

Alameda County  
FEB 11 2003  
Environmental Health

**LETTER OF TRANSMITTAL**

February 7, 2003

DH

**TO:** ~~Susan Hugo~~  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, CA 94502

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

**SUBJECT:** Final Soil Sampling report for Arco Station 4931

Enclosed you will find one copy of the Soil Sampling Report for the line/dispenser upgrade work performed at Arco Station 4931 in Oakland, CA. Should you have any questions regarding this report please call me at 408-297-9585.

Regards,

Cc: Scott Robinson, URS  
Paul Supple, BP  
Hernan Gomez, OFD

R76

January 21, 2003

Hernan E. Gomez  
Oakland Fire Department  
Hazardous Materials  
1605 Martin Luther King Jr. Way  
Oakland, CA 94612

Alameda County  
FEB 11 2003  
Environmental Health

Re: **Product Line Removal and Upgrade Soil Sampling Report**  
**ARCO Service Station No. 4931**  
**731 West MacArther Boulevard,**  
**Oakland, California 94609**  
**URS Project No. 38485977**

Dear Mr. Gomez:

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

**Site Background**

The site is located at 731 West MacArther Boulevard, Oakland, California (Figures 1 and 2). Currently, the site is operated as an ARCO gasoline service station. The site is bounded by West Street to the west, West MacArther to the north, and commercial buildings to the east and south. The majority of the property is concrete and asphalt paved.

Current site structures include four double-walled fiberglass gasoline underground storage tanks (USTs), three pump islands with twelve dispensers, and a convenience store. Currently there is in-active remediation system at this site, however groundwater monitoring is conducted on a quarterly basis.

**Soil Sampling – Dispensers and Line Sampling**

On October 2, 2002, prior to collecting soil samples, all sampling locations were reviewed, marked in the field, and approved by Mr. Hernan Gomez, with the City of Oakland Fire Department. Prior to sampling all dispensers and related double walled fiberglass piping was removed by the contractor, KE Curtis Construction. URS personnel inspected the fuel pipelines for any observable cracks or deterioration. In addition sampling locations were inspected for any soil staining and hydrocarbon odor to help determine if over-excavation was necessary. No observable cracks or deterioration in the pipelines were reported.

Soil staining and hydrocarbon odors were reported at two sampling locations, and subsequently vertically over-excavated. URS personnel collected soil samples after the contractor operated backhoe bucket had excavated to the appropriate depth. Samples were collected as follows:

- Eleven soil samples (designated S1, S2, S4 through S12) were collected at an approximate depth of 3 feet below ground surface (bgs) at the former dispenser stands. Sample S3 could not be collected, as it was located underneath part of the concrete island supporting the canopy column (Figure2).
- Fifteen soil samples (designated L1 through L13, and over-excavation samples L3A and L4A) were collected at a depth of 2 feet and 5 feet bgs, in the product line trenches, respectively (Figure 2).

Soil samples were analyzed for total purgeable hydrocarbons as gasoline (TPH) by EPA Method 8015B; benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8260B. Samples were submitted to a California State Certified laboratory, Sequoia Analytical Laboratory in Morgan Hill, California for analysis.

Nine of the twenty-six samples collected and analyzed resulted in low TPHg and BTEX concentrations. Notably, sampling locations S12 and L4 reported TPHg concentrations at 56 parts per million (ppm) and 120 ppm, respectively. In addition, all except two samples resulted in MTBE concentrations, most notably samples L1, L3 and L4A at 160 ppm, 240 ppm and 200 ppm, respectively. Sampling location L2 reported as non-detect (ND) for all constituents (Table 1).

### **Stockpile 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. Four soil samples were collected from the stockpiled soil on site and labeled Pile A through D. Analytical results reported ND levels for TPHg and BTEX constituents. Motor Oil was reported in samples Pile A, Pile C and Pile D at 23 ppm, 74 ppm and 38 ppm, respectively. Analytical results for metals indicated concentrations commonly found in soils of the region (Table 2).

These analytical results were used to profile and dispose the stockpiled soil. From October 29<sup>th</sup> through November 2<sup>nd</sup> 2002, Dillard Environmental removed approximately 170 tons of soil from the site, and transported it to two California Class II landfills (Altamont Landfill and Republic Services Landfill). Copies of the Waste Manifests are presented as Attachment A.

Field and laboratory procedures are presented as Attachment B. Laboratory analytical reports and chain-of-custody documentation are presented as Attachment C. Field Sampling Data Sheets are presented as Attachment D. The Unauthorized Release Report (URR), if warranted is included in Appendix E.

## Conclusions

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

- Except for sampling locations L3A and L4A, no over-excavation was performed at this site since no obvious stained soil or hydrocarbon odors were encountered in the field. Subsequent soil sample analytical results for the two over excavated areas and those not over-excavated supported the decision not to further over-excavate.
- All pre-existing double-walled fiberglass product lines and fuel dispensers were removed and replaced in approximately the same locations, backfilled with pea gravel, and paved with concrete.
- An Unauthorized Release Report was not submitted for this site, since it is an active site with a known release, and is currently monitored on a quarterly basis with future remediation efforts scheduled.

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

Background information, including but not limited to previous field measurements, analytical results, site plans, and other data has been furnished to URS by BP West Coast Products LLC, 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 Americas**

Henry Barrientos  
Project Engineer

  
Scott Robinson  
Project Manager

Table 1 – Line Upgrade Soil Analytical Data  
Figure 1 - Site Location Map  
Figure 2 - Site Map with Sample Locations

Attachment A - Field and Laboratory Procedures  
Attachment B - Laboratory Analytical Laboratory Reports and Chain-of-Custody  
Attachment C –Field Sampling Data Sheets

cc: Mr. Paul Supple, Atlantic Richfield Company  
Ms. Susan Hugo, Alameda County Health Care Services Agency  
Project and Chron files

**TABLE**

**Soil Analytical Data**  
 ARCO Service Station 4931  
 731 West MacArthur Boulevard  
 Oakland, California

**TABLE 1**  
**Dispenser and Product Line Soil Sample Results**

Soil Sample ID	Sample Depth (feet)	Date Sampled	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
S1	3	10/02/02	ND<0.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	8.2
S2	3	10/02/02	2	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.35
S4	3	10/02/02	ND<0.5	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.92
S5	3	10/02/02	2	ND<1.4	ND<1.4	ND<1.4	ND<1.4	ND<1.4
S6	3	10/02/02	0.9	ND<0.1	0.15	ND<0.1	0.89	3.8
S7	3	10/02/02	ND<0.5	ND<4.3	ND<4.3	ND<4.3	ND<4.3	96
S8	3	10/02/02	0.62	ND<4.6	57	64	590	200
S9	3	10/02/02	ND<0.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5	6.8
S10	3	10/02/02	ND<0.5	ND<2.2	ND<2.2	ND<2.2	ND<2.2	59
S11	3	10/02/02	ND<0.5	ND<1.8	ND<1.8	ND<1.8	ND<1.8	32
S12	3	10/02/02	56	ND<0.10	ND<0.10	0.39	6.6	0.058
L1	3	10/02/02	ND<0.5	ND<2.4	ND<2.4	ND<2.4	ND<2.4	160
L2	3	10/02/02	ND<0.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
L3	3	10/02/02	ND<0.5	ND<4.0	ND<4.0	ND<4.0	ND<4.0	240
L3A	5	10/02/02	ND<0.5	ND<0.05	ND<0.05	ND<0.05	0.074	0.60
L4	3	10/02/02	120	ND<1.0	2.9	2.9	38	1.9
L4A	5	10/02/02	ND<0.5	5.2	ND<4.1	4.4	ND<4.1	200
L5	3	10/02/02	ND<0.5	ND<2.2	ND<2.4	ND<2.7	25	20
L6	3	10/02/02	ND<0.5	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.48
L7	3	10/02/02	ND<0.5	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.34
L8	3	10/02/02	ND<0.5	ND<1.4	ND<1.4	ND<1.4	ND<1.4	33
L9	3	10/02/02	ND<0.5	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.54
L10	3	10/02/02	ND<0.5	ND<0.05	ND<0.05	ND<0.05	0.061	0.79
L11	3	10/02/02	ND<0.5	ND<1.6	ND<1.6	ND<1.6	ND<1.6	15
L12	3	10/02/02	ND<0.5	ND<1.4	ND<1.4	ND<1.4	ND<1.4	130
L13	3	10/02/02	ND<0.5	ND<2.2	ND<2.2	ND<2.2	ND<2.2	22

**TABLE 2**  
**Stockpiled Soil Sample Results**

Soil Sample ID	Sample Depth (feet)	Date Sampled	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	Motor Oil (ppm)
Pile A	3	10/04/02	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	23
Pile B	3	10/04/02	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<10
Pile C	3	10/04/02	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	74
Pile D	3	10/04/02	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	38

TPH = Total purgeable petroleum hydrocarbons using EPA Method 8015, modified.  
 BTEX = Benzene, toluene, ethylbenzene, total xylenes using EPA Method 8021B.  
 MTBE = Methyl Tertiary Butyl Ether.  
 ppb = Parts per billion.  
 ppm = Parts per million.  
 ND< = Less than stated laboratory detection limit.

**FIGURES**





NORTH

**PROJECT  
LOCATION**

MARKET STREET

MARTIN LUTHER KING JR. WAY

24

WEST MACARTHUR BLVD



36TH STREET

TELEGRAPH AVENUE

SAN PABLO AVENUE

580

980

200 m 1000 ft

Project No. 38485977

ARCO Service Station 4931  
731 West MacArthur Boulevard  
Oakland, California

SITE LOCATION MAP

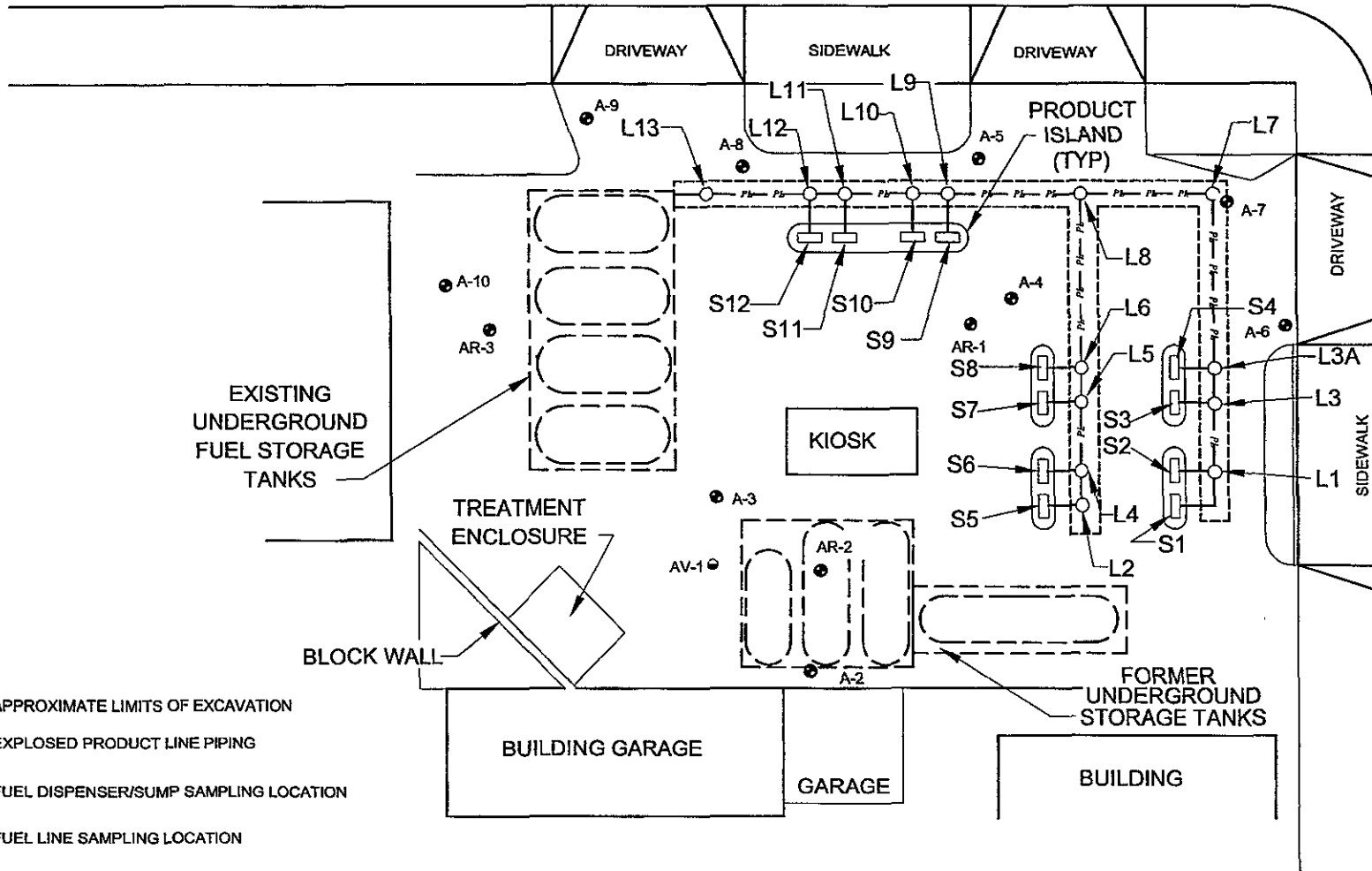
Figure  
1



● A-12

● A-11

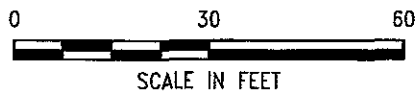
# WEST STREET



### LEGEND

- APPROXIMATE LIMITS OF EXCAVATION
- EXPLOSED PRODUCT LINE PIPING
- FUEL DISPENSER/SUMP SAMPLING LOCATION
- FUEL LINE SAMPLING LOCATION
- A-2 MONITORING WELL LOCATION
- AV-1 SOIL VAPOR EXTRACTION WELL LOCATION

NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



# URS

Project No. 38465952  
 Arco Service Station 4931  
 731 West MacArthur Boulevard  
 Oakland, California

SOIL SAMPLING LOCATION PLAN  
 OCTOBER 2, 2002

Figure  
 2

**Attachment A**

**Field And Laboratory Procedures**

## **Attachment A**

### **Field and Laboratory Procedures**

#### **Soil Sampling**

Soil samples were collected by advancing a 4-inch long by 2-inch in diameter brass sample liners into undisturbed soil. Soil samples for chemical analysis were retained in the brass liners, capped with Teflon sheets and plastic end caps, and labeled. 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**

Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by EPA Method 8015B. For benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8260B.

