Surrogate: 4-Bromofluorobenzene	5.92		"	5.00		118	60-140			
Matrix Spike (3F30001-MS2)				Source: MMF0864-03	Prepared: 06/30/03	Analyzed: 07/01/03				
Benzene	23.4	2.2	ug/kg	28.5	ND	82.1	60-140			
Methyl tert-butyl ether	36.1	2.2	"	44.2	ND	81.7	60-140			
Toluene	149	2.2	"	132	ND	113	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.39		"	5.00		108	60-140			
Surrogate: Dibromofluoromethane	5.05		"	5.00		101	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.39		"	5.00		108	60-140			
Surrogate: Toluene-d8	5.48		"	5.00		110	60-140			
Surrogate: 4-Bromofluorobenzene	5.86		"	5.00		117	60-140			
Matrix Spike Dup (3F30001-MSD1)				Source: MMF0628-18	Prepared: 06/30/03	Analyzed: 07/01/03				
Benzene	31.7	1.7	ug/kg	33.1	ND	95.8	60-140	36.1	25	QR-02
Methyl tert-butyl ether	32.9	1.7	"	33.1	ND	99.4	60-140	10.6	25	
Chlorobenzene	32.8	1.7	"	33.1	ND	99.1	60-140	30.6	25	QR-02
1,1-Dichloroethene	33.6	1.7	"	33.1	ND	102	60-140	47.1	25	QR-02
Toluene	32.9	1.7	"	33.1	ND	99.4	60-140	36.3	25	QR-02
Trichloroethene	35.4	1.7	"	33.1	ND	107	60-140	40.4	25	QR-02

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

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Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F30001 - EPA 5035

Matrix Spike Dup (3F30001-MSD1) Source: MMF0628-18 Prepared: 06/30/03 Analyzed: 07/01/03

Surrogate: 1,2-Dichloroethane-d4	5.54		ug/kg	5.00		111	60-140			
Surrogate: Dibromofluoromethane	5.47		"	5.00		109	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.54		"	5.00		111	60-140			
Surrogate: Toluene-d8	5.41		"	5.00		108	60-140			
Surrogate: 4-Bromofluorobenzene	5.86		"	5.00		117	60-140			

Matrix Spike Dup (3F30001-MSD2) Source: MMF0864-03 Prepared: 06/30/03 Analyzed: 07/01/03

Benzene	22.6	2.1	ug/kg	27.3	ND	82.8	60-140	3.48	25	
Methyl tert-butyl ether	34.6	2.1	"	42.4	ND	81.6	60-140	4.24	25	
Toluene	139	2.1	"	127	ND	109	60-140	6.94	25	

Surrogate: 1,2-Dichloroethane-d4	5.27		"	5.00		105	60-140			
Surrogate: Dibromofluoromethane	5.44		"	5.00		109	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.27		"	5.00		105	60-140			
Surrogate: Toluene-d8	5.37		"	5.00		107	60-140			
Surrogate: 4-Bromofluorobenzene	5.69		"	5.00		114	60-140			

Batch 3G01002 - EPA 5030B MeOH

Blank (3G01002-BLK1) Prepared & Analyzed: 07/01/03

Benzene	ND	0.050	mg/kg							
Ethanol	ND	10	"							
Bromobenzene	ND	0.050	"							
tert-Butyl alcohol	ND	5.0	"							
Bromochloromethane	ND	0.050	"							
Methyl tert-butyl ether	ND	0.025	"							
Bromodichloromethane	ND	0.050	"							
Di-isopropyl ether	ND	0.025	"							
Bromoform	ND	0.050	"							
Ethyl tert-butyl ether	ND	0.025	"							
Bromomethane	ND	0.20	"							
tert-Amyl methyl ether	ND	0.025	"							
1,2-Dichloroethane	ND	0.025	"							
n-Butylbenzene	ND	0.050	"							
1,2-Dibromoethane (EDB)	ND	0.025	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G01002 - EPA 5030B MeOH

Blank (3G01002-BLK1)

Prepared & Analyzed: 07/01/03

sec-Butylbenzene	ND	0.050	mg/kg
tert-Butylbenzene	ND	0.050	"
Carbon tetrachloride	ND	0.050	"
Chlorobenzene	ND	0.050	"
Chloroethane	ND	0.20	"
Chloroform	ND	0.050	"
Chloromethane	ND	0.20	"
2-Chlorotoluene	ND	0.050	"
4-Chlorotoluene	ND	0.050	"
Dibromochloromethane	ND	0.050	"
1,2-Dibromoethane (EDB)	ND	0.050	"
Dibromomethane	ND	0.050	"
1,2-Dibromo-3-chloropropane	ND	0.10	"
1,2-Dichlorobenzene	ND	0.050	"
1,3-Dichlorobenzene	ND	0.050	"
1,4-Dichlorobenzene	ND	0.050	"
Dichlorodifluoromethane	ND	0.050	"
1,1-Dichloroethane	ND	0.050	"
1,2-Dichloroethane	ND	0.050	"
1,1-Dichloroethene	ND	0.050	"
cis-1,2-Dichloroethene	ND	0.050	"
trans-1,2-Dichloroethene	ND	0.050	"
1,2-Dichloropropane	ND	0.050	"
1,3-Dichloropropane	ND	0.050	"
2,2-Dichloropropane	ND	0.050	"
1,1-Dichloropropene	ND	0.050	"
Ethylbenzene	ND	0.050	"
Hexachlorobutadiene	ND	0.050	"
Isopropylbenzene	ND	0.050	"
p-Isopropyltoluene	ND	0.050	"
Methylene chloride	ND	0.050	"
Naphthalene	ND	0.20	"
n-Propylbenzene	ND	0.050	"
Styrene	ND	0.050	"
1,1,1,2-Tetrachloroethane	ND	0.050	"
1,1,2,2-Tetrachloroethane	ND	0.050	"

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G01002 - EPA 5030B MeOH

Blank (3G01002-BLK1)

Prepared & Analyzed: 07/01/03

Tetrachloroethene	ND	0.050	mg/kg							
Toluene	ND	0.050	"							
1,2,3-Trichlorobenzene	ND	0.050	"							
1,2,4-Trichlorobenzene	ND	0.050	"							
1,1,1-Trichloroethane	ND	0.050	"							
1,1,2-Trichloroethane	ND	0.050	"							
Trichloroethene	ND	0.050	"							
Trichlorofluoromethane	ND	0.10	"							
1,2,3-Trichloropropane	ND	0.050	"							
1,2,4-Trimethylbenzene	ND	0.050	"							
1,3,5-Trimethylbenzene	ND	0.050	"							
Vinyl chloride	ND	0.050	"							
Xylenes (total)	ND	0.050	"							

Surrogate: 1,2-Dichloroethane-d4	0.00472		"	0.00500		94.4	60-140			
Surrogate: Dibromofluoromethane	0.00473		"	0.00500		94.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00472		"	0.00500		94.4	60-140			
Surrogate: Toluene-d8	0.00525		"	0.00500		105	60-140			
Surrogate: 4-Bromofluorobenzene	0.00439		"	0.00500		87.8	60-140			

Laboratory Control Sample (3G01002-BS1)

Prepared & Analyzed: 07/01/03

Benzene	0.882	0.050	mg/kg	1.25		70.6	60-140			
Methyl tert-butyl ether	0.760	0.025	"	1.00		76.0	60-140			
Chlorobenzene	1.02	0.050	"	1.25		81.6	60-140			
1,1-Dichloroethene	0.503	0.050	"	1.25		40.2	60-140			Q-LIM
Toluene	1.03	0.050	"	1.25		82.4	60-140			
Trichloroethene	1.08	0.050	"	1.25		86.4	60-140			

Surrogate: 1,2-Dichloroethane-d4	0.00461		"	0.00500		92.2	60-140			
Surrogate: Dibromofluoromethane	0.00498		"	0.00500		99.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00461		"	0.00500		92.2	60-140			
Surrogate: Toluene-d8	0.00532		"	0.00500		106	60-140			
Surrogate: 4-Bromofluorobenzene	0.00450		"	0.00500		90.0	60-140			

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07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G01002 - EPA 5030B MeOH

Matrix Spike (3G01002-MS1)		Source: MMF0628-09		Prepared & Analyzed: 07/01/03						
Benzene	0.875	0.050	mg/kg	1.25	ND	70.0	60-140			
Methyl tert-butyl ether	0.722	0.025	"	1.00	ND	72.2	60-140			
Chlorobenzene	1.03	0.050	"	1.25	ND	82.4	60-140			
1,1-Dichloroethene	0.480	0.050	"	1.25	ND	38.4	60-140			Q-LIM
Toluene	1.03	0.050	"	1.25	0.0092	81.7	60-140			
Trichloroethene	1.06	0.050	"	1.25	ND	84.8	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00462		"	0.00500		92.4	60-140			
Surrogate: Dibromofluoromethane	0.00449		"	0.00500		89.8	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00462		"	0.00500		92.4	60-140			
Surrogate: Toluene-d8	0.00532		"	0.00500		106	60-140			
Surrogate: 4-Bromofluorobenzene	0.00442		"	0.00500		88.4	60-140			

Matrix Spike Dup (3G01002-MSD1)		Source: MMF0628-09		Prepared & Analyzed: 07/01/03						
Benzene	0.894	0.050	mg/kg	1.25	ND	71.5	60-140	2.15	25	
Methyl tert-butyl ether	0.786	0.025	"	1.00	ND	78.6	60-140	8.49	25	
Chlorobenzene	1.11	0.050	"	1.25	ND	88.8	60-140	7.48	25	
1,1-Dichloroethene	0.483	0.050	"	1.25	ND	38.6	60-140	0.623	25	Q-LIM
Toluene	1.07	0.050	"	1.25	0.0092	84.9	60-140	3.81	25	
Trichloroethene	1.08	0.050	"	1.25	ND	86.4	60-140	1.87	25	
Surrogate: 1,2-Dichloroethane-d4	0.00450		"	0.00500		90.0	60-140			
Surrogate: Dibromofluoromethane	0.00445		"	0.00500		89.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00450		"	0.00500		90.0	60-140			
Surrogate: Toluene-d8	0.00542		"	0.00500		108	60-140			
Surrogate: 4-Bromofluorobenzene	0.00440		"	0.00500		88.0	60-140			