**Attachment B**

**Laboratory Analytical Laboratory Reports And  
Chain-Of-Custody Documentation**



**Sequoia  
Analytical**

885 Jarvis Drive  
Morgan Hill, CA 95037  
(408) 776-9600  
FAX (408) 782-6308  
[www.sequoialabs.com](http://www.sequoialabs.com)

23 October, 2002

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

RE: ARCO #4931, Oakland, Ca  
Sequoia Report: MLJ0139

Enclosed are the results of analyses for samples received by the laboratory on 10/03/02 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt  
Project Manager

CA ELAP Certificate #1210



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

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

Reported:  
10/23/02 13:55

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S1	MLJ0139-01	Soil	10/02/02 15:35	10/03/02 16:40
L1	MLJ0139-02	Soil	10/02/02 15:38	10/03/02 16:40
S2	MLJ0139-03	Soil	10/02/02 15:41	10/03/02 16:40
S5	MLJ0139-04	Soil	10/02/02 15:45	10/03/02 16:40
L2	MLJ0139-05	Soil	10/02/02 15:47	10/03/02 16:40
S6	MLJ0139-06	Soil	10/02/02 15:51	10/03/02 16:40
L4	MLJ0139-07	Soil	10/02/02 15:52	10/03/02 16:40
S7	MLJ0139-08	Soil	10/02/02 15:56	10/03/02 16:40
L5	MLJ0139-09	Soil	10/02/02 15:57	10/03/02 16:40
L4-A	MLJ0139-10	Soil	10/02/02 16:15	10/03/02 16:40
S8	MLJ0139-11	Soil	10/02/02 16:20	10/03/02 16:40
L6	MLJ0139-12	Soil	10/02/02 16:26	10/03/02 16:40
L3	MLJ0139-13	Soil	10/02/02 16:30	10/03/02 16:40
L3A	MLJ0139-14	Soil	10/02/02 16:33	10/03/02 16:40
S4	MLJ0139-15	Soil	10/02/02 16:35	10/03/02 16:40
L7	MLJ0139-16	Soil	10/02/02 16:55	10/03/02 16:40
L8	MLJ0139-17	Soil	10/02/02 17:00	10/03/02 16:40
L12	MLJ0139-18	Soil	10/02/02 17:10	10/03/02 16:40
S12	MLJ0139-19	Soil	10/02/02 17:13	10/03/02 16:40
L11	MLJ0139-20	Soil	10/02/02 17:17	10/03/02 16:40
S11	MLJ0139-21	Soil	10/02/02 17:20	10/03/02 16:40
L10	MLJ0139-22	Soil	10/02/02 17:23	10/03/02 16:40
S10	MLJ0139-23	Soil	10/02/02 17:25	10/03/02 16:40
L9	MLJ0139-24	Soil	10/02/02 17:30	10/03/02 16:40
S9	MLJ0139-25	Soil	10/02/02 17:32	10/03/02 16:40
L13	MLJ0139-26	Soil	10/02/02 17:35	10/03/02 16:40

Sequoia Analytical - Morgan Hill

Latonya Pelt, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

Reported:  
10/23/02 13:55

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S1 (MLJ0139-01) Soil Sampled: 10/02/02 15:35 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J17029	10/15/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.0 %	41-173		"	"	"	"	
<b>L1 (MLJ0139-02) Soil Sampled: 10/02/02 15:38 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J17029	10/15/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		80.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	41-173		"	"	"	"	
<b>S2 (MLJ0139-03) Soil Sampled: 10/02/02 15:41 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	2.0	mg/kg	1	2J17029	10/15/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		83.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	41-173		"	"	"	"	
<b>S5 (MLJ0139-04) Soil Sampled: 10/02/02 15:45 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	2.0	mg/kg	1	2J17029	10/15/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		78.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	41-173		"	"	"	"	
<b>L2 (MLJ0139-05) Soil Sampled: 10/02/02 15:47 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J17029	10/15/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		72.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.5 %	41-173		"	"	"	"	
<b>S6 (MLJ0139-06) Soil Sampled: 10/02/02 15:51 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	0.90	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	HC-21
Surrogate: a,a,a-Trifluorotoluene		112 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.0 %	41-173		"	"	"	"	





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

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

Reported:  
10/23/02 13:55

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>L4 (MLJ0139-07) Soil Sampled: 10/02/02 15:52 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	120	1.0	mg/kg	1	2J16040	10/16/02	10/16/02	8015Bm	HC-12,O-09 a
Surrogate: a,a,a-Trifluorotoluene		82.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		352 %	41-173		"	"	"	"	S-02
<b>S7 (MLJ0139-08) Soil Sampled: 10/02/02 15:56 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	41-173		"	"	"	"	
<b>L5 (MLJ0139-09) Soil Sampled: 10/02/02 15:57 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		76.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	41-173		"	"	"	"	
<b>L4-A (MLJ0139-10) Soil Sampled: 10/02/02 16:15 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		94.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	41-173		"	"	"	"	
<b>S8 (MLJ0139-11) Soil Sampled: 10/02/02 16:20 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	0.62	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	HC-12
Surrogate: a,a,a-Trifluorotoluene		102 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	41-173		"	"	"	"	
<b>L6 (MLJ0139-12) Soil Sampled: 10/02/02 16:26 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		83.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.0 %	41-173		"	"	"	"	

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

 Project: ARCO #4931, Oakland, Ca  
 Project Number: ARCO #4931, Oakland, CA  
 Project Manager: Scott Robinson

 Reported:  
 10/23/02 13:55

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>L3 (MLJ0139-13) Soil Sampled: 10/02/02 16:30 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		89.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	41-173		"	"	"	"	
<b>L3A (MLJ0139-14) Soil Sampled: 10/02/02 16:33 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		101 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	41-173		"	"	"	"	
<b>S4 (MLJ0139-15) Soil Sampled: 10/02/02 16:35 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		90.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	41-173		"	"	"	"	
<b>L7 (MLJ0139-16) Soil Sampled: 10/02/02 16:55 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		80.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	41-173		"	"	"	"	
<b>L8 (MLJ0139-17) Soil Sampled: 10/02/02 17:00 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		77.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	41-173		"	"	"	"	
<b>L12 (MLJ0139-18) Soil Sampled: 10/02/02 17:10 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		75.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	41-173		"	"	"	"	



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Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

Reported:  
10/23/02 13:55

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S12 (MLJ0139-19) Soil Sampled: 10/02/02 17:13 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	56	20	mg/kg	20	2J16040	10/16/02	10/16/02	8015Bm	HC-21
Surrogate: a,a,a-Trifluorotoluene		97.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		274 %	41-173		"	"	"	"	S-01
<b>L11 (MLJ0139-20) Soil Sampled: 10/02/02 17:17 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		80.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	41-173		"	"	"	"	
<b>S11 (MLJ0139-21) Soil Sampled: 10/02/02 17:20 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		87.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	41-173		"	"	"	"	
<b>L10 (MLJ0139-22) Soil Sampled: 10/02/02 17:23 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		73.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	41-173		"	"	"	"	
<b>S10 (MLJ0139-23) Soil Sampled: 10/02/02 17:25 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		74.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	41-173		"	"	"	"	
<b>L9 (MLJ0139-24) Soil Sampled: 10/02/02 17:30 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		84.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	41-173		"	"	"	"	



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10/23/02 13:55

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S9 (MLJ0139-25) Soil Sampled: 10/02/02 17:32 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		78.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	41-173		"	"	"	"	
<b>L13 (MLJ0139-26) Soil Sampled: 10/02/02 17:35 Received: 10/03/02 16:40</b>									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J16001	10/16/02	10/16/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		83.0 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	41-173		"	"	"	"	



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**MTBE by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S1 (MLJ0139-01) Soil Sampled: 10/02/02 15:35 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	8.2	2.0	ug/kg	4	2J12001	10/12/02	10/12/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-140		"	"	"	"	
<b>L1 (MLJ0139-02) Soil Sampled: 10/02/02 15:38 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	160	2.4	ug/kg	00002288	2J12001	10/12/02	10/12/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-140		"	"	"	"	
<b>S2 (MLJ0139-03) Soil Sampled: 10/02/02 15:41 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	0.35	0.025	mg/kg	1	2J17019	10/16/02	10/16/02	EPA 8260B	O-10
Surrogate: 1,2-Dichloroethane-d4		91.2 %	60-140		"	"	"	"	
<b>S5 (MLJ0139-04) Soil Sampled: 10/02/02 15:45 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	ND	1.4	ug/kg	00000190	2J12001	10/12/02	10/12/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-140		"	"	"	"	
<b>L2 (MLJ0139-05) Soil Sampled: 10/02/02 15:47 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	ND	2.0	ug/kg	00000572	2J12001	10/12/02	10/12/02	EPA 8260B	O-09
Surrogate: 1,2-Dichloroethane-d4		106 %	60-140		"	"	"	"	
<b>S6 (MLJ0139-06) Soil Sampled: 10/02/02 15:51 Received: 10/03/02 16:40</b> HT-04									
Methyl tert-butyl ether	3.8	0.050	mg/kg	2	2J17019	10/16/02	10/20/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	60-140		"	"	"	"	
<b>L4 (MLJ0139-07) Soil Sampled: 10/02/02 15:52 Received: 10/03/02 16:40</b> HT-04									
Methyl tert-butyl ether	1.9	0.50	mg/kg	20	2J17019	10/16/02	10/20/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-140		"	"	"	"	



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**MTBE by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S7 (MLJ0139-08) Soil Sampled: 10/02/02 15:56 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	96	4.3	ug/kg		39998855; 2J15012	10/15/02	10/15/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	60-140		"	"	"	"	
<b>L5 (MLJ0139-09) Soil Sampled: 10/02/02 15:57 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	20	1.8	ug/kg		39999046; 2J12001	10/12/02	10/13/02	EPA 8260B	O-09
Surrogate: 1,2-Dichloroethane-d4		97.0 %	60-140		"	"	"	"	
<b>L4-A (MLJ0139-10) Soil Sampled: 10/02/02 16:15 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	200	4.1	ug/kg		39998092; 2J15012	10/15/02	10/15/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	60-140		"	"	"	"	
<b>S8 (MLJ0139-11) Soil Sampled: 10/02/02 16:20 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	200	4.6	ug/kg		00002288; 2J15012	10/15/02	10/16/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	60-140		"	"	"	"	
<b>L6 (MLJ0139-12) Soil Sampled: 10/02/02 16:26 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	0.48	0.025	mg/kg	1	2J17019	10/16/02	10/20/02	EPA 8260B	HT-04
Surrogate: 1,2-Dichloroethane-d4		91.6 %	60-140		"	"	"	"	
<b>L3 (MLJ0139-13) Soil Sampled: 10/02/02 16:30 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	240	4.0	ug/kg		00004196; 2J15012	10/15/02	10/16/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	60-140		"	"	"	"	
<b>L3A (MLJ0139-14) Soil Sampled: 10/02/02 16:33 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	0.60	0.025	mg/kg	1	2J17019	10/16/02	10/16/02	EPA 8260B	O-10
Surrogate: 1,2-Dichloroethane-d4		86.6 %	60-140		"	"	"	"	



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**MTBE by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S4 (MLJ0139-15) Soil Sampled: 10/02/02 16:35 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	0.92	0.025	mg/kg	1	2J17019	10/16/02	10/16/02	EPA 8260B	O-10
Surrogate: 1,2-Dichloroethane-d4		87.2 %	60-140		"	"	"	"	
<b>L7 (MLJ0139-16) Soil Sampled: 10/02/02 16:55 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	0.34	0.025	mg/kg	1	2J17019	10/16/02	10/16/02	EPA 8260B	O-10
Surrogate: 1,2-Dichloroethane-d4		87.8 %	60-140		"	"	"	"	
<b>L8 (MLJ0139-17) Soil Sampled: 10/02/02 17:00 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	33	1.4	ug/kg	000010491	2J12002	10/12/02	10/13/02	EPA 8260B	O-09
Surrogate: 1,2-Dichloroethane-d4		91.8 %	60-140		"	"	"	"	
<b>L12 (MLJ0139-18) Soil Sampled: 10/02/02 17:10 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	130	1.4	ug/kg	999999041	2J12002	10/12/02	10/13/02	EPA 8260B	O-09
Surrogate: 1,2-Dichloroethane-d4		94.4 %	60-140		"	"	"	"	
<b>S12 (MLJ0139-19) Soil Sampled: 10/02/02 17:13 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	0.058	0.050	mg/kg	2	2J17019	10/16/02	10/20/02	EPA 8260B	HT-04
Surrogate: 1,2-Dichloroethane-d4		100 %	60-140		"	"	"	"	
<b>L11 (MLJ0139-20) Soil Sampled: 10/02/02 17:17 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	15	1.6	ug/kg	000003811	2J12002	10/12/02	10/14/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	60-140		"	"	"	"	
<b>S11 (MLJ0139-21) Soil Sampled: 10/02/02 17:20 Received: 10/03/02 16:40</b>									
Methyl tert-butyl ether	32	1.8	ug/kg	999998091	2J12002	10/12/02	10/14/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		87.2 %	60-140		"	"	"	"	



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**MTBE by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>L10 (MLJ0139-22) Soil</b> Sampled: 10/02/02 17:23 Received: 10/03/02 16:40									HT-04
Methyl tert-butyl ether	0.79	0.025	mg/kg	1	2J17019	10/16/02	10/17/02	EPA 8260B	O-10
Surrogate: 1,2-Dichloroethane-d4		87.4 %	60-140		"	"	"	"	
<b>S10 (MLJ0139-23) Soil</b> Sampled: 10/02/02 17:25 Received: 10/03/02 16:40									
Methyl tert-butyl ether	59	2.2	ug/kg	00000381	2J12002	10/12/02	10/14/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	60-140		"	"	"	"	
<b>L9 (MLJ0139-24) Soil</b> Sampled: 10/02/02 17:30 Received: 10/03/02 16:40									HT-04
Methyl tert-butyl ether	0.54	0.025	mg/kg	1	2J17019	10/16/02	10/17/02	EPA 8260B	O-10
Surrogate: 1,2-Dichloroethane-d4		89.4 %	60-140		"	"	"	"	
<b>S9 (MLJ0139-25) Soil</b> Sampled: 10/02/02 17:32 Received: 10/03/02 16:40									
Methyl tert-butyl ether	6.8	1.5	ug/kg	999997134	2J12002	10/12/02	10/14/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	60-140		"	"	"	"	
<b>L13 (MLJ0139-26) Soil</b> Sampled: 10/02/02 17:35 Received: 10/03/02 16:40									
Methyl tert-butyl ether	22	2.2	ug/kg	00000762	2J12002	10/12/02	10/14/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	60-140		"	"	"	"	





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**BTEX by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S2 (MLJ0139-03) Soil</b> Sampled: 10/02/02 15:41 Received: 10/03/02 16:40									
Benzene	ND	0.050	mg/kg	1	2J17019	10/16/02	10/16/02	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
Total Xylenes	ND	0.050	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.2 %	60-140	"	"	"	"	"	
<b>S6 (MLJ0139-06) Soil</b> Sampled: 10/02/02 15:51 Received: 10/03/02 16:40 <span style="float:right">HT-04</span>									
Benzene	ND	0.10	mg/kg	2	2J17019	10/16/02	10/20/02	EPA 8260B	
Toluene	0.15	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
Total Xylenes	0.89	0.10	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	60-140	"	"	"	"	"	
<b>L4 (MLJ0139-07) Soil</b> Sampled: 10/02/02 15:52 Received: 10/03/02 16:40 <span style="float:right">HT-04</span>									
Benzene	ND	1.0	mg/kg	20	2J17019	10/16/02	10/20/02	EPA 8260B	
Toluene	2.9	1.0	"	"	"	"	"	"	
Ethylbenzene	2.9	1.0	"	"	"	"	"	"	
Total Xylenes	38	1.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	60-140	"	"	"	"	"	
<b>L6 (MLJ0139-12) Soil</b> Sampled: 10/02/02 16:26 Received: 10/03/02 16:40 <span style="float:right">HT-04,R-05</span>									
Benzene	ND	0.050	mg/kg	1	2J17019	10/16/02	10/20/02	EPA 8260B	R-05
Toluene	ND	0.050	"	"	"	"	"	"	R-05
Ethylbenzene	ND	0.050	"	"	"	"	"	"	R-05
Total Xylenes	ND	0.050	"	"	"	"	"	"	R-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.6 %	60-140	"	"	"	"	"	R-05



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**BTEX by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>L3A (MLJ0139-14) Soil</b> Sampled: 10/02/02 16:33 Received: 10/03/02 16:40									
Benzene	ND	0.050	mg/kg	1	2J17019	10/16/02	10/16/02	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
Total Xylenes	0.074	0.050	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		86.6 %	60-140	"	"	"	"	"	
<b>S4 (MLJ0139-15) Soil</b> Sampled: 10/02/02 16:35 Received: 10/03/02 16:40									
Benzene	ND	0.050	mg/kg	1	2J17019	10/16/02	10/16/02	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
Total Xylenes	ND	0.050	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		87.2 %	60-140	"	"	"	"	"	
<b>L7 (MLJ0139-16) Soil</b> Sampled: 10/02/02 16:55 Received: 10/03/02 16:40									
Benzene	ND	0.050	mg/kg	1	2J17019	10/16/02	10/16/02	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
Total Xylenes	ND	0.050	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		87.8 %	60-140	"	"	"	"	"	
<b>S12 (MLJ0139-19) Soil</b> Sampled: 10/02/02 17:13 Received: 10/03/02 16:40 <span style="float: right;">HT-04</span>									
Benzene	ND	0.10	mg/kg	2	2J17019	10/16/02	10/20/02	EPA 8260B	
Toluene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	0.39	0.10	"	"	"	"	"	"	
Total Xylenes	6.6	0.10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	60-140	"	"	"	"	"	



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**BTEX by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>L10 (MLJ0139-22) Soil</b> <b>Sampled: 10/02/02 17:23</b> <b>Received: 10/03/02 16:40</b>									<b>HT-04</b>
Benzene	ND	0.050	mg/kg	1	2J17019	10/16/02	10/17/02	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
<b>Total Xylenes</b>	<b>0.061</b>	<b>0.050</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.4 %	60-140	"	"	"	"	"	
<b>L9 (MLJ0139-24) Soil</b> <b>Sampled: 10/02/02 17:30</b> <b>Received: 10/03/02 16:40</b>									<b>HT-04</b>
Benzene	ND	0.050	mg/kg	1	2J17019	10/16/02	10/17/02	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
<b>Total Xylenes</b>	<b>ND</b>	<b>0.050</b>	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.4 %	60-140	"	"	"	"	"	



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Project: ARCO #4931, Oakland, Ca  
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Project Manager: Scott Robinson

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10/23/02 13:55

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S1 (MLJ0139-01) Soil Sampled: 10/02/02 15:35 Received: 10/03/02 16:40</b>									
Benzene	ND	2.0	ug/kg	4	2J12001	10/12/02	10/12/02	EPA 8260B	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Total Xylenes	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		92.2 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	60-140		"	"	"	"	
<b>L1 (MLJ0139-02) Soil Sampled: 10/02/02 15:38 Received: 10/03/02 16:40</b>									
Benzene	ND	2.4	ug/kg	00002288	2J12001	10/12/02	10/12/02	EPA 8260B	
Ethylbenzene	ND	2.4	"	"	"	"	"	"	
Toluene	ND	2.4	"	"	"	"	"	"	
Total Xylenes	ND	2.4	"	"	"	"	"	"	O-10
Surrogate: Dibromofluoromethane		104 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		85.2 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	60-140		"	"	"	"	
<b>S5 (MLJ0139-04) Soil Sampled: 10/02/02 15:45 Received: 10/03/02 16:40</b>									
Benzene	ND	1.4	ug/kg	0000190	2J12001	10/12/02	10/12/02	EPA 8260B	
Ethylbenzene	ND	1.4	"	"	"	"	"	"	
Toluene	ND	1.4	"	"	"	"	"	"	
Total Xylenes	ND	1.4	"	"	"	"	"	"	O-10
Surrogate: Dibromofluoromethane		104 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		87.0 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	60-140		"	"	"	"	

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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
<b>L2 (MLJ0139-05) Soil Sampled: 10/02/02 15:47 Received: 10/03/02 16:40</b>									
Benzene	ND	2.0	ug/kg	00000572	2J12001	10/12/02	10/12/02	EPA 8260B	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Total Xylenes	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		93.4 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	60-140		"	"	"	"	
<b>S7 (MLJ0139-08) Soil Sampled: 10/02/02 15:56 Received: 10/03/02 16:40</b>									
Benzene	ND	4.3	ug/kg	99998855	2J15012	10/15/02	10/15/02	EPA 8260B	
Ethylbenzene	ND	4.3	"	"	"	"	"	"	
Toluene	ND	4.3	"	"	"	"	"	"	
Total Xylenes	ND	4.3	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		95.8 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		87.0 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	60-140		"	"	"	"	
<b>L5 (MLJ0139-09) Soil Sampled: 10/02/02 15:57 Received: 10/03/02 16:40</b>									
Benzene	2.2	1.8	ug/kg	99999046	2J12001	10/12/02	10/13/02	EPA 8260B	
Ethylbenzene	2.7	1.8	"	"	"	"	"	"	
Toluene	2.4	1.8	"	"	"	"	"	"	
Total Xylenes	25	1.8	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		88.6 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	60-140		"	"	"	"	

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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
<b>L4-A (MLJ0139-10) Soil</b> Sampled: 10/02/02 16:15 Received: 10/03/02 16:40									
Benzene	5.2	4.1	ug/kg	99998092	2J15012	10/15/02	10/15/02	EPA 8260B	
Ethylbenzene	4.4	4.1	"	"	"	"	"	"	
Toluene	ND	4.1	"	"	"	"	"	"	
Total Xylenes	ND	4.1	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		92.0 %	60-140	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	60-140	"	"	"	"	"	
Surrogate: Toluene-d8		87.4 %	60-140	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	60-140	"	"	"	"	"	
<b>S8 (MLJ0139-11) Soil</b> Sampled: 10/02/02 16:20 Received: 10/03/02 16:40									
Benzene	ND	4.6	ug/kg	00002288	2J15012	10/15/02	10/16/02	EPA 8260B	
Ethylbenzene	64	4.6	"	"	"	"	"	"	
Toluene	57	4.6	"	"	"	"	"	"	
Total Xylenes	590	4.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		93.4 %	60-140	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	60-140	"	"	"	"	"	
Surrogate: Toluene-d8		82.4 %	60-140	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	60-140	"	"	"	"	"	
<b>L3 (MLJ0139-13) Soil</b> Sampled: 10/02/02 16:30 Received: 10/03/02 16:40									
Benzene	ND	4.0	ug/kg	00004196	2J15012	10/15/02	10/16/02	EPA 8260B	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
Total Xylenes	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		93.6 %	60-140	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	60-140	"	"	"	"	"	
Surrogate: Toluene-d8		87.6 %	60-140	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	60-140	"	"	"	"	"	



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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
<b>L8 (MLJ0139-17) Soil Sampled: 10/02/02 17:00 Received: 10/03/02 16:40</b>									
Benzene	ND	1.4	ug/kg		00001049(2)J12002	10/12/02	10/13/02	EPA 8260B	
Ethylbenzene	ND	1.4	"	"	"	"	"	"	
Toluene	ND	1.4	"	"	"	"	"	"	
Total Xylenes	ND	1.4	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	60-140		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.8 %	60-140		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		86.4 %	60-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	60-140		"	"	"	"	
<b>L12 (MLJ0139-18) Soil Sampled: 10/02/02 17:10 Received: 10/03/02 16:40</b>									
Benzene	ND	1.4	ug/kg		9999904(2)J12002	10/12/02	10/13/02	EPA 8260B	
Ethylbenzene	ND	1.4	"	"	"	"	"	"	
Toluene	ND	1.4	"	"	"	"	"	"	
Total Xylenes	ND	1.4	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.4 %	60-140		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.4 %	60-140		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		85.0 %	60-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	60-140		"	"	"	"	
<b>L11 (MLJ0139-20) Soil Sampled: 10/02/02 17:17 Received: 10/03/02 16:40</b>									
Benzene	ND	1.6	ug/kg		00000381(2)J12002	10/12/02	10/14/02	EPA 8260B	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
Toluene	ND	1.6	"	"	"	"	"	"	
Total Xylenes	ND	1.6	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96.2 %	60-140		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.2 %	60-140		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		86.2 %	60-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	60-140		"	"	"	"	



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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
<b>S11 (MLJ0139-21) Soil Sampled: 10/02/02 17:20 Received: 10/03/02 16:40</b>									
Benzene	ND	1.8	ug/kg	99999809	2J12002	10/12/02	10/14/02	EPA 8260B	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Total Xylenes	ND	1.8	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		96.0 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		87.2 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		86.0 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-140		"	"	"	"	
<b>S10 (MLJ0139-23) Soil Sampled: 10/02/02 17:25 Received: 10/03/02 16:40</b>									
Benzene	ND	2.2	ug/kg	0000381	2J12002	10/12/02	10/14/02	EPA 8260B	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
Toluene	ND	2.2	"	"	"	"	"	"	
Total Xylenes	ND	2.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		96.6 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		85.6 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	60-140		"	"	"	"	
<b>S9 (MLJ0139-25) Soil Sampled: 10/02/02 17:32 Received: 10/03/02 16:40</b>									
Benzene	ND	1.5	ug/kg	99999713	2J12002	10/12/02	10/14/02	EPA 8260B	
Ethylbenzene	ND	1.5	"	"	"	"	"	"	
Toluene	ND	1.5	"	"	"	"	"	"	
Total Xylenes	ND	1.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.8 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		91.4 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	60-140		"	"	"	"	





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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
<b>L13 (MLJ0139-26) Soil Sampled: 10/02/02 17:35 Received: 10/03/02 16:40</b>									
Benzene	ND	2.2	ug/kg	0000762	2J12002	10/12/02	10/14/02	EPA 8260B	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
Toluene	ND	2.2	"	"	"	"	"	"	
Total Xylenes	ND	2.2	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96.0 %	60-140		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	60-140		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		88.8 %	60-140		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	60-140		"	"	"	"	



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**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2J16001 - EPA 5030B [P/T]</b>										
<b>Blank (2J16001-BLK1)</b> Prepared & Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.0171		"	0.0200		85.5	64-145			
Surrogate: 4-Bromofluorobenzene	0.0175		"	0.0200		87.5	41-173			
<b>LCS (2J16001-BS1)</b> Prepared & Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	0.500		86.8	63-143			
Surrogate: a,a,a-Trifluorotoluene	0.0171		"	0.0200		85.5	64-145			
Surrogate: 4-Bromofluorobenzene	0.0222		"	0.0200		111	41-173			
<b>LCS (2J16001-BS2)</b> Prepared & Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	0.500		98.4	63-143			
Surrogate: a,a,a-Trifluorotoluene	0.0279		"	0.0200		140	64-145			
Surrogate: 4-Bromofluorobenzene	0.0134		"	0.0200		67.0	41-173			
<b>LCS Dup (2J16001-BSD1)</b> Prepared & Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	0.500		81.2	63-143	6.67	21	
Surrogate: a,a,a-Trifluorotoluene	0.0193		"	0.0200		96.5	64-145			
Surrogate: 4-Bromofluorobenzene	0.0220		"	0.0200		110	41-173			
<b>Matrix Spike (2J16001-MS1)</b> Source: MLJ0139-21 Prepared & Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	0.500	ND	93.0	63-143			
Surrogate: a,a,a-Trifluorotoluene	0.0235		"	0.0200		118	64-145			
Surrogate: 4-Bromofluorobenzene	0.0149		"	0.0200		74.5	41-173			
<b>Matrix Spike Dup (2J16001-MSD1)</b> Source: MLJ0139-21 Prepared & Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	0.500	ND	82.6	63-143	11.8	21	
Surrogate: a,a,a-Trifluorotoluene	0.0127		"	0.0200		63.5	64-145			QM-07
Surrogate: 4-Bromofluorobenzene	0.0151		"	0.0200		75.5	41-173			

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 10/23/02 13:55

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2J16040 - EPA 5030B [P/T]</b>										
<b>Blank (2J16040-BLK1)</b> Prepared & Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	1.0	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.169		"	0.200		84.5	64-145			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.200		60.5	41-173			
<b>LCS (2J16040-BS1)</b> Prepared & Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	3.61	1.0	mg/kg	5.00		72.2	63-143			
Surrogate: a,a,a-Trifluorotoluene	0.166		"	0.200		83.0	64-145			
Surrogate: 4-Bromofluorobenzene	0.177		"	0.200		88.5	41-173			
<b>LCS Dup (2J16040-BSD1)</b> Prepared & Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	4.04	1.0	mg/kg	5.00		80.8	63-143	11.2	21	
Surrogate: a,a,a-Trifluorotoluene	0.184		"	0.200		92.0	64-145			
Surrogate: 4-Bromofluorobenzene	0.206		"	0.200		103	41-173			
<b>Batch 2J17029 - EPA 5030B [P/T]</b>										
<b>Blank (2J17029-BLK1)</b> Prepared & Analyzed: 10/15/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.0163		"	0.0200		81.5	64-145			
Surrogate: 4-Bromofluorobenzene	0.0208		"	0.0200		104	41-173			
<b>LCS (2J17029-BS2)</b> Prepared: 10/15/02 Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	0.500		86.8	63-143			
Surrogate: a,a,a-Trifluorotoluene	0.0171		"	0.0200		85.5	64-145			
Surrogate: 4-Bromofluorobenzene	0.0221		"	0.0200		110	41-173			
<b>Matrix Spike (2J17029-MS1)</b> Source: MLI0584-02 Prepared: 10/15/02 Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	2.0	mg/kg	1.10	ND	57.8	63-143			QM-07
Surrogate: a,a,a-Trifluorotoluene	0.0188		"	0.0200		94.0	64-145			
Surrogate: 4-Bromofluorobenzene	0.0202		"	0.0200		101	41-173			



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Oakland CA, 94607

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

Reported:  
10/23/02 13:55

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2J17029 - EPA 5030B [P/T]</b>										
<b>Matrix Spike Dup (2J17029-MSD1)</b>										
Source: MLI0584-02 Prepared: 10/15/02 Analyzed: 10/16/02										
Gasoline Range Organics (C6-C10)	ND	2.0	mg/kg	1.10	ND	57.2	63-143	1.11	21	QM-07
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.0201		"	0.0200		100	64-145			
Surrogate: 4-Bromofluorobenzene	0.0222		"	0.0200		111	41-173			

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 Project Manager: Scott Robinson