Batch 3G01033 - EPA 5035

Blank (3G01033-BLK1)		Prepared & Analyzed: 07/01/03								
Benzene	ND	0.50	ug/kg							
Ethanol	ND	40	"							
Bromobenzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Bromochloromethane	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							

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Project Manager: Scott Robinson

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G01033 - EPA 5035										
Blank (3G01033-BLK1)				Prepared & Analyzed: 07/01/03						
Bromodichloromethane	ND	0.50	ug/kg							
Di-isopropyl ether	ND	0.50	"							
Bromoform	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Bromomethane	ND	2.0	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	2.0	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	2.0	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G01033 - EPA 5035

Blank (3G01033-BLK1)

Prepared & Analyzed: 07/01/03

Hexachlorobutadiene	ND	0.50	ug/kg							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4	5.78		"	5.00		116	60-140			
Surrogate: Dibromofluoromethane	5.28		"	5.00		106	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.78		"	5.00		116	60-140			
Surrogate: Toluene-d8	5.23		"	5.00		105	60-140			
Surrogate: 4-Bromofluorobenzene	5.42		"	5.00		108	60-140			

Sequoia Analytical - Morgan Hill

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G01033 - EPA 5035

Laboratory Control Sample (3G01033-BS1)

Prepared & Analyzed: 07/01/03

Benzene	8.95	0.50	ug/kg	10.0		89.5	60-140		
Methyl tert-butyl ether	9.03	0.50	"	10.0		90.3	60-140		
Chlorobenzene	9.95	0.50	"	10.0		99.5	60-140		
1,1-Dichloroethene	9.83	0.50	"	10.0		98.3	60-140		
Toluene	9.29	0.50	"	10.0		92.9	60-140		
Trichloroethene	9.80	0.50	"	10.0		98.0	60-140		
Surrogate: 1,2-Dichloroethane-d4	5.36		"	5.00		107	60-140		
Surrogate: Dibromofluoromethane	5.08		"	5.00		102	60-140		
Surrogate: 1,2-Dichloroethane-d4	5.36		"	5.00		107	60-140		
Surrogate: Toluene-d8	5.18		"	5.00		104	60-140		
Surrogate: 4-Bromofluorobenzene	5.45		"	5.00		109	60-140		

Laboratory Control Sample (3G01033-BS2)

Prepared & Analyzed: 07/01/03

Benzene	5.21	0.50	ug/kg	6.40		81.4	60-140		
Methyl tert-butyl ether	7.92	0.50	"	9.92		79.8	60-140		
Toluene	32.6	0.50	"	29.7		110	60-140		
Surrogate: 1,2-Dichloroethane-d4	5.18		"	5.00		104	60-140		
Surrogate: Dibromofluoromethane	5.09		"	5.00		102	60-140		
Surrogate: 1,2-Dichloroethane-d4	5.18		"	5.00		104	60-140		
Surrogate: Toluene-d8	5.06		"	5.00		101	60-140		
Surrogate: 4-Bromofluorobenzene	5.54		"	5.00		111	60-140		

Matrix Spike (3G01033-MS1)

Source: MMF0628-17

Prepared & Analyzed: 07/01/03

Benzene	30.3	1.6	ug/kg	32.2	ND	94.1	60-140		
Methyl tert-butyl ether	32.2	1.6	"	32.2	ND	100	60-140		
Chlorobenzene	32.1	1.6	"	32.2	ND	99.7	60-140		
1,1-Dichloroethene	33.3	1.6	"	32.2	ND	103	60-140		
Toluene	32.0	1.6	"	32.2	ND	99.4	60-140		
Trichloroethene	33.7	1.6	"	32.2	ND	105	60-140		
Surrogate: 1,2-Dichloroethane-d4	5.22		"	5.00		104	60-140		
Surrogate: Dibromofluoromethane	5.39		"	5.00		108	60-140		
Surrogate: 1,2-Dichloroethane-d4	5.22		"	5.00		104	60-140		

Sequoia Analytical - Morgan Hill

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Sequoia Analytical

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URS Corporation [Arco]
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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G01033 - EPA 5035

Matrix Spike (3G01033-MS1)

Source: MMF0628-17 Prepared & Analyzed: 07/01/03

Surrogate: Toluene-d8	5.18		ug/kg	5.00		104	60-140			
Surrogate: 4-Bromofluorobenzene	5.63		"	5.00		113	60-140			

Matrix Spike (3G01033-MS2)

Source: MMF0701-02 Prepared: 07/01/03 Analyzed: 07/02/03

Benzene	16.3	1.6	ug/kg	20.2	ND	80.7	60-140			
Methyl tert-butyl ether	26.1	1.6	"	31.3	ND	83.4	60-140			
Toluene	92.0	1.6	"	93.8	ND	98.1	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.49		"	5.00		110	60-140			
Surrogate: Dibromofluoromethane	5.28		"	5.00		106	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.49		"	5.00		110	60-140			
Surrogate: Toluene-d8	5.06		"	5.00		101	60-140			
Surrogate: 4-Bromofluorobenzene	5.55		"	5.00		111	60-140			

Matrix Spike Dup (3G01033-MSD1)

Source: MMF0628-17 Prepared & Analyzed: 07/01/03

Benzene	31.3	1.6	ug/kg	31.4	ND	99.7	60-140	3.25	25	
Methyl tert-butyl ether	32.8	1.6	"	31.4	ND	104	60-140	1.85	25	
Chlorobenzene	31.6	1.6	"	31.4	ND	101	60-140	1.57	25	
1,1-Dichloroethene	33.5	1.6	"	31.4	ND	107	60-140	0.599	25	
Toluene	32.4	1.6	"	31.4	ND	103	60-140	1.24	25	
Trichloroethene	36.3	1.6	"	31.4	ND	116	60-140	7.43	25	

Surrogate: 1,2-Dichloroethane-d4	5.49		"	5.00		110	60-140			
Surrogate: Dibromofluoromethane	5.34		"	5.00		107	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.49		"	5.00		110	60-140			
Surrogate: Toluene-d8	5.17		"	5.00		103	60-140			
Surrogate: 4-Bromofluorobenzene	5.74		"	5.00		115	60-140			

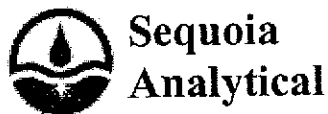
Matrix Spike Dup (3G01033-MSD2)

Source: MMF0701-02 Prepared: 07/01/03 Analyzed: 07/02/03

Benzene	15.7	1.6	ug/kg	20.2	ND	77.7	60-140	3.75	25	
Methyl tert-butyl ether	25.3	1.6	"	31.3	ND	80.8	60-140	3.11	25	
Toluene	99.5	1.6	"	93.8	ND	106	60-140	7.83	25	
Surrogate: 1,2-Dichloroethane-d4	5.34		"	5.00		107	60-140			
Surrogate: Dibromofluoromethane	5.03		"	5.00		101	60-140			

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G01033 - EPA 5035

Matrix Spike Dup (3G01033-MSD2) Source: MMF0701-02 Prepared: 07/01/03 Analyzed: 07/02/03

Surrogate: 1,2-Dichloroethane-d4	5.34		ug/kg	5.00		107	60-140			
Surrogate: Toluene-d8	5.32		"	5.00		106	60-140			
Surrogate: 4-Bromofluorobenzene	5.28		"	5.00		106	60-140			

Batch 3G02004 - EPA 5035

Blank (3G02004-BLK1) Prepared & Analyzed: 07/02/03

Benzene	ND	0.50	ug/kg
Ethanol	ND	40	"
Bromobenzene	ND	0.50	"
tert-Butyl alcohol	ND	20	"
Bromochloromethane	ND	0.50	"
Methyl tert-butyl ether	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Di-isopropyl ether	ND	0.50	"
Bromoform	ND	0.50	"
Ethyl tert-butyl ether	ND	0.50	"
Bromomethane	ND	2.0	"
tert-Amyl methyl ether	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
n-Butylbenzene	ND	0.50	"
1,2-Dibromoethane (EDB)	ND	0.50	"
sec-Butylbenzene	ND	0.50	"
tert-Butylbenzene	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	2.0	"
Chloroform	ND	0.50	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	0.50	"
4-Chlorotoluene	ND	0.50	"
Dibromochloromethane	ND	0.50	"
1,2-Dibromoethane (EDB)	ND	0.50	"
Dibromomethane	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	2.0	"
1,2-Dichlorobenzene	ND	0.50	"

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
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07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G02004 - EPA 5035										
Blank (3G02004-BLK1)				Prepared & Analyzed: 07/02/03						
1,3-Dichlorobenzene	ND	0.50	ug/kg							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							

Sequoia Analytical - Morgan Hill

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MMF0628
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G02004 - EPA 5035

Blank (3G02004-BLK1)

Prepared & Analyzed: 07/02/03

Surrogate: 1,2-Dichloroethane-d4	5.00		ug/kg	5.00		100	60-140			
Surrogate: Dibromofluoromethane	4.45		"	5.00		89.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.00		"	5.00		100	60-140			
Surrogate: Toluene-d8	4.95		"	5.00		99.0	60-140			
Surrogate: 4-Bromofluorobenzene	5.27		"	5.00		105	60-140			

Laboratory Control Sample (3G02004-BS1)

Prepared & Analyzed: 07/02/03

Benzene	8.91	0.50	ug/kg	10.0		89.1	60-140			
Methyl tert-butyl ether	9.22	0.50	"	10.0		92.2	60-140			
Chlorobenzene	10.1	0.50	"	10.0		101	60-140			
1,1-Dichloroethene	9.65	0.50	"	10.0		96.5	60-140			
Toluene	9.78	0.50	"	10.0		97.8	60-140			
Trichloroethene	9.77	0.50	"	10.0		97.7	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.97		"	5.00		99.4	60-140			
Surrogate: Dibromofluoromethane	5.05		"	5.00		101	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.97		"	5.00		99.4	60-140			
Surrogate: Toluene-d8	5.12		"	5.00		102	60-140			
Surrogate: 4-Bromofluorobenzene	5.53		"	5.00		111	60-140			