 Reported:  
 10/23/02 13:55

### MTBE 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
<b>Batch 2J12001 - EPA 5035</b>										
<b>Blank (2J12001-BLK1)</b> <span style="float: right;">Prepared &amp; Analyzed: 10/12/02</span>										
Methyl tert-butyl ether	ND	0.50	ug/kg							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.99		"	5.00		99.8	60-140			
<b>LCS (2J12001-BS1)</b> <span style="float: right;">Prepared &amp; Analyzed: 10/12/02</span>										
Methyl tert-butyl ether	12.5	0.50	ug/kg	10.0		125	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.98		"	5.00		99.6	60-140			
<b>Matrix Spike (2J12001-MS1)</b> <span style="float: right;">Source: MLJ0336-05 Prepared &amp; Analyzed: 10/12/02</span>										
Methyl tert-butyl ether	56.0	2.3	ug/kg	45.9	ND	122	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.09		"	5.00		102	60-140			
<b>Matrix Spike Dup (2J12001-MSD1)</b> <span style="float: right;">Source: MLJ0336-05 Prepared &amp; Analyzed: 10/12/02</span>										
Methyl tert-butyl ether	55.9	2.3	ug/kg	45.9	ND	122	70-130	0.179	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.18		"	5.00		104	60-140			
<b>Batch 2J12002 - EPA 5035</b>										
<b>Blank (2J12002-BLK1)</b> <span style="float: right;">Prepared &amp; Analyzed: 10/12/02</span>										
Methyl tert-butyl ether	ND	0.50	ug/kg							O-09
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.33		"	5.00		107	60-140			
<b>LCS (2J12002-BS1)</b> <span style="float: right;">Prepared &amp; Analyzed: 10/12/02</span>										
Methyl tert-butyl ether	13.1	0.50	ug/kg	10.0		131	60-140			O-09
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.13		"	5.00		103	60-140			
<b>Matrix Spike (2J12002-MS1)</b> <span style="float: right;">Source: MLJ0139-26 Prepared: 10/12/02 Analyzed: 10/14/02</span>										
Methyl tert-butyl ether	80.0	2.4	ug/kg	48.5	22	120	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.47		"	5.00		89.4	60-140			



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10/23/02 13:55

**MTBE 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 2J12002 - EPA 5035**

<b>Matrix Spike Dup (2J12002-MSD1)</b>		Source: MLJ0139-26		Prepared: 10/12/02		Analyzed: 10/14/02				
Methyl tert-butyl ether	85.1	2.4	ug/kg	48.5	22	130	70-130	6.18	25	
Surrogate: 1,2-Dichloroethane-d4	4.40		"	5.00		88.0	60-140			

**Batch 2J15012 - EPA 5035**

<b>Blank (2J15012-BLK1)</b>		Prepared & Analyzed: 10/15/02								
Methyl tert-butyl ether	ND	0.50	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	4.39		"	5.00		87.8	60-140			

<b>LCS (2J15012-BS1)</b>		Prepared & Analyzed: 10/15/02								
Methyl tert-butyl ether	11.1	0.50	ug/kg	10.0		111	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.49		"	5.00		89.8	60-140			

<b>Matrix Spike (2J15012-MS1)</b>		Source: MLJ0414-01		Prepared & Analyzed: 10/15/02						
Methyl tert-butyl ether	49.4	2.0	ug/kg	41.0	ND	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	4.73		"	5.00		94.6	60-140			

<b>Matrix Spike Dup (2J15012-MSD1)</b>		Source: MLJ0414-01		Prepared & Analyzed: 10/15/02						
Methyl tert-butyl ether	50.0	2.1	ug/kg	42.7	ND	117	70-130	1.21	25	
Surrogate: 1,2-Dichloroethane-d4	4.78		"	5.00		95.6	60-140			

**Batch 2J17019 - EPA 5030B MeOH**

<b>Blank (2J17019-BLK1)</b>		Prepared: 10/16/02 Analyzed: 10/19/02								
Methyl tert-butyl ether	ND	0.025	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.00479		"	0.00500		95.8	60-140			



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**Reported:**  
10/23/02 13:55

**MTBE 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
<b>Batch 2J17019 - EPA 5030B MeOH</b>										
<b>LCS (2J17019-BS1)</b>					Prepared: 10/16/02 Analyzed: 10/19/02					
Methyl tert-butyl ether	0.729	0.025	mg/kg	1.00		72.9	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00446		"	0.00500		89.2	60-140			
<b>LCS Dup (2J17019-BSD1)</b>					Prepared: 10/16/02 Analyzed: 10/19/02					
Methyl tert-butyl ether	0.770	0.025	mg/kg	1.00		77.0	60-140	5.47	11	
Surrogate: 1,2-Dichloroethane-d4	0.00462		"	0.00500		92.4	60-140			



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URS Corporation 500 12th Street, Suite 100 Oakland CA, 94607	Project: ARCO #4931, Oakland, Ca Project Number: ARCO #4931, Oakland, CA Project Manager: Scott Robinson	Reported: 10/23/02 13:55
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**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
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**Batch 2J17019 - EPA 5030B MeOH**

<b>Blank (2J17019-BLK1)</b>		Prepared: 10/16/02 Analyzed: 10/19/02								
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Total Xylenes	ND	0.050	"							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.00479		"	0.00500		95.8	60-140			
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<b>LCS (2J17019-BS1)</b>		Prepared: 10/16/02 Analyzed: 10/19/02								
Benzene	1.31	0.050	mg/kg	1.25		105	60-140			
Toluene	1.42	0.050	"	1.25		114	60-140			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.00446		"	0.00500		89.2	60-140			
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<b>LCS Dup (2J17019-BSD1)</b>		Prepared: 10/16/02 Analyzed: 10/19/02								
Benzene	1.00	0.050	mg/kg	1.25		80.0	60-140	26.8	25	QR-02
Toluene	0.852	0.050	"	1.25		68.2	60-140	50.0	25	QR-02

<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.00462		"	0.00500		92.4	60-140			
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10/23/02 13:55

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Notes
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**Batch 2J12001 - EPA 5035**

**Blank (2J12001-BLK1)**

Prepared & Analyzed: 10/12/02

Benzene	ND	0.50	ug/kg							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Total Xylenes	ND	0.50	"							O-10

Surrogate: Dibromofluoromethane	5.23		"	5.00		105	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.99		"	5.00		99.8	60-140			
Surrogate: Toluene-d8	4.27		"	5.00		85.4	60-140			
Surrogate: 4-Bromofluorobenzene	5.20		"	5.00		104	60-140			

**LCS (2J12001-BS1)**

Prepared & Analyzed: 10/12/02

Benzene	10.6	0.50	ug/kg	10.0		106	60-140			
Toluene	9.90	0.50	"	10.0		99.0	60-140			
Surrogate: Dibromofluoromethane	5.27		"	5.00		105	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.98		"	5.00		99.6	60-140			
Surrogate: Toluene-d8	4.35		"	5.00		87.0	60-140			
Surrogate: 4-Bromofluorobenzene	5.28		"	5.00		106	60-140			

**Matrix Spike (2J12001-MS1)**

Source: MLJ0336-05

Prepared & Analyzed: 10/12/02

Benzene	47.9	2.3	ug/kg	45.9	ND	104	60-140			
Toluene	45.2	2.3	"	45.9	ND	98.5	60-140			
Surrogate: Dibromofluoromethane	5.56		"	5.00		111	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.09		"	5.00		102	60-140			
Surrogate: Toluene-d8	4.67		"	5.00		93.4	60-140			
Surrogate: 4-Bromofluorobenzene	5.44		"	5.00		109	60-140			

**Matrix Spike Dup (2J12001-MSD1)**

Source: MLJ0336-05

Prepared & Analyzed: 10/12/02

Benzene	45.8	2.3	ug/kg	45.9	ND	99.8	60-140	4.48	25	
Toluene	41.2	2.3	"	45.9	ND	89.8	60-140	9.26	25	
Surrogate: Dibromofluoromethane	5.28		"	5.00		106	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.18		"	5.00		104	60-140			
Surrogate: Toluene-d8	4.44		"	5.00		88.8	60-140			
Surrogate: 4-Bromofluorobenzene	5.23		"	5.00		105	60-140			

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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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 2J12002 - EPA 5035**
**Blank (2J12002-BLK1)**

Prepared &amp; Analyzed: 10/12/02

Benzene	ND	0.50	ug/kg							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Total Xylenes	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	5.12		"	5.00		102	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.33		"	5.00		107	60-140			
<i>Surrogate: Toluene-d8</i>	4.26		"	5.00		85.2	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.15		"	5.00		103	60-140			

**LCS (2J12002-BS1)**

Prepared &amp; Analyzed: 10/12/02

Benzene	10.5	0.50	ug/kg	10.0		105	60-140			
Toluene	9.39	0.50	"	10.0		93.9	60-140			
<i>Surrogate: Dibromofluoromethane</i>	5.34		"	5.00		107	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.13		"	5.00		103	60-140			
<i>Surrogate: Toluene-d8</i>	4.34		"	5.00		86.8	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.58		"	5.00		112	60-140			

**Matrix Spike (2J12002-MS1)**

Source: MLJ0139-26

Prepared: 10/12/02 Analyzed: 10/14/02

Benzene	42.0	2.4	ug/kg	48.5	ND	85.5	60-140			
Toluene	33.2	2.4	"	48.5	ND	68.5	60-140			
<i>Surrogate: Dibromofluoromethane</i>	5.05		"	5.00		101	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.47		"	5.00		89.4	60-140			
<i>Surrogate: Toluene-d8</i>	4.60		"	5.00		92.0	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.99		"	5.00		99.8	60-140			

**Matrix Spike Dup (2J12002-MSD1)**

Source: MLJ0139-26

Prepared: 10/12/02 Analyzed: 10/14/02

Benzene	34.6	2.4	ug/kg	48.5	ND	70.2	60-140	19.3	25	
Toluene	28.5	2.4	"	48.5	ND	58.8	60-140	15.2	25	QM-07
<i>Surrogate: Dibromofluoromethane</i>	4.92		"	5.00		98.4	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.40		"	5.00		88.0	60-140			
<i>Surrogate: Toluene-d8</i>	4.36		"	5.00		87.2	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.61		"	5.00		92.2	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 2J15012 - EPA 5035**

**Blank (2J15012-BLK1)**

Prepared & Analyzed: 10/15/02

Benzene	ND	0.50	ug/kg							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Total Xylenes	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	4.65		"	5.00		93.0	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.39		"	5.00		87.8	60-140			
<i>Surrogate: Toluene-d8</i>	4.18		"	5.00		83.6	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.07		"	5.00		101	60-140			

**LCS (2J15012-BS1)**

Prepared & Analyzed: 10/15/02

Benzene	10.4	0.50	ug/kg	10.0		104	60-140			
Toluene	10.2	0.50	"	10.0		102	60-140			
<i>Surrogate: Dibromofluoromethane</i>	4.69		"	5.00		93.8	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.49		"	5.00		89.8	60-140			
<i>Surrogate: Toluene-d8</i>	4.31		"	5.00		86.2	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.19		"	5.00		104	60-140			

**Matrix Spike (2J15012-MS1)**

Source: MLJ0414-01

Prepared & Analyzed: 10/15/02

Benzene	41.4	2.0	ug/kg	41.0	ND	101	60-140			
Toluene	40.0	2.0	"	41.0	ND	97.6	60-140			
<i>Surrogate: Dibromofluoromethane</i>	4.99		"	5.00		99.8	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.73		"	5.00		94.6	60-140			
<i>Surrogate: Toluene-d8</i>	4.43		"	5.00		88.6	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.88		"	5.00		97.6	60-140			

**Matrix Spike Dup (2J15012-MSD1)**

Source: MLJ0414-01

Prepared & Analyzed: 10/15/02

Benzene	40.5	2.1	ug/kg	42.7	ND	94.8	60-140	2.20	25	
Toluene	38.8	2.1	"	42.7	ND	90.9	60-140	3.05	25	
<i>Surrogate: Dibromofluoromethane</i>	5.08		"	5.00		102	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.78		"	5.00		95.6	60-140			
<i>Surrogate: Toluene-d8</i>	4.59		"	5.00		91.8	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.97		"	5.00		99.4	60-140			

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10/23/02 13:55

### Notes and Definitions

- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- HC-21 Chromatogram Pattern: Gasoline C6-C10
- HT-04 This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
- O-09 The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
- O-09a The quality control results were outside the control limits, however the sample was not re-extracted due to hold time constraints. This should be considered in evaluating the results for their intended purpose.
- O-10 The result was reported with a possible low bias due to the continuing calibration verification falling outside the acceptance criteria.
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- 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** Station 4931-731 West Macarthur Blvd, Oakland, CA 94609  
**Business Unit** BP West Coast Products LLC  
**BP Laboratory Contract Number:** 4 0 0 6 2 1 1 2 4

Date 10/2/02

**Requested Due Date:**  
 (mm/dd/yy - 2 weeks from sampling date)

On-site Time: <u>1500</u>	Temp: <u>81°</u>
Off-site Time: <u>1500</u>	Temp: <u>80°</u>
Sky Conditions: <u>clear</u>	
Meteorological Events: <u>none</u>	
Wind Speed: <u>3</u>	Direction: <u>N</u>

<b>Send To:</b>	BP/GEM Facility No.: Station 4931	Consultant: URS Oakland
Lab Name: Sequoia Analytical	BP/GEM Facility Address: 731 West Macarthur Blvd, Oakland, CA 94609	Address: 500 12th Street, #200
Lab Address: 885 Juris Drive	Site ID No. Station 4931	Oakland, CA 94607
Morgan Hill, CA 95037	California Global ID #:	e-mail EDD: Henry.Barrionog@URSCorp.com
	BP/GEM PM Contact: Paul Supple	Consultant Project No.: 38485938
Lab PM: Latonya Pell	Address: P.O. Box 6549, Morgan, CA 94570	Consultant Tele/Fax: 408.297.9585/408.297.6962
Tele/Fax: 408-782-8154/408-782-6508	Tele/Fax: 925-299-8891/925-299-8872	Consultant PM: Scott Robinson
Report Type & QC Level: Normal		Invoice to: BP West Coast Products
BP/GEM Account No.:		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	
				Bolt/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TFH-g(8015)	BTEX (8260)	MTBE (8260)		
1	31	S1	3:35	X				MLJ0139	1	X				X	X	X		
2		L1	3:38	X				02	1	X								
3		S2	3:41	X				03	1	X								
4		S5	3:45	X				04	1	X								
5		L2	3:47	X				05	1	X								
6		S6	3:51	X				06	1	X								
7		L4	3:52	X				07	1	X								
8		L5	3:56	X				08	1	X								
9		L5	3:57	X				09	1	X								
10		L4-A	4:15	X				10	1	X				X	X	X		

Sampler's Name: <u>Todd Townsend</u>	Relinquished By / Affiliation: <u>Todd Townsend</u>	Date: <u>10/2/02</u>	Time: <u>-</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>10/3/02</u>	Time: <u>15:40</u>
Sampler's Company: <u>URS Oakland</u>						
Shipment Date: <u>10/3/02</u>						
Shipment Method: <u>Hand Deliver</u>						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No x      Temperature Blank Yes No x      Cooler Temperature on Receipt + °F (C)      Trip Blank Yes No x



### Chain of Custody Record

Project Name Station 4931-731 West MacArthur Blvd, Oakland, CA 94609  
 Business Unit BP West Coast Products LLC  
 BP Laboratory Contract Number: 4 0 0 6 2 1 1 2 4

Date: 10/2/02

Requested Due Date:  
 (mm/dd/yy - 2 weeks from sampling date)

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

Send To:	BP/GEM Facility No.: <u>Station 4931</u>	Consultant: <u>URS Oakland</u>
Lab Name: <u>Sequoia Analytical</u>	BP/GEM Facility Address: <u>731 West MacArthur Blvd, Oakland, CA 94609</u>	Address: <u>500 12th Street, #200</u>
Lab Address: <u>885 Jarvis Drive</u>	Site ID No.: <u>Station 4931</u>	<u>Oakland, CA 94607</u>
<u>Morgan Hill, CA 95037</u>	California Global ID #:	e-mail EDD: <u>Henry.Barrientos@URSCoro.com</u>
Lab PM: <u>Lutonya Pelt</u>	BP/GEM PM Contact: <u>Paul Supple</u>	Consultant Project No.: <u>38485938</u>
Tele/Fax: <u>408-782-8154/408-782-6308</u>	Address: <u>P.O. Box 6549, Moraga, CA 94570</u>	Consultant Tele/Fax: <u>408.297.9585/408.297.6962</u>
Report Type & QC Level: <u>Normal</u>	Tele/Fax: <u>925-299-8891/925-299-8872</u>	Consultant PM: <u>Scott Robinson</u>
BP/GEM Account No.:		Invoice to: <u>BP West Coast Products</u>
Lab Bottle Order No.:		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				
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TPH-g(8015)	BTX-g(8260)	MTBE-g(8260)								
1		✓ S8	4:20	X				ML0139	1	X					X	X	X							
2		✓ L6	4:26					12	1															
3		✓ L3	4:30					13	1															
4		✓ L3A	4:33					14	1															
5		✓ S4	4:35					15	1															
6		✓ L7	4:55					16	1															
7		✓ L8	5:00					17	1															
8		✓ L12	5:10					18	1															
9		✓ S12	5:13					19	1					X	X	X								
10		✓ L11	5:17	X				20	1	X				X	X	X								

Sampler's Name: <u>TRAP Tommell</u>	Relinquished By / Affiliation: <u>Todd P. Tommell</u>	Date: <u>10/3/02</u>	Time: <u>1640</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>10/3/02</u>	Time: <u>1640</u>
Sampler's Company: <u>URS Oakland</u>						
Shipment Date: <u>10/3/02</u>						
Shipment Method: <u>Hand Deliver</u>						
Shipment Tracking No.:						

Special Instructions:

Custody Seals In Place Yes  No  Temperature Blank Yes  No  Cooler Temperature on Receipt  °F/C Trip Blank Yes  No



### Chain of Custody Record

Project Name Station 4931-731 West MacArthur Blvd. Oakland, CA 94609  
 Business Unit BP West Coast Products LLC  
 BP Laboratory Contract Number: 4 0 0 6 2 1 1 2 4

Date: 10/3/02

Requested Due Date:  
 (mm/dd/yy - 2 weeks from sampling date)

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

Send To:	BP/GEM Facility No.: <u>Station 4931</u>	Consultant: <u>URS Oakland</u>
Lab Name: <u>Sageona Analytical</u>	BP/GEM Facility Address: <u>731 West MacArthur Blvd. Oakland, CA 94609</u>	Address: <u>500 12th Street #200</u>
Lab Address: <u>885 Jarvis Drive</u>	Site ID No. <u>Station 4931</u>	<u>Oakland, CA 94607</u>
<u>Morgan Hill, CA 95037</u>	California Global ID #:	e-mail EDD: <u>Henry.Barrantos@URSCorp.com</u>
	BP/GEM PM Contact: <u>Paul Scoble</u>	Consultant Project No.: <u>38485938</u>
Lab PM: <u>Lafarra Peit</u>	Address: <u>P.O. Box 6549, Morgan, CA 94570</u>	Consultant Tele/Fax: <u>408.297.9585/408.297.6962</u>
Tele/Fax: <u>408-782-8154/408-782-6308</u>	Tele/Fax: <u>925-299-8391/925-299-8372</u>	Consultant PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>Normal</u>		Invoice to: <u>BP West Coast Products</u>
BP/GEM Account No.:		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
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TEPH (8015)	PELX (8260)	
1	<u>S11</u>	<u>L10</u>	<u>5:20</u>	X				<u>MLJ0139</u>	1	X			X	X	X	
2		<u>L10</u>	<u>5:23</u>	X					1							
3		<u>S10</u>	<u>5:25</u>	X					1							
4		<u>L9</u>	<u>5:30</u>	X					1							
5		<u>S9</u>	<u>5:32</u>	X					1				V	V	V	
6		<u>L13</u>	<u>5:35</u>	X					1	X			X	X	X	
7																
8																
9																
10																

Sampler's Name: <u>7000 Tammell</u>	Relinquished By / Affiliation: <u>Todd Tammell</u>	Date: <u>10/3/02</u>	Time: <u>16:40</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>10/3/02</u>	Time: <u>16:40</u>
Sampler's Company: <u>URS Oakland</u>						
Shipment Date: <u>10/3/02</u>						
Shipment Method: <u>Hand Driver</u>						
Shipment Tracking No.:						
Special Instructions:						

Custody Seals In Place Yes No x Temperature Blank Yes No x Cooler Temperature on Receipt F/C Trip Blank Yes No x



**Sequoia  
Analytical**

885 Jarvis Drive  
Morgan Hill, CA 95037  
(408) 776-9600  
FAX (408) 782-6308  
[www.sequoialabs.com](http://www.sequoialabs.com)

21 October, 2002

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

RE: ARCO #4931, Oakland, Ca  
Sequoia Report: MLJ0172

Enclosed are the results of analyses for samples received by the laboratory on 10/04/02 19:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt  
Project Manager

CA ELAP Certificate #1210





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

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

**Reported:**  
10/21/02 19:43

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pile A	MLJ0172-01	Soil	10/04/02 10:00	10/04/02 19:15
Pile B	MLJ0172-02	Soil	10/04/02 10:02	10/04/02 19:15
Pile C	MLJ0172-03	Soil	10/04/02 10:05	10/04/02 19:15
Pile D	MLJ0172-04	Soil	10/04/02 10:07	10/04/02 19:15

Sequoia Analytical - Morgan Hill

Latonya Pelt, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

**Reported:**  
10/21/02 19:43

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Pile A (MLJ0172-01) Soil</b> Sampled: 10/04/02 10:00 Received: 10/04/02 19:15									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J18004	10/18/02	10/18/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		118 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	41-173		"	"	"	"	
<b>Pile B (MLJ0172-02) Soil</b> Sampled: 10/04/02 10:02 Received: 10/04/02 19:15									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J18004	10/18/02	10/18/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		100 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	41-173		"	"	"	"	
<b>Pile C (MLJ0172-03) Soil</b> Sampled: 10/04/02 10:05 Received: 10/04/02 19:15									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J18004	10/18/02	10/18/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		107 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	41-173		"	"	"	"	
<b>Pile D (MLJ0172-04) Soil</b> Sampled: 10/04/02 10:07 Received: 10/04/02 19:15									
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1	2J18004	10/18/02	10/18/02	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		90.5 %	64-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	41-173		"	"	"	"	



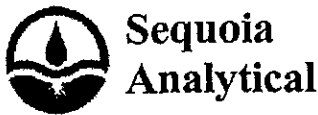
URS Corporation  
500 12th Street, Suite 100  
Oakland CA, 94607

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

**Reported:**  
10/21/02 19:43

**Motor Oil Hydrocarbons (C16-36) by 8015B modified  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Pile A (MLJ0172-01) Soil</b> Sampled: 10/04/02 10:00 Received: 10/04/02 19:15									
Motor Oil (C16-C36)	23	10	mg/kg	1	2J07031	10/07/02	10/09/02	8015Bm	HC-12
Surrogate: n-Octacosane		122 %	0-373		"	"	"	"	
<b>Pile B (MLJ0172-02) Soil</b> Sampled: 10/04/02 10:02 Received: 10/04/02 19:15									
Motor Oil (C16-C36)	ND	10	mg/kg	1	2J07031	10/07/02	10/08/02	8015Bm	
Surrogate: n-Octacosane		94.6 %	0-373		"	"	"	"	
<b>Pile C (MLJ0172-03) Soil</b> Sampled: 10/04/02 10:05 Received: 10/04/02 19:15									
Motor Oil (C16-C36)	74	40	mg/kg	4	2J07031	10/07/02	10/08/02	8015Bm	HC-12
Surrogate: n-Octacosane		179 %	0-373		"	"	"	"	
<b>Pile D (MLJ0172-04) Soil</b> Sampled: 10/04/02 10:07 Received: 10/04/02 19:15									
Motor Oil (C16-C36)	38	10	mg/kg	1	2J07031	10/07/02	10/08/02	8015Bm	HC-12
Surrogate: n-Octacosane		137 %	0-373		"	"	"	"	



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

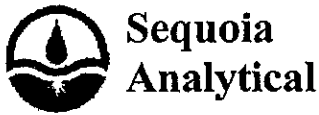
Project: ARCO #4931, Oakland, Ca  
 Project Number: ARCO #4931, Oakland, CA  
 Project Manager: Scott Robinson

Reported:  
 10/21/02 19:43

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Pile A (MLJ0172-01) Soil Sampled: 10/04/02 10:00 Received: 10/04/02 19:15</b>									
Mercury	0.044	0.0050	mg/kg	1	2J09021	10/09/02	10/09/02	EPA 7471A	
Antimony	ND	5.0	"	"	2J09013	10/09/02	10/09/02	EPA 6010B	
Arsenic	7.1	5.0	"	"	"	"	10/09/02	"	
Barium	280	5.0	"	"	"	"	10/09/02	"	
Beryllium	0.40	0.10	"	"	"	"	"	"	
Cadmium	ND	0.20	"	"	"	"	"	"	
Chromium	43	5.0	"	"	"	"	"	"	
Cobalt	13	0.50	"	"	"	"	"	"	
Copper	14	4.0	"	"	"	"	"	"	
Lead	8.7	5.0	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	40	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	0.10	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	33	5.0	"	"	"	"	"	"	
Zinc	37	5.0	"	"	"	"	"	"	

<b>Pile B (MLJ0172-02) Soil Sampled: 10/04/02 10:02 Received: 10/04/02 19:15</b>									
Mercury	0.046	0.0050	mg/kg	1	2J09021	10/09/02	10/09/02	EPA 7471A	
Antimony	ND	5.0	"	"	2J09013	10/09/02	10/09/02	EPA 6010B	
Arsenic	6.5	5.0	"	"	"	"	"	"	
Barium	160	5.0	"	"	"	"	"	"	
Beryllium	0.51	0.10	"	"	"	"	"	"	
Cadmium	0.26	0.20	"	"	"	"	"	"	
Chromium	33	5.0	"	"	"	"	"	"	
Cobalt	7.3	0.50	"	"	"	"	"	"	
Copper	24	4.0	"	"	"	"	"	"	
Lead	7.2	5.0	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	58	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	0.10	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	33	5.0	"	"	"	"	"	"	
Zinc	60	5.0	"	"	"	"	"	"	



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

Project: ARCO #4931, Oakland, Ca  
 Project Number: ARCO #4931, Oakland, CA  
 Project Manager: Scott Robinson

Reported:  
 10/21/02 19:43

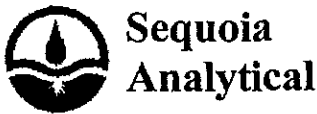
**Total Metals by EPA 6000/7000 Series Methods**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Pile C (MLJ0172-03) Soil</b> <b>Sampled: 10/04/02 10:05</b> <b>Received: 10/04/02 19:15</b>										
Mercury	0.020	0.0050		mg/kg	1	2J09021	10/09/02	10/09/02	EPA 7471A	
Antimony	ND	5.0		"	"	2J09013	10/09/02	10/09/02	EPA 6010B	
Arsenic	5.4	5.0		"	"	"	"	"	"	
Barium	92	5.0		"	"	"	"	"	"	
Beryllium	0.20	0.10		"	"	"	"	"	"	
Cadmium	ND	0.20		"	"	"	"	"	"	
Chromium	27	5.0		"	"	"	"	"	"	
Cobalt	5.3	0.50		"	"	"	"	"	"	
Copper	9.2	4.0		"	"	"	"	"	"	
Lead	ND	5.0		"	"	"	"	"	"	
Molybdenum	ND	1.0		"	"	"	"	"	"	
Nickel	25	5.0		"	"	"	"	"	"	
Selenium	ND	5.0		"	"	"	"	"	"	
Silver	ND	0.10		"	"	"	"	"	"	
Thallium	ND	5.0		"	"	"	"	"	"	
Vanadium	29	5.0		"	"	"	"	"	"	
Zinc	37	5.0		"	"	"	"	"	"	

<b>Pile D (MLJ0172-04) Soil</b> <b>Sampled: 10/04/02 10:07</b> <b>Received: 10/04/02 19:15</b>										
Mercury	0.042	0.0050		mg/kg	1	2J09021	10/09/02	10/09/02	EPA 7471A	
Antimony	ND	5.0		"	"	2J09013	10/09/02	10/09/02	EPA 6010B	
Arsenic	ND	5.0		"	"	"	"	"	"	
Barium	440	5.0		"	"	"	"	"	"	
Beryllium	0.36	0.10		"	"	"	"	"	"	
Cadmium	0.20	0.20		"	"	"	"	"	"	
Chromium	43	5.0		"	"	"	"	"	"	
Cobalt	6.2	0.50		"	"	"	"	"	"	
Copper	14	4.0		"	"	"	"	"	"	
Lead	12	5.0		"	"	"	"	"	"	
Molybdenum	ND	1.0		"	"	"	"	"	"	
Nickel	32	5.0		"	"	"	"	"	"	
Selenium	ND	5.0		"	"	"	"	"	"	
Silver	ND	0.10		"	"	"	"	"	"	
Thallium	ND	5.0		"	"	"	"	"	"	
Vanadium	41	5.0		"	"	"	"	"	"	
Zinc	42	5.0		"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

Reported:  
10/21/02 19:43

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Pile A (MLJ0172-01) Soil** Sampled: 10/04/02 10:00 Received: 10/04/02 19:15

Benzene	ND	2.5	ug/kg	5	2J08008	10/07/02	10/08/02	EPA 8260B	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Total Xylenes	ND	2.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		92.8 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	60-140		"	"	"	"	

**Pile B (MLJ0172-02) Soil** Sampled: 10/04/02 10:02 Received: 10/04/02 19:15

Benzene	ND	2.5	ug/kg	5	2J08008	10/07/02	10/08/02	EPA 8260B	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Total Xylenes	ND	2.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		112 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		90.8 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	60-140		"	"	"	"	

**Pile C (MLJ0172-03) Soil** Sampled: 10/04/02 10:05 Received: 10/04/02 19:15

Benzene	ND	2.5	ug/kg	5	2J08008	10/07/02	10/08/02	EPA 8260B	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Total Xylenes	ND	2.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		84.4 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.4 %	60-140		"	"	"	"	