Laboratory Control Sample (3G02004-BS2)

Prepared & Analyzed: 07/02/03

Benzene	5.13	0.50	ug/kg	6.40		80.2	60-140			
Methyl tert-butyl ether	7.87	0.50	"	9.92		79.3	60-140			
Toluene	30.9	0.50	"	29.7		104	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.88		"	5.00		97.6	60-140			
Surrogate: Dibromofluoromethane	4.48		"	5.00		89.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.88		"	5.00		97.6	60-140			
Surrogate: Toluene-d8	4.59		"	5.00		91.8	60-140			
Surrogate: 4-Bromofluorobenzene	4.85		"	5.00		97.0	60-140			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G02004 - EPA 5035

Laboratory Control Sample Dup (3G02004-BSD1)

Prepared & Analyzed: 07/02/03

Benzene	8.90	0.50	ug/kg	10.0		89.0	60-140	0.112	25	
Methyl tert-butyl ether	9.21	0.50	"	10.0		92.1	60-140	0.109	11	
Chlorobenzene	9.82	0.50	"	10.0		98.2	60-140	2.81	25	
1,1-Dichloroethene	9.51	0.50	"	10.0		95.1	60-140	1.46	25	
Toluene	9.73	0.50	"	10.0		97.3	60-140	0.513	25	
Trichloroethene	10.3	0.50	"	10.0		103	60-140	5.28	25	

Surrogate: 1,2-Dichloroethane-d4	4.91		"	5.00		98.2	60-140			
Surrogate: Dibromofluoromethane	4.49		"	5.00		89.8	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.91		"	5.00		98.2	60-140			
Surrogate: Toluene-d8	4.53		"	5.00		90.6	60-140			
Surrogate: 4-Bromofluorobenzene	4.93		"	5.00		98.6	60-140			

Matrix Spike (3G02004-MS1)

Source: MMG0034-08

Prepared & Analyzed: 07/02/03

Benzene	17.2	1.8	ug/kg	23.6	ND	72.9	60-140			
Methyl tert-butyl ether	38.5	1.8	"	36.5	4.4	93.4	60-140			
Toluene	110	1.8	"	109	ND	101	60-140			

Surrogate: 1,2-Dichloroethane-d4	5.05		"	5.00		101	60-140			
Surrogate: Dibromofluoromethane	4.63		"	5.00		92.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.05		"	5.00		101	60-140			
Surrogate: Toluene-d8	5.03		"	5.00		101	60-140			
Surrogate: 4-Bromofluorobenzene	5.29		"	5.00		106	60-140			

Matrix Spike Dup (3G02004-MSD1)

Source: MMG0034-08

Prepared & Analyzed: 07/02/03

Benzene	15.0	1.8	ug/kg	23.7	ND	63.3	60-140	13.7	25	
Methyl tert-butyl ether	38.0	1.8	"	36.7	4.4	91.6	60-140	1.31	25	
Toluene	78.9	1.8	"	110	ND	71.7	60-140	32.9	25	QR-02

Surrogate: 1,2-Dichloroethane-d4	5.06		"	5.00		101	60-140			
Surrogate: Dibromofluoromethane	4.97		"	5.00		99.4	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.86		"	5.00		97.2	60-140			
Surrogate: Toluene-d8	4.72		"	5.00		94.4	60-140			
Surrogate: 4-Bromofluorobenzene	5.12		"	5.00		102	60-140			

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3G03012 - EPA 5035

Blank (3G03012-BLK1)

Prepared & Analyzed: 07/03/03

Benzene	ND	0.50	ug/kg
Ethanol	ND	40	"
Bromobenzene	ND	0.50	"
tert-Butyl alcohol	ND	20	"
Bromochloromethane	ND	0.50	"
Methyl tert-butyl ether	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Di-isopropyl ether	ND	0.50	"
Bromoform	ND	0.50	"
Ethyl tert-butyl ether	ND	0.50	"
Bromomethane	ND	2.0	"
tert-Amyl methyl ether	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
n-Butylbenzene	ND	0.50	"
1,2-Dibromoethane (EDB)	ND	0.50	"
sec-Butylbenzene	ND	0.50	"
tert-Butylbenzene	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	2.0	"
Chloroform	ND	0.50	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	0.50	"
4-Chlorotoluene	ND	0.50	"
Dibromochloromethane	ND	0.50	"
1,2-Dibromoethane (EDB)	ND	0.50	"
Dibromomethane	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	2.0	"
1,2-Dichlorobenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	0.50	"
cis-1,2-Dichloroethene	ND	0.50	"

Sequoia Analytical - Morgan Hill

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Sequoia Analytical

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3G03012 - EPA 5035

Blank (3G03012-BLK1)

Prepared & Analyzed: 07/03/03

trans-1,2-Dichloroethene	ND	0.50	ug/kg
1,2-Dichloropropane	ND	0.50	"
1,3-Dichloropropane	ND	0.50	"
2,2-Dichloropropane	ND	0.50	"
1,1-Dichloropropene	ND	0.50	"
Ethylbenzene	ND	0.50	"
Hexachlorobutadiene	ND	0.50	"
Isopropylbenzene	ND	0.50	"
p-Isopropyltoluene	ND	0.50	"
Methylene chloride	ND	2.0	"
Naphthalene	ND	0.50	"
n-Propylbenzene	ND	0.50	"
Styrene	ND	0.50	"
1,1,1,2-Tetrachloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
Tetrachloroethene	ND	0.50	"
Toluene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,1,1-Trichloroethane	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
Trichloroethene	ND	0.50	"
Trichlorofluoromethane	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
Vinyl chloride	ND	0.50	"
Xylenes (total)	ND	0.50	"

Surrogate: 1,2-Dichloroethane-d4	5.04	"	5.00	101	60-140
Surrogate: Dibromofluoromethane	4.68	"	5.00	93.6	60-140
Surrogate: 1,2-Dichloroethane-d4	5.04	"	5.00	101	60-140
Surrogate: Toluene-d8	4.49	"	5.00	89.8	60-140
Surrogate: 4-Bromofluorobenzene	4.84	"	5.00	96.8	60-140

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 3G03012 - EPA 5035

Laboratory Control Sample (3G03012-BS1)

Prepared & Analyzed: 07/03/03

Benzene	9.48	0.50	ug/kg	10.0		94.8	60-140			
Methyl tert-butyl ether	9.57	0.50	"	10.0		95.7	60-140			
Chlorobenzene	9.80	0.50	"	10.0		98.0	60-140			
1,1-Dichloroethene	9.92	0.50	"	10.0		99.2	60-140			
Toluene	9.67	0.50	"	10.0		96.7	60-140			
Trichloroethene	10.5	0.50	"	10.0		105	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.02		"	5.00		100	60-140			
Surrogate: Dibromofluoromethane	4.93		"	5.00		98.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.02		"	5.00		100	60-140			
Surrogate: Toluene-d8	4.59		"	5.00		91.8	60-140			
Surrogate: 4-Bromofluorobenzene	4.98		"	5.00		99.6	60-140			

Laboratory Control Sample Dup (3G03012-BSD1)

Prepared & Analyzed: 07/03/03

Benzene	9.83	0.50	ug/kg	10.0		98.3	60-140	3.63	25	
Methyl tert-butyl ether	9.95	0.50	"	10.0		99.5	60-140	3.89	11	
Chlorobenzene	10.8	0.50	"	10.0		108	60-140	9.71	25	
1,1-Dichloroethene	10.5	0.50	"	10.0		105	60-140	5.68	25	
Toluene	10.5	0.50	"	10.0		105	60-140	8.23	25	
Trichloroethene	11.0	0.50	"	10.0		110	60-140	4.65	25	
Surrogate: 1,2-Dichloroethane-d4	5.08		"	5.00		102	60-140			
Surrogate: Dibromofluoromethane	4.76		"	5.00		95.2	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.08		"	5.00		102	60-140			
Surrogate: Toluene-d8	4.65		"	5.00		93.0	60-140			
Surrogate: 4-Bromofluorobenzene	5.03		"	5.00		101	60-140			

Sequoia Analytical - Morgan Hill

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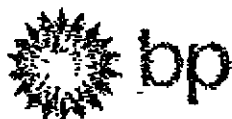
URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0628
Reported:
07/09/03 10:47

Notes and Definitions

- Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.
- QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Chain of Custody Record

Page 1 of 3

Project Name ARCO Station #601-712 Lowelling Boulevard, San Leandro, CA
Business Unit BP West Coast Products LLC
BP Laboratory Contract Number: 4 0 0 6 2 1 1 2 4

DATE: 06/18/03

TAT 10 days REQUESTED DUE DATE: 06/28/03

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

Send To:				BP/GEM Facility No.: Station #601				Consultant: URS Oakland											
Lab Name: Sequoia Analytical				BP/GEM Facility Address: 712 Lowelling Boulevard, San Leandro, CA				Address: 500 12th Street, #200											
Lab Address: 885 Jarvis Drive				Site ID No. Station #601				Oakland, CA 94607											
Morgan Hill, CA				California Global ID #: -----				e-mail EDD: Henry_Barrientos@URSCorp.com											
Lab PM: Latonya Pell				BP/GEM PM Contact: BP Global Alliance; Attn: Accounts Payable				Consultant Project No.:											
Tel/Fax: 409-782-0154/408-782-6308				Address: 4 Center Point Drive, La Palma, CA				Consultant Tel/Fax: 408-297-9505/297-8982											
Report Type & QG Level: Normal				Tel/Fax: 714-870-5052/714-670-6383				Consultant PM: Scott Robinson/Henry Barrientos											
BP/GEM Account No.:								Invoice to: BP West Coast Products											
Lab Bottle Order No.:								BP/GEM Work Release No.:											
				Matrix				Preservatives		Requested Analysis		Sample Point Lat/Long and Comments							
Item No.	Field Point ID	Sample ID	Time	Solid/Liquid	Sediments	Air	Laboratory No.	No. of containers	Unpreserved	H ₂ SO ₄	HNO ₃			HCl	NaOH	EPA-8260B-xxx	pH	total metals, 990 instructions	Phenols
1	✓ D-2	16:31	X				61							X					
2	✓ D-1	16:52	X				62							X					
3	✓ PL-1	17:05	X				03							X					
4	✓ PL-2	17:20	X				04							X					
5	✓ D-3	17:25	X				05							X					
6	✓ D-4	17:28	X				06							X					
7	✓ PL-3	17:34	X				07							X					
8	✓ PL-4	17:40	X				08							X					
9														X					
10														X					
Sampler's Name: A-DK				Relinquished By / Attribution				Date	Time	Accepted By / Attribution				Date	Time				
Sampler's Company: URS Oakland				[Signature]				06/19/03	11:00	[Signature]				06/19/03	11:30				
Shipment Date: 06/19/03								06/19/03	18:00					06/19/03	18:55				
Shipment Method: Courier																			
Shipment Tracking No.:																			
Special Instructions: CAP 2002																			
Custody Seals in Place Yes No <input checked="" type="checkbox"/>				Temperature Blank Yes No <input checked="" type="checkbox"/>				Cooler Temperature on Receipt 7 °C				Trip Blank Yes No <input checked="" type="checkbox"/>							