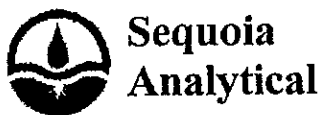


885 Jarvis Drive  
 Morgan Hill, CA 95037  
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 FAX (408) 782-6308  
 www.sequoialabs.com

URS Corporation 500 12th Street, Suite 100 Oakland CA, 94607	Project: ARCO #4931, Oakland, Ca Project Number: ARCO #4931, Oakland, CA Project Manager: Scott Robinson	Reported: 10/21/02 19:43
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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
<b>Pile D (MLJ0172-04) Soil</b> Sampled: 10/04/02 10:07 Received: 10/04/02 19:15									
Benzene	ND	2.5	ug/kg	5	2J08008	10/07/02	10/08/02	EPA 8260B	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Total Xylenes	ND	2.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	60-140		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	60-140		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	60-140		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	60-140		"	"	"	"	



URS Corporation 500 12th Street, Suite 100 Oakland CA, 94607	Project: ARCO #4931, Oakland, Ca Project Number: ARCO #4931, Oakland, CA Project Manager: Scott Robinson	Reported: 10/21/02 19:43
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**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2J18004 - EPA 5030B [P/T]</b>										
<b>Blank (2J18004-BLK1)</b> Prepared & Analyzed: 10/18/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.0192		"	0.0200		96.0	64-145			
Surrogate: 4-Bromofluorobenzene	0.0155		"	0.0200		77.5	41-173			
<b>LCS (2J18004-BS2)</b> Prepared & Analyzed: 10/18/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	0.500		87.0	63-143			
Surrogate: a,a,a-Trifluorotoluene	0.0263		"	0.0200		132	64-145			
Surrogate: 4-Bromofluorobenzene	0.0191		"	0.0200		95.5	41-173			
<b>Matrix Spike (2J18004-MS1)</b> Source: MLJ0208-01 Prepared & Analyzed: 10/18/02										
Gasoline Range Organics (C6-C10)	0.912	0.50	mg/kg	1.10	ND	82.9	63-143			
Surrogate: a,a,a-Trifluorotoluene	0.0268		"	0.0200		134	64-145			
Surrogate: 4-Bromofluorobenzene	0.00		"	0.0200			41-173			QM-07
<b>Matrix Spike Dup (2J18004-MSD1)</b> Source: MLJ0208-01 Prepared: 10/18/02 Analyzed: 10/19/02										
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg	1.10	ND	41.5	63-143	66.5	21	QM-07
Surrogate: a,a,a-Trifluorotoluene	0.0183		"	0.0200		91.5	64-145			QM-07
Surrogate: 4-Bromofluorobenzene	0.00		"	0.0200			41-173			QM-07





URS Corporation 500 12th Street, Suite 100 Oakland CA, 94607	Project: ARCO #4931, Oakland, Ca Project Number: ARCO #4931, Oakland, CA Project Manager: Scott Robinson	Reported: 10/21/02 19:43
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**Motor Oil Hydrocarbons (C16-36) by 8015B modified - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2J07031 - EPA 3550B</b>										
<b>Blank (2J07031-BLK1)</b> Prepared: 10/07/02 Analyzed: 10/09/02										
Diesel Range Organics (C10-C28)	ND	1.0	mg/kg							
Motor Oil (C16-C36)	ND	10	"							
Surrogate: n-Octacosane	1.51		"	1.67		90.4	0-373			
<b>LCS (2J07031-BS1)</b> Prepared: 10/07/02 Analyzed: 10/09/02										
Diesel Range Organics (C10-C28)	18.8	1.0	mg/kg	16.7		113	56-131			
Surrogate: n-Octacosane	1.70		"	1.67		102	0-373			
<b>LCS Dup (2J07031-BSD1)</b> Prepared: 10/07/02 Analyzed: 10/09/02										
Diesel Range Organics (C10-C28)	19.3	1.0	mg/kg	16.7		116	56-131	2.62	33	
Surrogate: n-Octacosane	1.64		"	1.67		98.2	0-373			



URS Corporation  
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Oakland CA, 94607

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

Reported:  
10/21/02 19:43

**Total Metals by EPA 6000/7000 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 2J09013 - EPA 3050B**

**Blank (2J09013-BLK1)**

Prepared & Analyzed: 10/09/02

Antimony	ND	5.0	mg/kg							
Arsenic	ND	5.0	"							
Barium	ND	5.0	"							
Beryllium	ND	0.10	"							
Cadmium	ND	0.20	"							
Chromium	ND	5.0	"							
Cobalt	ND	0.50	"							
Copper	ND	4.0	"							
Lead	ND	5.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	5.0	"							
Selenium	ND	5.0	"							
Silver	ND	0.10	"							
Thallium	ND	5.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	5.0	"							

**LCS (2J09013-BS1)**

Prepared & Analyzed: 10/09/02

Antimony	47.0	5.0	mg/kg	50.0		94.0	80-120
Arsenic	49.2	5.0	"	50.0		98.4	80-120
Barium	49.4	5.0	"	50.0		98.8	80-120
Beryllium	50.4	0.10	"	50.0		101	80-120
Cadmium	49.4	0.20	"	50.0		98.8	80-120
Chromium	49.7	5.0	"	50.0		99.4	80-120
Cobalt	50.2	0.50	"	50.0		100	80-120
Copper	49.7	4.0	"	50.0		99.4	80-120
Lead	50.8	5.0	"	50.0		102	80-120
Molybdenum	50.2	1.0	"	50.0		100	80-120
Nickel	49.9	5.0	"	50.0		99.8	80-120
Selenium	51.0	5.0	"	50.0		102	80-120
Silver	49.9	0.10	"	50.0		99.8	80-120
Thallium	49.5	5.0	"	50.0		99.0	80-120
Vanadium	49.9	5.0	"	50.0		99.8	80-120
Zinc	50.7	5.0	"	50.0		101	80-120

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Oakland CA, 94607

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

**Reported:**  
10/21/02 19:43

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2J09013 - EPA 3050B</b>										
<b>Matrix Spike (2J09013-MS1) Source: MLJ0172-01 Prepared &amp; Analyzed: 10/09/02</b>										
Antimony	19.7	5.0	mg/kg	50.0	ND	39.4	80-120			QM-07
Arsenic	50.4	5.0	"	50.0	7.1	86.6	80-120			
Barium	217	5.0	"	50.0	280	-126	80-120			QM-07
Beryllium	46.8	0.10	"	50.0	0.40	92.8	80-120			
Cadmium	44.4	0.20	"	50.0	ND	88.5	80-120			
Chromium	90.3	5.0	"	50.0	43	94.6	80-120			
Cobalt	55.6	0.50	"	50.0	13	85.2	80-120			
Copper	59.3	4.0	"	50.0	14	90.6	80-120			
Lead	52.0	5.0	"	50.0	8.7	86.6	80-120			
Molybdenum	41.6	1.0	"	50.0	ND	83.2	80-120			
Nickel	81.7	5.0	"	50.0	40	83.4	80-120			
Selenium	43.7	5.0	"	50.0	ND	87.4	80-120			
Silver	44.2	0.10	"	50.0	ND	88.4	80-120			
Thallium	45.3	5.0	"	50.0	ND	90.6	80-120			
Vanadium	81.6	5.0	"	50.0	33	97.2	80-120			
Zinc	81.6	5.0	"	50.0	37	89.2	80-120			

<b>Matrix Spike Dup (2J09013-MSD1) Source: MLJ0172-01 Prepared &amp; Analyzed: 10/09/02</b>										
Antimony	18.4	5.0	mg/kg	50.0	ND	36.8	80-120	6.82	20	QM-07
Arsenic	50.2	5.0	"	50.0	7.1	86.2	80-120	0.398	20	
Barium	200	5.0	"	50.0	280	-160	80-120	8.15	20	QM-07
Beryllium	47.9	0.10	"	50.0	0.40	95.0	80-120	2.32	20	
Cadmium	45.3	0.20	"	50.0	ND	90.3	80-120	2.01	20	
Chromium	94.3	5.0	"	50.0	43	103	80-120	4.33	20	
Cobalt	57.8	0.50	"	50.0	13	89.6	80-120	3.88	20	
Copper	62.2	4.0	"	50.0	14	96.4	80-120	4.77	20	
Lead	54.2	5.0	"	50.0	8.7	91.0	80-120	4.14	20	
Molybdenum	41.9	1.0	"	50.0	ND	83.8	80-120	0.719	20	
Nickel	84.9	5.0	"	50.0	40	89.8	80-120	3.84	20	
Selenium	42.8	5.0	"	50.0	ND	85.6	80-120	2.08	20	
Silver	45.3	0.10	"	50.0	ND	90.6	80-120	2.46	20	
Thallium	44.9	5.0	"	50.0	ND	89.8	80-120	0.887	20	
Vanadium	86.5	5.0	"	50.0	33	107	80-120	5.83	20	
Zinc	83.8	5.0	"	50.0	37	93.6	80-120	2.66	20	



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Project: ARCO #4931, Oakland, Ca  
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Project Manager: Scott Robinson

**Reported:**  
10/21/02 19:43

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2J09021 - EPA 7471A</b>										
<b>Blank (2J09021-BLK1)</b> Prepared & Analyzed: 10/09/02										
Mercury	ND	0.0050	mg/kg							
<b>LCS (2J09021-BS1)</b> Prepared & Analyzed: 10/09/02										
Mercury	0.599	0.0050	mg/kg	0.667		89.8	95-107			
<b>Matrix Spike (2J09021-MS1)</b> Source: MLJ0172-01 Prepared & Analyzed: 10/09/02										
Mercury	0.642	0.0050	mg/kg	0.667	0.044	89.7	95-105			
<b>Matrix Spike Dup (2J09021-MSD1)</b> Source: MLJ0172-01 Prepared & Analyzed: 10/09/02										
Mercury	0.624	0.0050	mg/kg	0.667	0.044	87.0	95-105	2.84	20	



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Project Manager: Scott Robinson

Reported:  
10/21/02 19:43

**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
<b>Batch 2J08008 - EPA 5035</b>										
<b>Blank (2J08008-BLK1)</b> Prepared: 10/07/02 Analyzed: 10/08/02										
Benzene	ND	2.5	ug/kg							
Ethylbenzene	ND	2.5	"							
Toluene	ND	2.5	"							
Total Xylenes	ND	2.5	"							
Surrogate: Dibromofluoromethane	5.72		"	5.00		114	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.69		"	5.00		114	60-140			
Surrogate: Toluene-d8	4.64		"	5.00		92.8	60-140			
Surrogate: 4-Bromofluorobenzene	5.00		"	5.00		100	60-140			
<b>LCS (2J08008-BS1)</b> Prepared & Analyzed: 10/07/02										
Benzene	10.9	0.50	ug/kg	10.0		109	60-140			
Toluene	9.93	0.50	"	10.0		99.3	60-140			
Surrogate: Dibromofluoromethane	5.63		"	5.00		113	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.51		"	5.00		110	60-140			
Surrogate: Toluene-d8	4.54		"	5.00		90.8	60-140			
Surrogate: 4-Bromofluorobenzene	5.10		"	5.00		102	60-140			
<b>Matrix Spike (2J08008-MS1)</b> Source: MLJ0208-08 Prepared: 10/07/02 Analyzed: 10/08/02										
Benzene	10.5	0.50	ug/kg	10.0	ND	105	60-140			
Toluene	9.37	0.50	"	10.0	ND	93.7	60-140			
Surrogate: Dibromofluoromethane	5.33		"	5.00		107	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.74		"	5.00		94.8	60-140			
Surrogate: Toluene-d8	4.70		"	5.00		94.0	60-140			
Surrogate: 4-Bromofluorobenzene	5.82		"	5.00		116	60-140			
<b>Matrix Spike Dup (2J08008-MSD1)</b> Source: MLJ0208-08 Prepared: 10/07/02 Analyzed: 10/08/02										
Benzene	10.7	0.50	ug/kg	10.0	ND	107	60-140	1.89	25	
Toluene	9.89	0.50	"	10.0	ND	98.9	60-140	5.40	25	
Surrogate: Dibromofluoromethane	5.49		"	5.00		110	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.77		"	5.00		95.4	60-140			
Surrogate: Toluene-d8	5.17		"	5.00		103	60-140			
Surrogate: 4-Bromofluorobenzene	5.74		"	5.00		115	60-140			

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Project: ARCO #4931, Oakland, Ca  
Project Number: ARCO #4931, Oakland, CA  
Project Manager: Scott Robinson

**Reported:**  
10/21/02 19:43

### Notes and Definitions

- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- 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 Station 4931-731 West Macarthur Blvd. Oakland, CA 94609  
 Business Unit BP West Coast Products LLC

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

Requested Due Date: MUS 0172  
 (mm/dd/yy - 2 weeks from sampling date)

Date: 10/4/02

On-site Time: <u>0930</u>	Temp: <u>65</u>
Off-site Time: <u>1030</u>	Temp: <u>71</u>
Sky Conditions: <u>clear</u>	
Meteorological Events: <u>none</u>	
Wind Speed: <u>7</u>	Direction: <u>N</u>

Send To:	BP/GEM Facility No.: <u>Station 4931</u>	Consultant: <u>URS Oakland</u>
Lab Name: <u>Sequon Analytical</u>	BP/GEM Facility Address: <u>731 West Macarthur Blvd. Oakland, CA 94609</u>	Address: <u>500 12th Street, #200</u>
Lab Address: <u>885 Jarvis Drive</u>	Site ID No.: <u>Station 4931</u>	<u>Oakland, CA 94607</u>
<u>Morgan Hill, CA 95037</u>	California Global ID #:	e-mail EDD: <u>Henry.Burrientes@URSCorp.com</u>
	BP/GEM PM Contact: <u>Paul Supple</u>	Consultant Project No.: <u>38483938</u>
Lab PM: <u>Latonya Pelt</u>	Address: <u>P.O. Box 6549, Morgan, CA 94570</u>	Consultant Tele/Fax: <u>408.297.9585/408.297.6962</u>
Tele/Fax: <u>408-782-8154/408-782-6308</u>	Tele/Fax: <u>925-299-8891/925-299-8872</u>	Consultant PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>Normal</u>		Invoice to: <u>BP West Coast Products</u>
BP/GEM Account No.:		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
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TPH-g(8015)	BTEX (8260)	<del>PAHs (8260)</del>	<u>(motor oil)</u>	
1	<del>P16 A</del>	<u>P16 A</u>	<u>1000</u>	X				1	X				X	X	X	X		
2	<del>P16 B</del>	<u>P16 B</u>	<u>1002</u>	X				1	X				X	X	X	X		
3		<u>P16 C</u>	<u>1005</u>	X				1	X				X	X	X	X		
4		<u>P16 D</u>	<u>1007</u>	X				1	X				X	X	X	X		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Todd Trammell</u>	Relinquished By / Affiliation: <u>Todd Trammell</u>	Date: <u>10/4</u>	Time: <u>1700</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>10/4/02</u>	Time: <u>1700</u>
Sampler's Company: <u>URS Oakland</u>	<u>W.C.</u>	Date: <u>10/4</u>	Time: <u>1915</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>10/4/02</u>	Time: <u>1915</u>
Shipment Date: <u>10/4/02</u>						
Shipment Method: <u>Hand Deliver</u>						
Shipment Tracking No:						

Special Instructions: 48 TAT

Custody Seals In Place Yes No x Temperature Blank Yes No x Cooler Temperature on Receipt °F/C Trip Blank Yes No x

**Attachment C**

**Field Sampling Data Sheet**





SAMPLING LOG



Site ARCO Station No. 4931 Date 10/21/02  
 Samplers Todd Trammell Proj No. 38485977  
 PID Model No. \_\_\_\_\_ Calibration date/time \_\_\_\_\_ Page 1 of 1

Sample ID	PID reading (ppm)	Depth	Time	Matrix	Comments
S1		~ 3'	1535	soil	
S2		~ 3'	1541	soil	
S3		~ 3'	-	-	Could not be collected
S4		~ 3'	1635	soil	
S5		~ 3'	1545	soil	
S6		~ 3'	1551	soil	
S7		~ 3'	1556	soil	
S8		~ 3'	1620	soil	
S9		~ 3'	1732	soil	
S10		~ 3'	1725	soil	
S11		~ 3'	1720	soil	
S12		~ 3'	1713	soil	
L1		~ 3'	1538	soil	
L2		~ 3'	1547	soil	
L3		~ 3'	1630	soil	Strong fuel odor, take second deeper sample (L3-A)
L3-A		~ 5'	1633	soil	over-excavation sample
L4		~ 3'	1552	soil	Strong fuel odor, take second deeper sample (L4-A)
L4-A		~ 5'	1615	soil	over-excavation sample
L5		~ 3'	1557	soil	
L6		~ 3'	1626	soil	
L7		~ 3'	1655	soil	
L8		~ 3'	1700	soil	
L9		~ 3'	1730	soil	
L10		~ 3'	1723	soil	
L11		~ 3'	1717	soil	
L12		~ 3'	1710	soil	
L13		~ 3'	1735	soil	

Attachments: See attached map for sampling locations.