BP CQC Rev. 1 2/97



- Project Name ARCO Station #601-712 Lewelling Boulevard, San Leandro, CA
Business Unit Bo West Coast Products LLC

BP Laboratory Contract Number: 4 0 0 6 2 1 1 2 4 -

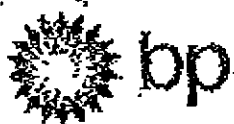
TAT 10 days REQUESTED DUH DATE: 06/28/03

1200 301 7

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

Sand To:				BP/GEM Facility No.: Station #801						Consultant: URS Oakland											
Lab Name: Sequoia Analytical				BP/GEM Facility Address: 712 Lewelling Boulevard, San Leandro, CA						Address: 500 12th Street, #200											
Lab Address: 885 Jarvis Drive				Site ID No. Station #801						Oakland, CA 94607											
Morgan Hill, CA				California Global ID #: _____						e-mail EDD: Henry_Barrientos@URS Corp.com											
				BP/GEM PM Contact: BP Global Alliance; Attn.: Accounts Payable						Consultant Project No.: _____											
Lab PM: Lalonya Pelt				Address: 4 Center Point Drive, La Palma, CA						Consultant Tele/Fax: 408-297-8585/297-6362											
Tele/Fax: 408-782-0154/MOB-782-6309				Tele/Fax: 714-670-8052/714-670-5359						Consultant PM: Scott Robinson/Lalonya Barrientos											
Report Type & QC Level: Normal										Invoice to: BP West Coast Products											
BP/GEM Account No.: _____										BP/GEM Work Release No: _____											
Lab Bottle Order No: _____																					
Item No.	Field Point ID	Sample ID	Time	Matrix				Laboratory No.	No. of containers	Preservatives					Requested Analysis					Sample Point Label Long and Comments	
				Solid	Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	EPA-8260B-Proxy	pH	Total Metals, see instructions	Petroleum	Cyanide		
1		PL-6	18:20	X				19						X							
2		✓ PL-7	18:26	X				19 b7						X							
3		✓ D-5	18:38	X				7c 10						X							
4		✓ D-6	18:42	X				10 11						X							
6		✓ PL-9	18:47	X				13 12						X							
7				X										X							
8				X										X							
9				X										X							
10				X										X							
Sampler's Name: ADK				Relinquished By / Affiliation				Date	Time	Accepted By / Affiliation				Date	Time						
Sampler's Company: URS Oakland				[Signature]				08/19/03		[Signature]				6/19	18:45						
Shipment Date: 08/19/03																					
Shipment Method: Courier																					
Shipment Tracking No:																					
Special Instructions: CAP 2002																					
Custody Seals In Place Yes No <input checked="" type="checkbox"/> Temperature Blank Yes No <input checked="" type="checkbox"/> Cooler Temperature on Receipt <input checked="" type="checkbox"/> 4 °F/C Trip Blank Yes No <input checked="" type="checkbox"/>																					

AF COC Rec. 1 24502



Chain of Custody Record

Project Name ARCO Station #601-712 Lewelling Boulevard, San Leandro, CA
 Business Unit Bp West Coast Products LLC
 BP Laboratory Contract Number: 4 0 0 5 2 1 1 2 4

DATE: 06/19/03

TAT Today's REQUESTED DUE DATE: 06/29/03

Page 3 of 3

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

Send To:				BP/GEM Facility No.: Station #601				Consultant: URS Oakland															
Lab Name: Sequoia Analytical				BP/GEM Facility Address: 712 Lewelling Boulevard, San Leandro, CA				Address: 500 12th Street, #200															
Lab Address: 885 Jarvis Drive Menlo Park, CA				Site ID No. Station #601				Oakland, CA 94607															
Lab PM: Latonya Pelt				California Global ID #:				e-mail EDD: Henry.Barrientos@URSCorp.com															
Tel/Fax: 408-782-8154/408-782-8308				BP/GEM PM Contact: BP Global Alliance; Attn: Accounts Payable				Consultant Project No.:															
Report Type & QC Level: Normal				Address: 4 Center Point Drive, La Palma, CA				Consultant Tele/Fax: 408-297-8585/297-6902															
BP/GEM Account No.:				Tel/Fax: 714-670-5052/714-070-5353				Consultant PM: Scott Robinson/Henry Barrientos															
Lab Bottle Order No.:				Invoice to: BP West Coast Products				BP/GEM Work Release No.:															
Item No.	Field Point ID	Sample ID	Time	Matrix				Laboratory No.	No. of containers	Preservatives					Requested Analysis					Sample Point Lat/Long and Comments			
				Soils/Solids	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	EPA-8260B-roxy	pH	total metals, see instructions	Phenols	Cyanide				
1		PL-10	8:25	X				13						X									
2		D-7	8:40	X				14						X									
3		D-8	8:45	X				15						X									
4		PL-11	8:53	X				16						X									
5		PL-13	9:10	X				17						X									
6		PL-14	9:15	X				18						X									
7		PL-12	9:30	X				19						X									
8		PL-8	9:45	X				20						X									
9																							
10																							
Sampler's Name: A D K				Relinquished By: J. A. H. H. H. H.				Date: 06/19/03				Accepted By: J. A. H. H. H. H.				Date: 6/19				Time: 18:45			
Sampler's Company: URS Oakland																							
Shipment Date:																							
Shipment Method: Courier																							
Shipment Tracking No.:																							
Special Instructions: CAP 2002																							
Custody Seals In Place Yes No <input checked="" type="checkbox"/> Temperature Blank Yes No <input checked="" type="checkbox"/> Cooler Temperature on Receipt 4°C Trip Blank Yes No <input checked="" type="checkbox"/>																							

BP COC Rev. 1 2/02

JUN 18 2003 1:38PM URS

NO. 102 P. 1

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME:
REC. BY (PRINT)
WORKORDER:

BP
MMF0628

DATE REC'D AT LAB:
TIME REC'D AT LAB:
DATE LOGGED IN:

6/19/03
18:45
6-22-03

Drinking water for
regulatory purposes:
Wastewater for
regulatory purposes:

YES/NO
YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <u>Absent</u> Intact / Broken*			D-2	(1) metal can		G	6/18/03	
2. Chain-of-Custody <u>Present</u> / Absent*			PL-1					
3. Traffic Reports or Packing List: Present / <u>Absent</u>			2					
4. Airbill: Airbill / Sticker Present / <u>Absent</u>			D-3					
5. Airbill #:			PL-3					
6. Sample Labels: <u>Present</u> / Absent			7					
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody			D-5					
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*			6					
9. Does information on custody reports, traffic reports and sample labels agree? <u>Yes</u> / No*			PL-9					
10. Sample received within hold time: <u>Yes</u> / No*			10					
11. Proper Preservatives used: <u>Yes</u> / No*			D-8					
12. Temp Rec. at Lab: 4°C Is temp 4 ±1-2°C? <u>Yes</u> / No**			PL-11					
(Acceptance range for samples requiring thermal pres.)								
**Exception (if any): Metals / DFF (Direct From Field)								
or Problem COC								

*If CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.



**Sequoia
Analytical**

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20 June, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #601, San Leandro, CA
Sequoia Work Order: MMF0423

Enclosed are the results of analyses for samples received by the laboratory on 06/17/03 12:24. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate #1210



**Sequoia
Analytical**

885 Jarvis Dr
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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-1	MMF0423-01	Water	06/17/03 09:20	06/17/03 12:24
TW-2	MMF0423-02	Water	06/17/03 09:20	06/17/03 12:24
TW-3	MMF0423-03	Water	06/17/03 09:20	06/17/03 12:24
TW-4	MMF0423-04	Water	06/17/03 09:20	06/17/03 12:24

There were no custody seals that were received with this project.