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Attachment D**  
**Waste Manifests**

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No. <b>74031</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>ARCO #4931 731 W. MACARTHUR BLVD OAKLAND, CA</b>		4. Generator's Phone <b>(925) 946-1085</b>		5. Transporter 1 Company Name <b>DILLARD ENVIRONMENTAL SVCS.</b>	
6. US EPA ID Number <b>CAD98232343</b>		7. Transporter 2 Company Name		8. US EPA ID Number	
9. Designated Facility Name and Site Address <b>ALBERT LAMMILL 10840 ALFAMONT PASS ROAD LIVERMORE, CA 94550</b>		10. US EPA ID Number <b>CAD981382732</b>		11. WASTE DESCRIPTION	
11. WASTE DESCRIPTION		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.	
a. <b>NON HAZ SOIL, (pt: 55112800)</b>		<b>001</b>	<b>DT</b>	<b>00018</b>	<b>Y</b>
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above <b>IIa. 55112800 IIb. IIc. IId.</b>		H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <b>Emergency Contact: (925) 634-6850 DILLARD JUN#1064-006 POS 09-3382</b>					
<b>16. GENERATOR'S CERTIFICATION:</b> I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <b>F. DILLARD PER ARCO</b>		Signature <i>[Signature]</i>		Date <b>10/29/02</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <b>Jim Dunes</b>		Signature <i>[Signature]</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature <i>[Signature]</i>		Date <b>10/29/02</b>	

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

TRANSPORTER

CITY

Altamont Landfill - RR  
10940 Altamont Pass Road  
Livermore CA 94550

DATE: 10/20/2002  
TIME IN: 15:43  
TIME OUT: 15:12

TICKET: 320545-1  
L/O: 1  
STAGE TICKET: 17452

CARRIER: DILL Dillard  
TRUCK: 891 TRAILER:  
CUSTOMER: DILLARD / DILLARD / DILLARD  
GENERATOR: DILLARD / DILLARD / DILLARD  
ORIGIN: DAK / DILLARD / DILLARD

MANIFEST WASTE / GENERATION / DILLARD / DILLARD  
7421 DILLARD / DILLARD / DILLARD

GROSS: 1650 LBS  
TARE: 3050 LBS  
NET: 8700 LBS

CUSTOMER: DILLARD / DILLARD / DILLARD

DEPUTY WEIGHMASTER: [Signature]

CUSTOMER: [Signature]

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER WHOSE SIGNATURE IS ON THIS CERTIFICATE, AND IS RECORDED ACCORDING TO PROCEDURE AS PRESCRIBED BY CHAPTER 7 COMMERCIAL WGT REGULATIONS OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, ADMINISTERED BY THE DIVISION OF MEASUREMENTS STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

Altamont Landfill & BRF  
16240 Altamont Pass Road  
Livermore CA 94550

DATE: 10/29/2008  
TIME IN: 11:22  
TIME OUT: 11:22

TICKET: 229259-1  
1/B-1  
STAGE TICKET: 171079

CARRIER: DILLARD  
TRUCK: 091  
CUSTOMER: DILLARD  
GENERATOR: ARCO  
ORIGIN: ORG / ORG

MANIFEST NO: 1  
L921

GROSS: 21550 LBS  
TARE: 3000 LBS  
NET: 18550 LBS

DILLARD  
CUSTOMER:  
DEPUTY WEIGHMASTER: Rogas, Ronald

DEPUTY WEIGHMASTER CERTIFICATE  
THIS IS TO CERTIFY that the following described commodity was weighed, measured,  
or counted by a weighmaster whose signature is on this certificate, who is  
recognized authority of accuracy, as prescribed by Chapter 7 (commencing with  
Section 12700) of Division 5 of the California Business and Professions Code  
administered by the Division of Measurements Standards of the California  
Department of Food and Agriculture.

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>	1. Generator's US EPA ID No.	Manifest Document No. 14937	2. Page 1 of 1
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3. Generator's Name and Mailing Address SRCD #4931 731 W. MARSHALL BLVD GARLAND, TX	CALL: ATLANTIC REFINERY PO BOX 8087 LOS ANGELES, CA 90009 ATTN: PAUL RUFFIN
4. Generator's Phone (925) 946-1085	

5. Transporter 1 Company Name OFFROAD ENVIRONMENTAL SVCS	6. US EPA ID Number C 6 0 9 8 2 7 2 7 9 3 7	A. State Transporter's ID
		B. Transporter 1 Phone (925) 634-6850

7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address ALBRIGHT LANDFILL 10040 ALBRIGHT PASS ROAD CIVERVILLE, CA 94550	10. US EPA ID Number C A N 0 8 1 3 8 2 7 3 2	
		E. State Facility's ID
		F. Facility's Phone (925) 449-5349

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. NON HAZ SOLID, (pt. 551.2800)	001	DRY	000100	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above Ia. 551.2800 Iib. Iic. Iid.	H. Handling Codes for Wastes Listed Above
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15. Special Handling Instructions and Additional Information  
Emergency Contact (925) 634-6850 OFFROAD  
JOSHUA 4-006 PCH 00-33982



16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name E. OFFROAD ENV SVCS	Signature <i>[Signature]</i>	Date Month Day Year 10 29 02
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17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>[Signature]</i>	Signature <i>[Signature]</i>	Date Month Day Year 10 29 02
---	---------------------------------	------------------------------------

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	Date Month Day Year
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19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.		
Printed/Typed Name <i>[Signature]</i>	Signature <i>[Signature]</i>	Date Month Day Year 10 29 02

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

TRANSPORTER

CITY





Altamont Landfill # 88  
10840 Altamont Pass Road  
Livermore CA 94550

DATE: 10/29/2002  
TIME IN: 14:56  
TIME OUT: 17:56

TICKET: 026342-1  
T/O: 1  
STAGE TICKET: 171150

CARRIER: DILL / DILL

TRUCK: 091

CUSTOMER: DILLON

GENERATOR: AR10421

ORIGIN: DMK / DAK

MANIFEST WASTE / DESCRIPTION

2021

GROSS: 50000 LBS

TARE: 30840 LBS

NET: 19160 LBS

DEPUTY WEIGHMASTER: Rojas, Rogelio

CUSTOMER:

DEPUTY WEIGHMASTER: Rojas, Rogelio

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code administered by the Division of Weights and Standards of the California Department of Food and Agriculture.

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>	1. Generator's US EPA ID No.	Manifest Document No. <u>2002031</u>	2. Page 1 of 3
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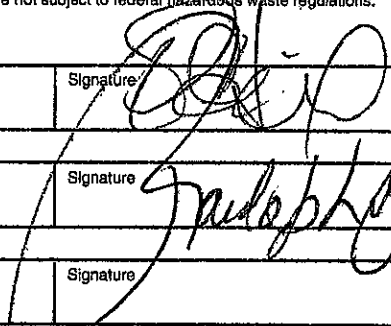
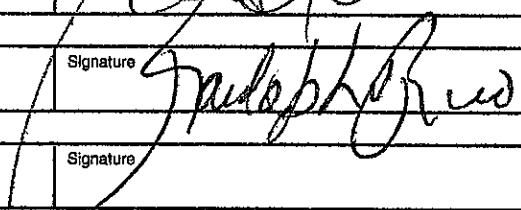
3. Generator's Name and Mailing Address EMCO #0931 731 W. MCCARTHRU BLVD OAKLAND, CA	MAIL: <b>ATLETIC RECYCLED</b> PO BOX 9087 LOS ANGELES, CA 90009 ATTN: <b>SALE SUPPLY</b>		
4. Generator's Phone (925) 945-1085			
5. Transporter 1 Company Name BILLARD ENVIRONMENTAL SVCS	6. US EPA ID Number C A D 9 8 2 5 2 7 5 3	A. State Transporter's ID	B. Transporter 1 Phone (925) 945-6850
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID	D. Transporter 2 Phone
9. Designated Facility Name and Site Address ALTAVENT LANDFILL 10640 ALTAVENT PASS ROAD LIVERMORE, CA 94550	10. US EPA ID Number C A D 9 8 1 3 8 2 7 3 2	E. State Facility's ID	F. Facility's Phone (925) 949-6349

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. <b>500 LBS SOIL, (p/c: 55112800)</b>	007	TUM	0007.0	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above Ila. 55112800 Iib. Iic. Iid	H. Handling Codes for Wastes Listed Above
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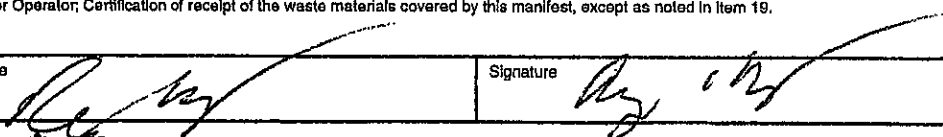
15. Special Handling Instructions and Additional Information  
Emergency Contact (925) 614-6850 BILLARD  
JOSHUA-006 PH 99-3382

**16. GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name F. BILLARD PER EMCO	Signature 	Date Month Day Year 10 29 02
17. Transporter 1 Acknowledgement of Receipt of Materials	Signature 	Date Month Day Year 10 29 02
18. Transporter 2 Acknowledgement of Receipt of Materials	Signature	Date

19. Discrepancy Indication Space

20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name	Signature 	Date Month Day Year 10 29 02
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NON-HAZARDOUS WASTE MANIFEST

GENERATOR

TRANSPORTER

CITY





# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

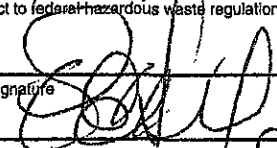
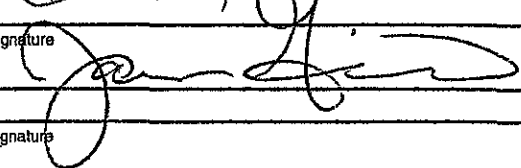
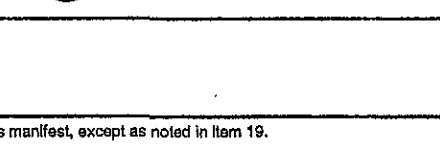
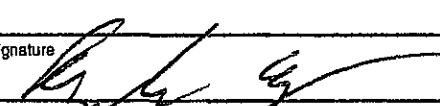
<b>NON-HAZARDOUS WASTE MANIFEST</b>	1. Generator's US EPA ID No. <b>MAIL: ATLANTIC HIGHFIELD</b>	Manifest Document No. <b>11 3 9 3 1</b>	2. Page 1 of 1
3. Generator Name and Mailing Address <b>731 W. MACARTHUR BLVD OAKLAND, CA (723) 936-1157</b>		PO BOX 9087 KOS AMBLEN, CA 94609 <b>REC'D: PAUL SUPPLE</b>	
4. Generator's Phone ( )	6. US EPA ID Number <b>0 4 0 7 3 7 3 2 3 4 3 3</b>	A. State Transporter's ID <b>1000000000000000</b>	
5. Transporter 1 Company Name <b>DELTA TRANSPORTATION SVCS.</b>	8. US EPA ID Number	B. Transporter 1 Phone	
7. Transporter 2 Company Name	10. US EPA ID Number	C. State Transporter's ID	
9. Designated Facility Name and Site Address <b>10040 ALTAMONT PASS ROAD LIVERMORE, CA 94550</b>	10. US EPA ID Number <b>0 4 0 9 0 1 3 6 2 7 3 2</b>	D. Transporter 2 Phone	
		E. State Facility's ID	
		F. Facility's Phone <b>(925) 439-6349</b>	

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. <b>NON HAZ WASTE, SPEC. 553.12000</b>	001	DT	00010	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above <b>11a. 553.12000 11b. 11c. 11d</b>	H. Handling Codes for Wastes Listed Above
--	---

15. Special Handling Instructions and Additional Information: **64550 OILS AND GREASES  
HW 91002-100 HW 99-13902**

**16. GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: <b>ANDREW PER ARCO</b>	Signature: 	Date: <b>10/29/02</b>
17. Transporter 1 Acknowledgement of Receipt of Materials	Signature: 	Date: <b>10/31/02</b>
18. Transporter 2 Acknowledgement of Receipt of Materials	Signature: 	Date: <b>10/31/02</b>
19. Discrepancy Indication Space		
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.		
Printed/Typed Name: <b>Ry</b>	Signature: 	Date: <b>10/31/02</b>

NON-HAZARDOUS WASTE MANIFEST GENERATOR TRANSPORTER FACILITY

All about Landfill, RR  
10640 All about Pass Road  
Livermore, CA 94550

DATE: 11/21/2006  
TIME IN: 09:35  
TIME OUT: 09:35

TINNEY 220784-1  
1/06  
STAGE TICKET 171619

CARRIER: DILL  
TRUCK: M91  
CUSTOMER: MICHAEL  
DEPARTMENT: RECYCLING  
ORIGIN: CAR / DAMAGED

MANIFEST WEIGHT: 21000 LBS  
TARE: 1000 LBS  
NET: 20000 LBS

GROSS: 21000 LBS  
TARE: 1000 LBS  
NET: 20000 LBS

DEPUTY WEIGHMASTER: Rojas, Roberto

CUSTOMER: [Signature]  
DEPUTY WEIGHMASTER: Rojas, Roberto

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED,  
OR COUNTED BY A WEIGHMASTER WHOSE SIGNATURE IS ON THIS CERTIFICATE, AND IS  
NECESSARY AUTHORITY OF ACCREDITATION WAS PRESENTED BY THE STATE COMMISSION WITH  
SECTION 12700 OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE  
ADMINISTERED BY THE DIVISION OF METROLOGY STANDARDS OF THE CALIFORNIA  
DEPARTMENT OF FOOD AND AGRICULTURE.