Sequoia Analytical

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

BTEX by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-1 (MMF0423-01) Water Sampled: 06/17/03 09:20 Received: 06/17/03 12:24									
Benzene	ND	5.0	ug/l	10	3F17009	06/17/03	06/17/03	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	78-129	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Sequoia Analytical

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FAX (408) 782-6308
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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

Total Metals by EPA 200 Series Methods Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-2 (MMF0423-02) Water Sampled: 06/17/03 09:20 Received: 06/17/03 12:24									
Silver	ND	0.020	mg/l	1	3F17022	06/17/03	06/18/03	EPA 200.7	
Arsenic	ND	0.10	"	"	"	"	"	"	
Cadmium	ND	0.010	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.010	"	"	"	"	"	"	
Nickel	ND	0.050	"	"	"	"	"	"	
Lead	ND	0.10	"	"	"	"	"	"	
Selenium	ND	0.10	"	"	"	"	"	"	
Zinc	ND	0.050	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-2 (MMF0423-02) Water Sampled: 06/17/03 09:20 Received: 06/17/03 12:24									
Mercury	ND	0.20	ug/l	1	3F18009	06/18/03	06/18/03	EPA 7470A	

Sequoia Analytical - Morgan Hill

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MMF0423
Reported:
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Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-1 (MMF0423-01) Water Sampled: 06/17/03 09:20 Received: 06/17/03 12:24									
Ethanol	ND	1000	ug/l	10	3F17009	06/17/03	06/17/03	EPA 8260B	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Methyl tert-butyl ether	290	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	78-129		"	"	"	"	
Benzene	ND	5.0	"	10	3F18036	06/18/03	06/18/03	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-1 (MMF0423-01) Water Sampled: 06/17/03 09:20 Received: 06/17/03 12:24									
trans-1,2-Dichloroethene	ND	5.0	ug/l	10	3F18036	06/18/03	06/18/03	EPA 8260B	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	50	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %		73-130	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		116 %		78-129	"	"	"	"	
Surrogate: Toluene-d8		106 %		81-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %		71-117	"	"	"	"	

Sequoia Analytical - Morgan Hill

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06/20/03 11:37

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-4 (MMF0423-04) Water Sampled: 06/17/03 09:20 Received: 06/17/03 12:24									
pH	6.96	2.00	pH Units	1	3F18021	06/17/03	06/17/03	EPA 150.1	
Phenol	ND	0.050	mg/l	"	3F18037	06/18/03	06/18/03	EPA 420.1	

Sequoia Analytical - Morgan Hill

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Reported:
06/20/03 11:37

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-3 (MMF0423-03) Water Sampled: 06/17/03 09:20 Received: 06/17/03 12:24									
Cyanide (total)	ND	0.0050	mg/l	1	3060455	06/19/03	06/19/03	EPA 335.2	

Sequoia Analytical - Morgan Hill

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Reported:
06/20/03 11:37

BTEX by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3F17009 - EPA 5030B P/T									
Blank (3F17009-BLK1) Prepared & Analyzed: 06/17/03									
Benzene	ND	0.50	ug/l						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
Xylenes (total)	ND	0.50	"						
Surrogate: 1,2-Dichloroethane-d4	4.63		"	5.00		92.6	78-129		
Laboratory Control Sample (3F17009-BS1) Prepared & Analyzed: 06/17/03									
Benzene	9.73	0.50	ug/l	10.0		97.3	78-124		
Toluene	9.87	0.50	"	10.0		98.7	78-129		
Surrogate: 1,2-Dichloroethane-d4	4.70		"	5.00		94.0	78-129		
Laboratory Control Sample (3F17009-BS2) Prepared & Analyzed: 06/17/03									
Benzene	5.52	0.50	ug/l	6.40		86.2	78-124		
Toluene	32.4	0.50	"	29.7		109	78-129		
Surrogate: 1,2-Dichloroethane-d4	4.70		"	5.00		94.0	78-129		
Laboratory Control Sample Dup (3F17009-BSD1) Prepared: 06/17/03 Analyzed: 06/18/03									
Benzene	9.77	0.50	ug/l	10.0		97.7	78-124	0.410	12
Toluene	9.61	0.50	"	10.0		96.1	78-129	2.67	10
Surrogate: 1,2-Dichloroethane-d4	4.89		"	5.00		97.8	78-129		
Laboratory Control Sample Dup (3F17009-BSD2) Prepared: 06/17/03 Analyzed: 06/18/03									
Benzene	5.76	0.50	ug/l	6.40		90.0	78-124	4.26	12
Toluene	32.6	0.50	"	29.7		110	78-129	0.615	10
Surrogate: 1,2-Dichloroethane-d4	4.75		"	5.00		95.0	78-129		
Matrix Spike (3F17009-MS1) Source: MMF0172-01 Prepared: 06/17/03 Analyzed: 06/18/03									
Benzene	274	25	ug/l	320	6.0	83.8	78-124		
Toluene	1550	25	"	1480	3.5	104	78-129		

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06/20/03 11:37

BTEX by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F17009 - EPA 5030B P/T										
Matrix Spike (3F17009-MS1)										
Source: MMF0172-01 Prepared: 06/17/03 Analyzed: 06/18/03										
Surrogate: 1,2-Dichloroethane-d4	4.79		ug/l	5.00		95.8	78-129			
Matrix Spike Dup (3F17009-MSD1)										
Source: MMF0172-01 Prepared: 06/17/03 Analyzed: 06/18/03										
Benzene	290	25	ug/l	320	6.0	88.8	78-124	5.67	12	
Toluene	1640	25	"	1480	3.5	111	78-129	5.64	10	
Surrogate: 1,2-Dichloroethane-d4	4.85		"	5.00		97.0	78-129			

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Total Metals by EPA 200 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F17022 - EPA 3005A

Blank (3F17022-BLK1)

Prepared: 06/17/03 Analyzed: 06/18/03

Arsenic	ND	0.10	mg/l
Cadmium	ND	0.010	"
Chromium	ND	0.010	"
Copper	ND	0.010	"
Lead	ND	0.10	"
Nickel	ND	0.050	"
Selenium	ND	0.10	"
Silver	ND	0.020	"
Zinc	ND	0.050	"

Laboratory Control Sample (3F17022-BS1)

Prepared: 06/17/03 Analyzed: 06/18/03

Arsenic	1.03	0.10	mg/l	1.00	103	84-127
Cadmium	0.993	0.010	"	1.00	99.3	89-119
Chromium	1.01	0.010	"	1.00	101	91-118
Copper	1.00	0.010	"	1.00	100	88-117
Lead	1.01	0.10	"	1.00	101	88-121
Nickel	1.02	0.050	"	1.00	102	91-119
Selenium	0.954	0.10	"	1.00	95.4	87-124
Silver	0.997	0.020	"	1.00	99.7	90-115
Zinc	1.01	0.050	"	1.00	101	91-120

Matrix Spike (3F17022-MS1)

Source: MMF0423-02

Prepared: 06/17/03 Analyzed: 06/18/03

Arsenic	1.12	0.10	mg/l	1.00	ND	112	70-130
Cadmium	1.04	0.010	"	1.00	ND	104	70-130
Chromium	1.07	0.010	"	1.00	ND	107	70-130
Copper	1.06	0.010	"	1.00	ND	106	70-130
Lead	1.07	0.10	"	1.00	ND	107	70-130
Nickel	1.07	0.050	"	1.00	ND	107	70-130
Selenium	0.996	0.10	"	1.00	ND	99.6	70-130
Silver	1.06	0.020	"	1.00	ND	106	70-130
Zinc	1.07	0.050	"	1.00	0.0083	106	70-130

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MMF0423
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Total Metals by EPA 200 Series Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F17022 - EPA 3005A										
Matrix Spike Dup (3F17022-MSD1)		Source: MMF0423-02		Prepared: 06/17/03		Analyzed: 06/18/03				
Arsenic	1.04	0.10	mg/l	1.00	ND	104	70-130	7.41	20	
Cadmium	0.980	0.010	"	1.00	ND	98.0	70-130	5.94	20	
Chromium	1.00	0.010	"	1.00	ND	100	70-130	6.76	20	
Copper	0.991	0.010	"	1.00	ND	99.1	70-130	6.73	20	
Lead	0.991	0.10	"	1.00	ND	99.1	70-130	7.67	20	
Nickel	1.00	0.050	"	1.00	ND	100	70-130	6.76	20	
Selenium	0.923	0.10	"	1.00	ND	92.3	70-130	7.61	20	
Silver	0.992	0.020	"	1.00	ND	99.2	70-130	6.63	20	
Zinc	1.00	0.050	"	1.00	0.0083	99.2	70-130	6.76	20	

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Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3F18009 - EPA 7470A									
Blank (3F18009-BLK1)									
				Prepared & Analyzed: 06/18/03					
Mercury	ND	0.20	ug/l						
Laboratory Control Sample (3F18009-BS1)									
				Prepared & Analyzed: 06/18/03					
Mercury	8.43	0.20	ug/l	8.00		105	88-110		
Matrix Spike (3F18009-MS1)									
				Source: MMF0423-02		Prepared & Analyzed: 06/18/03			Q-LIM
Mercury	8.81	0.20	ug/l	8.00	ND	110	88-110		
Matrix Spike Dup (3F18009-MSD1)									
				Source: MMF0423-02		Prepared & Analyzed: 06/18/03			
Mercury	8.53	0.20	ug/l	8.00	ND	107	88-110	3.23	10

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Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
Batch 3F17009 - EPA 5030B P/T									
Blank (3F17009-BLK1)				Prepared & Analyzed: 06/17/03					
Ethanol	ND	100	ug/l						
tert-Butyl alcohol	ND	20	"						
Methyl tert-butyl ether	ND	0.50	"						
Di-isopropyl ether	ND	0.50	"						
Ethyl tert-butyl ether	ND	0.50	"						
tert-Amyl methyl ether	ND	0.50	"						
1,2-Dichloroethane	ND	0.50	"						
1,2-Dibromoethane (EDB)	ND	0.50	"						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.63		"	5.00		92.6 78-129			
Laboratory Control Sample (3F17009-BS1)				Prepared & Analyzed: 06/17/03					
Methyl tert-butyl ether	8.30	0.50	ug/l	10.0		83.0 63-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.70		"	5.00		94.0 78-129			
Laboratory Control Sample (3F17009-BS2)				Prepared & Analyzed: 06/17/03					
Methyl tert-butyl ether	8.25	0.50	ug/l	9.92		83.2 63-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.70		"	5.00		94.0 78-129			
Laboratory Control Sample Dup (3F17009-BSD1)				Prepared: 06/17/03 Analyzed: 06/18/03					
Methyl tert-butyl ether	8.82	0.50	ug/l	10.0		88.2 63-137	6.07	13	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.89		"	5.00		97.8 78-129			
Laboratory Control Sample Dup (3F17009-BSD2)				Prepared: 06/17/03 Analyzed: 06/18/03					
Methyl tert-butyl ether	8.02	0.50	ug/l	9.92		80.8 63-137	2.83	13	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.75		"	5.00		95.0 78-129			
Matrix Spike (3F17009-MS1)				Source: MMF0172-01 Prepared: 06/17/03 Analyzed: 06/18/03					
Methyl tert-butyl ether	1230	25	ug/l	496	840	78.6 63-137			

Sequoia Analytical - Morgan Hill

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Sequoia Analytical

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch 3F17009 - EPA 5030B P/T

Matrix Spike (3F17009-MS1) Source: MMF0172-01 Prepared: 06/17/03 Analyzed: 06/18/03