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)


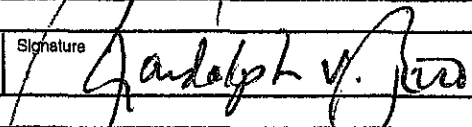
<b>NON-HAZARDOUS WASTE MANIFEST</b>	1. Generator's US EPA ID No.	Manifest Document No. 7 4 7 7 7	2. Page 1 of 1
3. Generator's Name and Mailing Address BELL ATLANTIC TELEPHONE 731 S. HARBORVIEW BLVD OAKLAND, CA ATTN: PAPER SUPPLY	6. US EPA ID Number C 0 0 9 8 2 7 2 4 7	A. State Transporter's ID	
4. Generator's Phone (510) 740-1000	8. US EPA ID Number	B. Transporter 1 Phone (510) 411-0100	
5. Transporter 1 Company Name OXYGEN ENVIRONMENTAL CORP	10. US EPA ID Number	C. State Transporter's ID	
7. Transporter 2 Company Name		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address INSTRAT, INC 1105 C AIRPORT RD RICH VESTA, CA 94571		E. State Facility's ID	
		F. Facility's Phone (925) 743-1829	

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. SHW HAM SUELL (PR: 5112800)	00	07	000000	Y
b.				
c.				
d.				

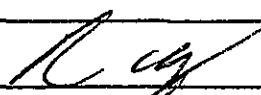
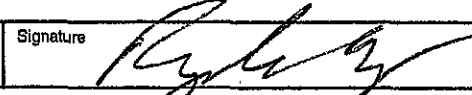
G. Additional Descriptions for Materials Listed Above I.a. / 5112800 I.b. I.c. I.d.	H. Handling Codes for Wastes Listed Above
---	---

15. Special Handling Instructions and Additional Information  
Emergency Contact (925) 437-6050  
925-437-6050

**16. GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name D. WILLARD DER BRUN	Signature 	Date Month Day Year 10 30 02
17. Transporter 1 Acknowledgement of Receipt of Materials	Signature 	Date Month Day Year 10 13 02
18. Transporter 2 Acknowledgement of Receipt of Materials	Signature	Date
Printed/Typed Name	Signature	Month Day Year

18. Discrepancy Indication Space

19. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.		Date
Printed/Typed Name 	Signature 	Month Day Year 10 31 02

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

CITY





# FORWARD INCORPORATED

9999 South Austin Road / WEIGHING LOCATION P.O. Box 6336  
 Manteca, CA 95336 Stockton, CA 95206  
 Landfill: (209) 982-4298 / WEIGHING LOCATION Main Office: (209) 466-4482  
 Resource Recovery: (209) 982-4936 Fax: (209) 465-0631

002582  
 STEVE REICHOW  
 DILLARD ENVIRONMENTAL  
 POST OFFICE BOX 579  
 BYRON, CA 94514  
 Contract: 8582#

SCALE	TICKET	GRID
01	168422	
WEIGHMASTER		
MARTA E		
DATE IN	TIME IN	
2 November 2008	5:07 am	
DATE OUT	TIME OUT	
2 November 2008	5:27 am	
VEHICLE	BOB OFF	
DILL 011		
REFERENCE	ORIGIN	
	OAKLAND	

Gross Weight 75,000.00 LB      Inbound - SCALE TICKET  
 Stated Tare Weight 30,100.00 LB  
 Net Weight 44,900.00 LB 22.94 TN

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
22.94	TN	CLASS 11 COVER 50AL				

**WEIGHMASTER CERTIFICATE** - THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

MANIFEST #

DRIVER'S SIGNATURE

NET AMOUNT
TENDERED
CHANGE
CHECK NO

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No. <b>49312</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>ARCO 04931 731 W. MACARTHUR OAKLAND, CA</b>		MAIL: <b>ATLANTIC HIGHFIELD PO BOX 9067 LOS ANGELES, CA 90009</b>		
4. Generator's Phone ( )		ATTN:		
5. Transporter 1 Company Name <b>BILLARD ENVIRONMENTAL SVCS</b>	6. US EPA ID Number <b>CA098252343</b>	A. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone <b>(925) 634-6850</b>		
9. Designated Facility Name and Site Address <b>FORWARD INC. LANDFILL 9999 SOUTH AUSTIN ROAD MANTECA, CA 95336</b>	10. US EPA ID Number <b>CA100019000</b>	C. State Transporter's ID		
		D. Transporter 2 Phone		
		E. State Facility's ID		
		F. Facility's Phone <b>(709) 962-4298</b>		
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. <b>NON HAZ SOIL, (p# 2562)</b>		No. Type		
		<b>001 DT</b>		<b>Y</b>
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above <b>11a. 2562 11b. 11c. 11d.</b>		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <b>Emergency Contact: (925) 634-6850 BILLARD JOHN 1004-006</b>				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name <b>F. BILLARD PER ARCO</b>		Signature	Date Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature	Date	
Printed/Typed Name <i>Joseph V Rico</i>		Signature <i>Joseph V Rico</i>	Date <b>11/02/02</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature	Date	
Printed/Typed Name		Signature	Date	
19. Discrepancy Indication Space				
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name <b>M. Sanchez</b>		Signature <i>M Sanchez</i>	Date Month Day Year	

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE



# FORWARD INCORPORATED

9999 South Austin Road / WEIGHING LOCATION P.O. Box 6336  
 Manteca, CA 95336 Stockton, CA 95206  
 Landfill: (209) 982-4298 // WEIGHING LOCATION Main Office: (209) 466-4482  
 Resource Recovery: (209) 982-4936 Fax: (209) 465-0631

00258E  
 STEVE REICHOW  
 DILLARD ENVIRONMENTAL  
 POST OFFICE BOX 579  
 BURTON, CA 94514  
 CONTRACT # 25624

SITE	TICKET	GRID
01	148940	
WEIGHMASTER		
MANIFEST		
DATE IN	TIME IN	
2 November 2005	11:49 am	
DATE OUT	TIME OUT	
2 November 2005	11:49 am	
VEHICLE	ROLL OFF	
BILL OF		
REFERENCE	ORIGIN	
	OAKLAND	

GROSS WEIGHT 50,440.00 LB  
 Stored tare weight 30,100.00 LB  
 Net weight 20,340.00 LB @ 17.71

Inbound - SCALE TICKET

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
10.17	TN	CLASS 11 COVER SOIL				

**WEIGHMASTER CERTIFICATE** - THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

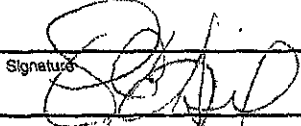
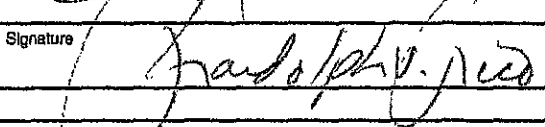
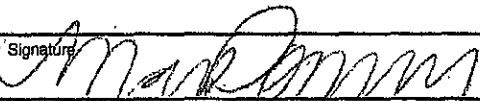
MANIFEST # 148940

DRIVER'S SIGNATURE

NET AMOUNT
TENDERED
CHANGE
CHECK NO

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No. <b>49303</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>ARCO #4931 731 W. MACARTHUR OAKLAND, CA</b>		MAIL: <b>ATLANTIC RICHFIELD PO BOX 9087 LOS ANGELES, CA 90009</b>		
4. Generator's Phone		ATTN:		
5. Transporter 1 Company Name <b>WILLARD ENVIRONMENTAL SERVICES</b>	6. US EPA ID Number <b>CA 008252343</b>	A. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone <b>(925) 634-6850</b>		
9. Designated Facility Name and Site Address <b>FORWARD INC. LANDFILL 9999 SOUTH ANSLEY ROAD MARTINEZ, CA 95336</b>		10. US EPA ID Number <b>CA 0000190080</b>	C. State Transporter's ID	
		D. Transporter 2 Phone		E. State Facility's ID
		F. Facility's Phone <b>(209) 982-4298</b>		
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. <b>MUD AND SOIL, (p# 2582)</b>		No. <b>002</b>	Type <b>DR</b>	<b>Y</b>
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above		
Ila. <b>2582</b> Iib. Iic. Iid.				
15. Special Handling Instructions and Additional Information <b>Emergency Contact (925) 634-6850 WILLARD JOS# 1004-006</b>				
<b>16. GENERATOR'S CERTIFICATION:</b> I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name <b>F. WILLARD PER ARCO</b>		Signature 	Date <b>11/1/02</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name <b>Ronald V. Reed</b>		Signature 	Date <b>11/02/02</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name		Signature	Date	
19. Discrepancy Indication Space				
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 18.				
Printed/Typed Name		Signature 	Date <b>11/02/02</b>	

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE





# FORWARD INCORPORATED

9999 South Austin Road / WEIGHING LOCATION  
Manteca, CA 95336  
Landfill: (209) 982-4298 / WEIGHING LOCATION  
Resource Recovery: (209) 982-4936

P.O. Box 6336  
Stockton, CA 95206  
Main Office: (209) 466-4482  
Fax: (209) 465-0631

DIANE  
STEVE REICHER  
DISCARD ENVIRONMENTAL  
FOOT OFFICE BLDG 579  
BYRON, CA 94521  
CITY OF BYRON

SITE	TICKET	GRID
Q1	16874	
WEIGHMASTER		
MARTIN D		
DATE IN		TIME IN
8 November 2002		11:41 am
DATE OUT		TIME OUT
8 November 2002		11:51 am
VEHICLE		ROLL OFF
DILLON		
REFERENCE	ORIGIN	
	OAKLAND	

Gross Weight 51,740.00 LB  
Scaled Tare Weight 51,740.00 LB  
Net Weight 0.00 LB 12.00 TN

Inbound - SCALE TICKET

CITY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
BYRON	TN	CLASS II COVER SOIL				

**WEIGHMASTER CERTIFICATE** - THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7, (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

HAWEERT 459514

DRIVER'S SIGNATURE

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No. <b>49314</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>ARCO #4931 731 W. MCCARTHR OAKLAND, CA</b>		MAIL: <b>ATLANTIC RICHFIELD PO BOX 9081 LOS ANGELES, CA 90009</b>		
4. Generator's Phone		ATTN:		
6. Transporter 1 Company Name <b>BILLARD ENVIRONMENTAL SVCS</b>	6. US EPA ID Number <b>CA D 0 8 2 5 2 3 4 3</b>	A. State Transporter's ID	B. Transporter 1 Phone <b>(925) 634-6850</b>	
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID	D. Transporter 2 Phone	
9. Designated Facility Name and Site Address <b>FORWARD INC. LASEVILL 9999 SOUTH AUSTIN ROAD MANTICA, CA 95336</b>	10. US EPA ID Number <b>CA T 0 0 1 0 0 0 0</b>	E. State Facility's ID	F. Facility's Phone <b>(209) 982-4208</b>	

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. <b>MOX HAS SOIL, (pf: 2582)</b>		<b>001 - DTY</b>	<b>0018</b>	<b>X</b>
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above <b>11a. 2582 11b. 11c. 11d.</b>	H. Handling Codes for Wastes Listed Above
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15. Special Handling Instructions and Additional Information  
**Emergency Contact (925) 634-6850 BILLARD  
JUNE 1004-006**

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name <b>F. BILLARD PER ARCO</b>	Signature <i>[Signature]</i>	Date <b>11/1/02</b>
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>Steve M. Turner</b>	Signature <i>[Signature]</i>	Date <b>11/02/02</b>
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	Date

19. Discrepancy Indication Space

20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.	Signature <i>[Signature]</i>	Date <b>11/02/02</b>
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NON-HAZARDOUS WASTE GENERATOR

TRANSPORTER

FACILITY



# FORWARD INCORPORATED

9999 South Austin Road / WEIGHING LOCATION P.O. Box 6336  
 Manteca, CA 95336 Stockton, CA 95206  
 Landfill: (209) 982-4298 / WEIGHING LOCATION Main Office: (209) 466-4482  
 Resource Recovery: (209) 982-4936 Fax: (209) 465-0631

DOBBE  
 STEVE REICHOW  
 DILLARD ENVIRONMENTAL  
 POST OFFICE BOX 575  
 BYRON, CA 94514  
 CONTRACT # 2588#

SHIP	TICKET	GRID
01	168483	
WEIGHMASTER		
MARTIN S.		
DATE IN	TIME IN	
2 November 2008	6:00 am	
DATE OUT	TIME OUT	
2 November 2008	6:50 am	
VEHICLE	ROLL OFF	
DILL 491		
REFERENCE	ORIGIN	
	OAKLAND	

Gross Weight 22,280.00 LB  
 Stored Tare Weight 31,120.00 LB  
 Net Weight 31,860.00 LB 15.93 TN

Inbound SCALE TICKET

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
15.93	TN	CLASS II COVER SOIL				

**WEIGHMASTER CERTIFICATE** THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

MANIFEST #

DRIVER'S SIGNATURE

*[Handwritten Signature]*

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>MIKE - ATLANTIC BUSINESS</i>		Manifest Document No. <i>7 8 9 7 7</i>	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>TEL W. MACARTHUR BLVD OAKLAND, CA (925) 955-1105</i>		4. Generator's Phone ( )		5. Transporter 1 Company Name <i>DILLARD ENVIRONMENTAL SVCS</i>	
6. US EPA ID Number <i>C A N 7 6 2 7 3 4 7 7</i>		7. Transporter 2 Company Name		8. US EPA ID Number	
9. Designated Facility Name and Site Address <i>10410 ATLANTIC PASS ROAD LIVERMORE, CA 94550</i>		10. US EPA ID Number <i>C A N 9 8 7 3 8 7 7 3 2</i>		11. WASTE DESCRIPTION	
11. WASTE DESCRIPTION		12. Containers		13. Total Quantity	
		No. Type		Unit Wt./Vol.	
a. <i>DIRT AND SOIL, (CL. FILLING)</i>		<i>803 DT</i>		<i>DRUMS</i>	
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above <i>1. 55 LITERS 2. 11.4 3. 11.4 4. 11.4</i>		H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <i>NOBILITE-006 PDS 09-33902</i>					
<b>16. GENERATOR'S CERTIFICATION:</b> I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <i>ANDREW PER ANDO</i>		Signature <i>[Signature]</i>		Date <i>10/29/02</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <i>JAMES GAINER</i>		Signature <i>[Signature]</i>	
18. Discrepancy Indication Space		18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name	
				Signature	
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		Printed/Typed Name		Signature	
				Date Month Day Year	

**Attachment E**

**Unauthorized Release Report**

**(Not Required For This Site)**