Surrogate: 1,2-Dichloroethane-d4 4.79 ug/l 5.00 95.8 78-129

Matrix Spike Dup (3F17009-MSD1) Source: MMF0172-01 Prepared: 06/17/03 Analyzed: 06/18/03

Methyl tert-butyl ether 1240 25 ug/l 496 840 80.6 63-137 0.810 13

Surrogate: 1,2-Dichloroethane-d4 4.85 " 5.00 97.0 78-129

Batch 3F18036 - EPA 5030B P/T

Blank (3F18036-BLK1) Prepared & Analyzed: 06/18/03

Benzene	ND	0.50	ug/l
Bromobenzene	ND	0.50	"
Bromochloromethane	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Bromoform	ND	0.50	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	0.50	"
sec-Butylbenzene	ND	0.50	"
tert-Butylbenzene	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	0.50	"
Chloroform	ND	0.50	"
Chloromethane	ND	0.50	"
2-Chlorotoluene	ND	0.50	"
4-Chlorotoluene	ND	0.50	"
Dibromochloromethane	ND	0.50	"
1,2-Dibromoethane (EDB)	ND	0.50	"
Dibromomethane	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dichlorobenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F18036 - EPA 5030B P/T

Blank (3F18036-BLK1)

Prepared & Analyzed: 06/18/03

1,2-Dichloroethane	ND	0.50	ug/l
1,1-Dichloroethene	ND	0.50	"
cis-1,2-Dichloroethene	ND	0.50	"
trans-1,2-Dichloroethene	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3-Dichloropropane	ND	0.50	"
2,2-Dichloropropane	ND	2.0	"
1,1-Dichloropropene	ND	0.50	"
Ethylbenzene	ND	0.50	"
Hexachlorobutadiene	ND	2.0	"
Isopropylbenzene	ND	0.50	"
p-Isopropyltoluene	ND	0.50	"
Methylene chloride	ND	0.50	"
Naphthalene	ND	5.0	"
n-Propylbenzene	ND	0.50	"
Styrene	ND	0.50	"
1,1,1,2-Tetrachloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
Tetrachloroethene	ND	0.50	"
Toluene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,1,1-Trichloroethane	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
Trichloroethene	ND	0.50	"
Trichlorofluoromethane	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
Vinyl chloride	ND	0.50	"
Xylenes (total)	ND	0.50	"

Surrogate: Dibromofluoromethane	5.34	"	5.00	107	73-130
Surrogate: 1,2-Dichloroethane-d4	5.40	"	5.00	108	78-129
Surrogate: Toluene-d8	5.19	"	5.00	104	81-116
Surrogate: 4-Bromofluorobenzene	4.63	"	5.00	92.6	71-117

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F18036 - EPA 5030B P/T

Blank (3F18036-BLK1)

Prepared & Analyzed: 06/18/03

Sequoia Analytical - Morgan Hill

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Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3F18021 - General Preparation									
Duplicate (3F18021-DUP1) Source: MMF0423-04 Prepared & Analyzed: 06/17/03									
pH	6.96	2.00	pH Units		6.96		0.00	20	
Batch 3F18037 - General Preparation									
Blank (3F18037-BLK1) Prepared & Analyzed: 06/18/03									
Phenol	ND	0.050	mg/l						
Laboratory Control Sample (3F18037-BS1) Prepared & Analyzed: 06/18/03									
Phenol	0.488	0.050	mg/l	0.500		97.6	84-117		
Matrix Spike (3F18037-MS1) Source: MMF0423-04 Prepared & Analyzed: 06/18/03									
Phenol	0.491	0.050	mg/l	0.500	ND	98.2	84-117		
Matrix Spike Dup (3F18037-MSD1) Source: MMF0423-04 Prepared & Analyzed: 06/18/03									
Phenol	0.504	0.050	mg/l	0.500	ND	101	84-117	2.61	7

Sequoia Analytical - Morgan Hill

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Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
Batch 3060455 - General Preparation										
Blank (3060455-BLK1)					Prepared & Analyzed: 06/19/03					
Cyanide (total)	0.0119	0.0050	mg/l							
Blank (3060455-BLK2)					Prepared & Analyzed: 06/19/03					
Cyanide (total)	ND	0.0050	mg/l							
Laboratory Control Sample (3060455-BS1)					Prepared & Analyzed: 06/19/03					
Cyanide (total)	0.170	0.0050	mg/l	0.200		85	80-120			
Laboratory Control Sample (3060455-BS2)					Prepared & Analyzed: 06/19/03					
Cyanide (total)	0.175	0.0050	mg/l	0.200		88	80-120			
Matrix Spike (3060455-MS1)					Source: P306111-01	Prepared & Analyzed: 06/19/03				
Cyanide (total)	0.195	0.0050	mg/l	0.204	ND	96	75-125			
Matrix Spike Dup (3060455-MSD1)					Source: P306111-01	Prepared & Analyzed: 06/19/03				
Cyanide (total)	0.196	0.0050	mg/l	0.204	ND	96	75-125	0.5	20	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Scott Robinson

MMF0423
Reported:
06/20/03 11:37

Notes and Definitions

Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.

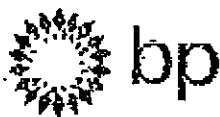
DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Chain of Custody Record

Project Name: ARCO Station 1601-712 Lewelling Boulevard, San Leandro, CA
Business Unit: Bp West Coast Products LLC

BP Laboratory Contract Number: 1 0 0 6 2 1 1 2 4

Date: 6/17/03

TAT 24hr

Requested Due Date:

07/15/03

Page 1 of 1

On-site Time: 0800	Temp: 55°F
Off-site Time: 1000	Temp: 57°F
Sky Conditions: Cloudy	
Meteorological Events:	
Wind Speed: 4 mph	Direction: East

Send To:				BP/GEN Facility No.: Station 1601				Consultant: URS Oakland															
Lab Name: Sequoia Analytical				BP/GEN Facility Address: 712 Lewelling Boulevard, San Leandro CA				Address: 500 12th Street, #200															
Lab Address: 885 Jarvis Drive				Site ID No. Station 1601				Oakland, CA 94607															
Morgan Hill, CA				California Global ID #:				E-mail EDD: Henry_Bartollos@JRS Corp.com															
Lab PM: Lalanya Pell				BP/GEN PM Contact: BP Global Alliance; Attn: Accounts Payable				Consultant Project No.:															
Tele/Fax: 408-782-8154/408-782-6308				Address: 4 Center Point Drive, La Palma, CA				Consultant Tele/Fax: 408-297-9585/297-6962															
Report Type & QO Level: Normal				Tele/Fax: 714-670-5552/714-670-5353				Consultant PM: Scott Robinson/Henry Bartollos															
BP/GEN Account No.:								Invoice to: BP West Coast Products															
Lab Bottle Order No.:								BP/GEN Work Release No.:															
Item No	Field Point ID	Sample ID	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments			
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	EPA-8250B+XX	AA	Total metals, see instructions	Phenols	Cyanide				
1		TW-1	0920	X					3														
2		TW-2	0920						2		X					X							
3		TW-3	0920						1				X					X					
4		TW-4	0920	V					1	X						X		X			See notes below		
6																							
7																							
8																							
9																							
10																							
Sampler's Name: VU NGUYEN				Relinquished By: A/R/IL/IL				Date: 6-17-03				Accepted By: A/R/IL/IL				Date: 6/17/03				Time: 1143			
Sampler's Company: URS Oakland																							
Shipment Date: 6-17-03																							
Shipment Method: Courier																							
Shipment Tracking No.:																							
Special Instructions: CAP 2002																							
TW-4 Sample unpreserved, Preserve with H ₂ SO ₄ . Analyze for: Arsenic, Cadmium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Total Chromium, Zinc																							
Custody Seals in Place Yes No				Temperature Blank Yes No				Cooler Temperature on Receipt F/C				Trip Blank Yes No				X							

6/17/03 → Change pH request for TW-4 instead of TW-2

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
 REC. BY (PRINT): TL
 WORKORDER: MMF0423

DATE REC'D AT LAB: 6/17/03
 TIME REC'D AT LAB: 1224
 DATE LOGGED IN: 6/17/03

Drinking water for
 regulatory purposes: YES/NO
 Wastewater for
 regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESER VATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*	01		TW-1	(3) 1/2 gal	HCl	L	6/17/03	
2. Chain-of-Custody	Present / Absent*	02		TW-2	(2) 1/2 gal	HNO ₃	L		
3. Traffic Reports or Packing List:	Present / Absent	03		TW-3	(1) 1/2 gal	NaOH	L		
4. Airbill:	Airbill / Sticker Present / Absent	04		TW-4	(1) 1/2 gal	-	L		Preserve with H ₂ SO ₄
5. Airbill #:									
6. Sample Labels:	Present / Absent								
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody								
8. Sample Condition:	Intact / Broken* / Leaking*								
9. Does information on custody reports, traffic reports and sample labels agree?	Yes / No*								
10. Sample received within hold time:	Yes / No*								
11. Proper Preservatives used:	Yes / No*								
12. Temp Rec. at Lab:	15°C								
Is temp 4 ± 2°C?	Yes / No*								
(Acceptance range for samples requiring thermal pres.)									
**Exception (if any): Metals / DTP (Direct From Field) or Problem COC									

***IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION:**



**Sequoia
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30 June, 2003

Henry Barrientos
URS Corporation [Arco]
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #601, San Leandro, CA
Sequoia Work Order: MMF0629

Enclosed are the results of analyses for samples received by the laboratory on 06/24/03 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate #1210



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500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
601	MMF0629-01	Soil	06/24/03 13:31	06/24/03 16:15

There were no custody seals that were received with this project.



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Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
601 (MMF0629-01) Soil Sampled: 06/24/03 13:31 Received: 06/24/03 16:15									
Lead	17	5.0	mg/kg	1	3F25011	06/25/03	06/25/03	EPA 6010B	

Sequoia Analytical - Morgan Hill

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Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
601 (MMF0629-01) Soil Sampled: 06/24/03 13:31 Received: 06/24/03 16:15									
Benzene	2.6	2.0	ug/kg	4.1	3F24047	06/24/03	06/25/03	EPA 8260B	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	O-12
Bromomethane	ND	8.2	"	"	"	"	"	"	
n-Butylbenzene	5.9	2.0	"	"	"	"	"	"	
sec-Butylbenzene	2.0	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	8.2	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	8.2	"	"	"	"	"	"	O-12a
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	7.0	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	5.2	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	8.2	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
601 (MMF0629-01) Soil Sampled: 06/24/03 13:31 Received: 06/24/03 16:15									
Naphthalene	2.0	2.0	ug/kg	4.1	3F24047	06/24/03	06/25/03	EPA 8260B	
n-Propylbenzene	21	2.0	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	O-12b
1,2,4-Trimethylbenzene	45	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	12	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	26	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	60-140		"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	350	"	3.5	3F30001	06/30/03	06/30/03	"	
Surrogate: 1,2-Dichloroethane-d4		111 %	60-140		"	"	"	"	
Ethanol	ND	160	"	4.1	3F24047	06/24/03	06/25/03	"	
tert-Butyl alcohol	ND	82	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-140		"	"	"	"	

Sequoia Analytical - Morgan Hill

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Sequoia Analytical

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3F25011 - EPA 3050B									
Blank (3F25011-BLK1)					Prepared & Analyzed: 06/25/03				
Lead	ND	5.0	mg/kg						
Laboratory Control Sample (3F25011-BS1)					Prepared & Analyzed: 06/25/03				
Lead	51.9	5.0	mg/kg	50.0		104	76-117		
Matrix Spike (3F25011-MS1)					Source: MMF0629-01 Prepared & Analyzed: 06/25/03				
Lead	75.6	5.0	mg/kg	50.0	17	117	76-117		
Matrix Spike Dup (3F25011-MSD1)					Source: MMF0629-01 Prepared & Analyzed: 06/25/03				
Lead	60.7	5.0	mg/kg	50.0	17	87.4	76-117	21.9	20 QM-07

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F24047 - EPA 5035

Blank (3F24047-BLK1)

Prepared: 06/24/03 Analyzed: 06/25/03

Benzene	ND	0.50	ug/kg						
Ethanol	ND	40	"						
Bromobenzene	ND	0.50	"						
tert-Butyl alcohol	ND	20	"						
Bromochloromethane	ND	0.50	"						
Methyl tert-butyl ether	ND	0.50	"						
Bromodichloromethane	ND	0.50	"						
Di-isopropyl ether	ND	0.50	"						
Bromoform	ND	0.50	"						O-12
Ethyl tert-butyl ether	ND	0.50	"						
Bromomethane	ND	2.0	"						
tert-Amyl methyl ether	ND	0.50	"						
1,2-Dichloroethane	ND	0.50	"						
n-Butylbenzene	ND	0.50	"						
1,2-Dibromoethane (EDB)	ND	0.50	"						
sec-Butylbenzene	ND	0.50	"						
tert-Butylbenzene	ND	0.50	"						
Carbon tetrachloride	ND	0.50	"						
Chlorobenzene	ND	0.50	"						
Chloroethane	ND	2.0	"						
Chloroform	ND	0.50	"						
Chloromethane	ND	5.0	"						
2-Chlorotoluene	ND	0.50	"						
4-Chlorotoluene	ND	0.50	"						
Dibromochloromethane	ND	0.50	"						
1,2-Dibromoethane (EDB)	ND	0.50	"						
Dibromomethane	ND	0.50	"						
1,2-Dibromo-3-chloropropane	ND	2.0	"						O-12a
1,2-Dichlorobenzene	ND	0.50	"						
1,3-Dichlorobenzene	ND	0.50	"						
1,4-Dichlorobenzene	ND	0.50	"						
Dichlorodifluoromethane	ND	0.50	"						
1,1-Dichloroethane	ND	0.50	"						
1,2-Dichloroethane	ND	0.50	"						
1,1-Dichloroethene	ND	0.50	"						
cis-1,2-Dichloroethene	ND	0.50	"						

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F24047 - EPA 5035

Blank (3F24047-BLK1)

Prepared: 06/24/03 Analyzed: 06/25/03

trans-1,2-Dichloroethene	ND	0.50	ug/kg							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							O-12b
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4	5.86	"	5.00	117	60-140
Surrogate: Dibromofluoromethane	5.11	"	5.00	102	60-140
Surrogate: 1,2-Dichloroethane-d4	5.86	"	5.00	117	60-140
Surrogate: Toluene-d8	4.75	"	5.00	95.0	60-140
Surrogate: 4-Bromofluorobenzene	4.82	"	5.00	96.4	60-140

Sequoia Analytical - Morgan Hill

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Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3F24047 - EPA 5035

Laboratory Control Sample (3F24047-BS1)

Prepared & Analyzed: 06/24/03

Benzene	9.06	0.50	ug/kg	10.0		90.6	60-140			
Methyl tert-butyl ether	10.8	0.50	"	10.0		108	60-140			
Chlorobenzene	9.82	0.50	"	10.0		98.2	60-140			
1,1-Dichloroethene	10.4	0.50	"	10.0		104	60-140			
Toluene	9.31	0.50	"	10.0		93.1	60-140			
Trichloroethene	10.6	0.50	"	10.0		106	60-140			

Surrogate: 1,2-Dichloroethane-d4	5.79		"	5.00		116	60-140			
Surrogate: Dibromofluoromethane	5.41		"	5.00		108	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.79		"	5.00		116	60-140			
Surrogate: Toluene-d8	4.86		"	5.00		97.2	60-140			
Surrogate: 4-Bromofluorobenzene	5.19		"	5.00		104	60-140			

Matrix Spike (3F24047-MS1)

Source: MMF0630-01

Prepared & Analyzed: 06/24/03

Benzene	45.1	2.5	ug/kg	50.0	ND	90.2	60-140			
Methyl tert-butyl ether	51.8	2.5	"	50.0	ND	104	60-140			
Chlorobenzene	47.0	2.5	"	50.0	ND	94.0	60-140			
1,1-Dichloroethene	53.4	2.5	"	50.0	ND	107	60-140			
Toluene	45.7	2.5	"	50.0	ND	91.4	60-140			
Trichloroethene	53.4	2.5	"	50.0	ND	107	60-140			

Surrogate: 1,2-Dichloroethane-d4	5.22		"	5.00		104	60-140			
Surrogate: Dibromofluoromethane	5.13		"	5.00		103	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.22		"	5.00		104	60-140			
Surrogate: Toluene-d8	4.68		"	5.00		93.6	60-140			
Surrogate: 4-Bromofluorobenzene	4.80		"	5.00		96.0	60-140			

Matrix Spike Dup (3F24047-MSD1)

Source: MMF0630-01

Prepared & Analyzed: 06/24/03

Benzene	40.9	2.3	ug/kg	46.7	ND	87.6	60-140	9.77	25	
Methyl tert-butyl ether	49.7	2.3	"	46.7	ND	106	60-140	4.14	25	
Chlorobenzene	42.2	2.3	"	46.7	ND	90.4	60-140	10.8	25	
1,1-Dichloroethene	46.6	2.3	"	46.7	ND	99.8	60-140	13.6	25	
Toluene	41.0	2.3	"	46.7	ND	87.8	60-140	10.8	25	
Trichloroethene	49.6	2.3	"	46.7	ND	106	60-140	7.38	25	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch 3F24047 - EPA 5035

Matrix Spike Dup (3F24047-MSD1) Source: MMF0630-01 Prepared & Analyzed: 06/24/03

Surrogate: 1,2-Dichloroethane-d4	5.65		ug/kg	5.00		113	60-140	
Surrogate: Dibromofluoromethane	5.35		"	5.00		107	60-140	
Surrogate: 1,2-Dichloroethane-d4	5.65		"	5.00		113	60-140	
Surrogate: Toluene-d8	4.79		"	5.00		95.8	60-140	
Surrogate: 4-Bromofluorobenzene	5.10		"	5.00		102	60-140	

Batch 3F30001 - EPA 5035

Blank (3F30001-BLK1) Prepared & Analyzed: 06/30/03

Ethanol	ND	40	ug/kg					
tert-Butyl alcohol	ND	20	"					
Methyl tert-butyl ether	ND	0.50	"					
Di-isopropyl ether	ND	0.50	"					
Ethyl tert-butyl ether	ND	0.50	"					
tert-Amyl methyl ether	ND	0.50	"					
1,2-Dichloroethane	ND	0.50	"					
1,2-Dibromoethane (EDB)	ND	0.50	"					
Benzene	ND	0.50	"					
Toluene	ND	0.50	"					
Ethylbenzene	ND	0.50	"					
Xylenes (total)	ND	0.50	"					
Gasoline Range Organics (C6-C10)	ND	100	"					

Surrogate: 1,2-Dichloroethane-d4	5.55		"	5.00		111	60-140	
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Laboratory Control Sample (3F30001-BS2) Prepared & Analyzed: 06/30/03

Methyl tert-butyl ether	7.92	0.50	ug/kg	9.92		79.8	60-140	
Benzene	4.37	0.50	"	6.40		68.3	60-140	
Toluene	29.2	0.50	"	29.7		98.3	60-140	
Gasoline Range Organics (C6-C10)	365	100	"	440		83.0	60-140	

Surrogate: 1,2-Dichloroethane-d4	5.57		"	5.00		111	60-140	
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Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #601, San Leandro, CA
Project Number: N/P
Project Manager: Henry Barrientos

MMF0629
Reported:
06/30/03 18:26

Notes and Definitions

- O-12 "The continuing calibration verification was outside of client contractual acceptance limits by 0.6% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose."
- O-12a "The continuing calibration verification was outside of client contractual acceptance limits by 0.7% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose."
- O-12b "The continuing calibration verification was outside of client contractual acceptance limits by 2.1% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose."
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Chain of Custody Record

Project Name

BP BU/GEM CO Portfolio:

BP Laboratory Contract Number:

Requested Due Date (mm/dd/yy)

Date:

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

Send To: <u>Seismic Analysis</u>			BP/GEM Facility No.: <u>#601</u>			Consultant/Contractor: <u>URS/Oakland</u>													
Lab Name: <u>885 Jarvis Dr.</u>			BP/GEM Facility Address: <u>712 Levee Blvd. Sausalito, CA</u>			Address: <u>500 12th St. #200</u>													
Lab Address: <u>Morgan Hill, CA</u>			Site ID No. <u>#601</u>			City: <u>Oakland, CA</u>													
			Site Lat/Long:			e-mail EDD: <u>Henry-Barrios@URS Corp.com</u>													
			California Global ID #:			Consultant/Contractor Project No.:													
Lab PM:			BP/GEM PM Contact: <u>BP GLO ha / A/Bence: AH. Account # 601</u>			Consultant/Contractor Tele/Fax: <u>408-297-9585 / 297-6962</u>													
Tele/Fax: <u>408-782-8154 / 782-6308</u>			Address: <u>4 Center Point Dr. La Palma, CA</u>			Consultant/Contractor PM: <u>Henry Barrios</u>													
Report Type & QC Level:						Invoice to: Consultant/Contractor for BP/GEM (Circle one)													
BP/GEM Account No.:			Tele/Fax: <u>714-670-5052 / 714-670-5353</u>			BP/GEM Work Release No:													
Lab Bottle Order No:						Requested Analysis													
Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments		
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	BTEX 8021	BTEX/TPH	EPA 8260B	EPA 8270		Total PB	
1	601	13:31	X				61	4											
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler's Name: <u>C. Homb</u>			Relinquished By / Affiliation: <u>C. Homb</u>			Date: <u>6/24/03</u>		Time: <u>1615</u>		Accepted By / Affiliation: <u>Carlos SIOA</u>		Date: <u>6/24/03</u>		Time: <u>3:30</u>					
Sampler's Company: <u>URS/Oakland</u>			Shipment Date: <u>6/24/03</u>			Shipment Method:		Shipment Tracking No:											
Special Instructions: <u>Combine all 4 samples to one composite</u>																			
Custody Seals In Place Yes <u>No</u> Temperature Blank Yes <u>No</u> Cooler Temperature on Receipt <u>Yes</u> Trip Blank Yes <u>No</u>																			

ATTACHMENT C
FIELD SAMPLING DATA SHEETS



SAMPLING LOG

URS

Site ARCO Station No. 601
Samplers Alok Kolekor
PID Model No. 580B OVM Calibration date/time: 6/18/03 9:00 AM

Date 6/18/03 - 6/19/03
Proj No. _____
Page 1 of 1

Sample ID	PID reading (ppm)	Depth feet	Time 24 hrs	Matrix soil/water	Comments
D-1	0.0	4.0	4.52	soil	no odor
D-2	0.0	4.0	4.31	soil	no odor
D-3	1.0	4.0	5.25	soil	no odor
D-4	8	4.0	5.28	soil	no odor
D-5	0	4.0	6.38	soil	no odor
D-6	685	4.0	6.42	soil	strong hydrocarbon odor
D-7	12	5.0	8.40	soil	no odor, sample collected on 6/19/03.
D-8	0.0	4.0	8.45	soil	no odor, sample collected on 6/19/03.
PL-1	0	4.0	5.05	soil	no odor
PL-2	304	4.0	5.20	soil	slight hydrocarbon odor.
PL-3	0	4.0	5.34	soil	no odor
PL-4	0	4.0	5.40	soil	no odor
PL-5	0	9.0	6.03	soil	no odor, excavated to 9 ft bgs. no cohesive soil to sample-NO SAMPLE COLLECTED>
PL-6	0	9.0	6.20	soil	no odor, excavated to 9 ft bgs. no cohesive soil to sample-NO SAMPLE COLLECTED>
PL-7	30	5.0	6.26	soil	slight hydrocarbon odor.
PL-8	0	6.0	8.48	soil	no odor, sample collected on 6/19/03.
PL-9	0	4.0	6.47	soil	no odor
PL-10	0	5.0	8.25	soil	no odor, sample collected on 6/19/03.
PL-11	0	4.0	8.55	soil	no odor, sample collected on 6/19/03.
PL-12	0	5.0	9.30	soil	no odor, sample collected on 6/19/03.
PL-13	9	4.0	9.10	soil	slight hydrocarbon odor, sample collected on 6/19/03.
PL-14	0	6.0	9.15	soil	no odor, sample collected on 6/19/03.
OE PL-2	34	8.0	9.50	soil	no odor, overexcavation sample from PL-2 sample collected on 6/19/03.

see map for sampling locations

Notes:

Samples PL-5 and PL-6 were not collected since a representative soil sample could not be obtained.

ATTACHMENT D
WASTE MANIFESTS



REPUBLIC SERVICES VASCO ROAD, LLC

4001 N. Vasco Road, Livermore, California 94551 • (925) 447-0491

63708

TICKET: 419591
CUSTOMER: DILL / DILLARD/EXXON
TRUCK: 01
ACCT#: 5007814
PROFILE #: 1002101

DATE: 07/03/2003

TIME: 11:50 - 11:50

GENERATOR: 1002101 / ARCO #501
ORIGIN: 10 / SAN LEONARD
LICENSE:
COMMENT:

GROSS: 64420 LBS
TARE: 30260 LBS Manual
NET: 34160 LBS

WASTE:

QUANTITY	UNIT	RATE	AMOUNT
----------	------	------	--------

SOIL / SOIL - NDC

17.00 T

RECEIVED
JUL 10 2003

Tax

I certify that I have not disposed
of any liquid or hazardous waste.

Total:

RAYMOND V.

Weighmaster:

DRIVER

[Signature]

RECYCLING

All children must remain in vehicles.
Absolutely no salvaging allowed.

WARNING: Transporting any unauthorized
hazardous waste to this facility for disposal is
prohibited by law. Persons violating this prohibition
are subject to civil and criminal prosecution.

SITE 601

**REPUBLIC SERVICES VASCO ROAD, LLC**

4001 N. Vasco Road, Livermore, California 94551 • (925) 447-0491

63508

TICKET: 419588
 CUSTOMER: DILL / DILLARD/EXXON
 TRUCK: 01
 ACCT#: 5007814
 PROFILE #: 1002161

DATE: 07/03/2003

TIME: 08:53 08:53

GENERATOR: 1002161 / AREA #601
 ORIGIN: 10 / SAN LEANDRO
 LICENSE:
 COMMENT:

GROSS: 62900 LBS
 TARE: 30200 LBS Manual
 NET: 32700 LBS

WASTE:	QUANTITY	UNIT	RATE	AMOUNT
SOIL / SOIL ABC	16.35	YD		

Tax

I certify that I have not disposed
 of any liquid or hazardous waste.

RECEIVED
 JUL 10 2003

Total
 PAYMENT

Weighmaster:

DRIVER

RECYCLING

All children must remain in vehicles.
 Absolutely no salvaging allowed.

WARNING: Transporting any unauthorized
 hazardous waste to this facility for disposal is
 prohibited by law. Persons violating this prohibition
 are subject to civil and criminal prosecution.



REPUBLIC SERVICES VASCO ROAD, LLC
4001 N. Vasco Road, Livermore, California 94551 • (925) 447-0491

63674

TICKET: 119507
CUSTOMER: BILL / BILLARD EXXON
TRUCK: 000
ACCT#: 5007014
PROFILE #: 1002101

DATE: 07/02/2003

TIME: 11:00 11:30

GENERATOR: 1002101 / ARCO #001
ORIGIN: 10 / SAN LEANDRO
LICENSE:
COMMENT:

GROSS: 79040 LBS
TARE: 36000 LBS
NET: 43040 LBS

WASTE:	QUANTITY	UNIT	RATE	AMOUNT
000 / 000 / 000	23.52	T		

Tax

I certify that I have not disposed
of any liquid or hazardous waste.

Total:

MARK P

Weighmaster:

DRIVER

RECYCLING

All children must remain in vehicles.
Absolutely no salvaging allowed.

WARNING: Transporting and unauthorized
disposal of hazardous waste to this facility is
prohibited by law. Persons violating this prohibition
are subject to civil and criminal prosecution.

RECEIVED
JUL - 9 2003

**REPUBLIC SERVICES VASCO ROAD, LLC**

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63500

TICKET: 410380
CUSTOMER: DILL / DILLARD/EXXON
TRUCK: 001
ACCT#: 5007014
PROFILE #: 1002161

DATE: 07/03/2003

TIME: 08:43 09:43

GENERATOR: 1002161 / ARCO W001
ORIGIN: 10 / SAN LEBRON
LICENSE:
COMMENT:

GROSS: 72100 LBS
TARE: 32700 LBS Manual
NET: 39400 LBS

WASTE:	QUANTITY	UNIT	RATE	AMOUNT
SOIL / SOIL ADD	19.74	YD		

Tax

I certify that I have not disposed
of any liquid or hazardous waste.

Total:

RAYMOND V.

Weighmaster:

DRIVER

RECYCLING

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63481

TICKET: 419901
CUSTOMER: DILL / DILLARD/EX7004
TRUCK: 931
ACCT#: 5007014
PROFILE #: 1002161

DATE: 07/03/2003

TIME: 08:24 - 08:25

GENERATOR: 1002161 / ARCO #001
ORIGIN: 10 / SAN LEANDRO
LICENSE:
COMMENT:

GROSS: 60840 LBS
TARE: 31000 LBS
NET: 29840 LBS

WASTE:	QUANTITY	UNIT	RATE	AMOUNT
--------	----------	------	------	--------

SOIL / SOIL ADD

14.82

T

Tax

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I certify that I have not disposed
of any liquid or hazardous waste.

Total:

RAYMOND Y.

Weighmaster:

DRIVER

RECYCLING

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65579

TICKET: 421459
CUSTOMER: BILL / DR. LINDA / EXXON
TRUCK: 191
ACCT#: 5007014
PROFILE #: 1002101

DATE: 07/03/2003

TIME: 08:55 08:56

GENERATOR: 1002101 / APCD #501
ORIGIN: 10 / SAN LEANDRO
LICENSE:
COMMENT:

GROSS: 48710 LBS
TARE: 31440 LBS (Mandol)
NET: 17500 LBS

WASTE:	QUANTITY	UNIT	RATE	AMOUNT
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GILL / GILL - ADD	0.75	T		
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JUL 10 2003

Tax

I certify that I have not disposed
of any liquid or hazardous waste.

Total:

MADE BY

Weighmaster:

DRIVER

RECYCLING

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