URS

FINAL REPORT
PHASE II SOIL INVESTIGATION
WEBSTER PROPERTY
LAVEEN AREA CONVEYANCE
CHANNEL
PHOENIX, ARIZONA

Prepared for:
FLOOD CONTROL DISTRICT OF
MARICOPA COUNTY

Prepared by:
URS CORPORATION

URS Job No. E1-15448010.57

URS

March 22, 2002

Ms. Theresa Pinto
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009-6399

Re: Final Report
Phase II Soil Investigation
Webster Property
Laveen Area Conveyance Channel
In Phoenix, Arizona
for Flood Control District of Maricopa County
URS Job No. E1-15448010.57

Dear Ms. Pinto:

URS has incorporated your comments on the draft report into this Final Report Phase II Soil Investigation for the above-referenced project. The attached report summarizes the findings of this investigation.

We are pleased to be of service to the Flood Control District of Maricopa County. Should you have any questions or if we may be of some additional service, please contact URS at (602) 371-1100.

Sincerely,

URS

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Project Geologist

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REGISTERED GEOLOGIST
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ARIZONA, U.S.A.

1.0 INTRODUCTION

The Laveen Area Conveyance Channel (LACC) is a flood control channel project proposed by the Flood Control District of Maricopa County (FCDMC). The LACC will be designed to carry storm water from the beginning of the channel at 43rd Avenue and approximately ¼-mile south of Southern Avenue to an outfall in the Salt River Channel east of 83rd Avenue and approximately ½-mile south of Southern Avenue (Figure 1). The LACC will be approximately 100 feet wide and approximately 6 miles long. Construction of the channel is anticipated to begin in 2002.

The proposed reach of the LACC includes the Webster property, which is located at the southwest corner of Baseline Road and 75th Avenue (Figure 1). The Webster property is bordered on the southwest by an existing irrigation canal that will be incorporated into the LACC. Residual drums and tanks associated with former practices were observed at the site during a Phase I Environmental Site Assessment (ESA) conducted by URS in March 2001.

The Phase II Soil Investigation is designed to evaluate potential soil contamination associated with former site activities and evaluate the extent of potential soil contamination at the former locations of a gasoline underground storage tank (UST) and a diesel aboveground storage tank (AST).

2.0 SITE DESCRIPTION

The Webster property is located at 7505 West Baseline Road and is a former cattle feed lot that began operation in the early-1970s. The property consists of two residential homes, several maintenance/storage sheds, and several corral areas. Although chemical use on the property has extensively diminished, residual drums and tanks associated with former practices are present at the site.

According to information obtained during the Phase I ESA, a UST was removed from the Webster property in 1990. The 550-gallon UST contained gasoline and was utilized on the property from 1987 to 1990. The UST formerly was located northwest of the historic house along the east-west fence line of one of the corrals. The UST was removed by the Webster family utilizing on-site farm equipment and placed on the ground in the southern corner of the property. Because the tank was less than 1,100 gallons and utilized for farming operations, it is considered exempt from ADEQ registration. No soil sampling was conducted during the removal of the tank and there is no information whether the UST may have leaked during use. However, the Webster

family reported that no soil staining was observed around the former location of the UST at the time of its removal.

On December 19, 2001, URS conducted a limited Phase II soil investigation to evaluate potential soil contamination at the former location of the UST. One soil boring (SB-1) was drilled at the former location of the UST. Hydrocarbon contamination was detected in soil at depths of 19 to 28 feet with groundwater encountered at 28 feet. Analytical results of soil samples collected during the limited Phase II soil investigation indicated that hydrocarbons detected in the soil were primarily diesel range (C_{10} – C_{22}). No benzene was detected at concentrations exceeding the laboratory reporting limit, which suggests that the contaminant is not gasoline. At the request of FCDMC, the limited Phase II soil investigation was cancelled and a proposal for this soil investigation was prepared.

This report describes the field procedures, sampling and analysis methods, results of analyses, conclusions and recommendations for this soil investigation. The objective of the soil investigation was to evaluate the nature and extent of potential contamination resulting from past site activities, including use of a UST and AST.

3.0 SOIL INVESTIGATION

URS conducted an extensive soil investigation at the site. The soil investigation included advancement of 10 soil borings, and collection and analysis of subsurface soil samples to evaluate the nature and extent of soil contamination. One soil boring was advanced and sampled on December 19, 2001; five soil borings were advanced and sampled on January 14, 2002; and four soil borings were advanced and sampled on January 15, 2002.

3.1 SOIL BORINGS AND SAMPLING

URS used the existing site-specific health and safety plan during site activities. A private utility locator survey was completed before field activities were conducted.

URS contracted with Enviro-Drill, Inc. to provide drilling services. A CME-45 hollow stem auger drill rig was used to advance nine soil borings to evaluate the potential presence of soil contamination.

Soil borings were advanced and soil samples collected at the following locations (Figure 2):

- Four soil borings (SB-2, SB-3, SB-4, and SB-5) were advanced around the former location of the gasoline UST and the diesel AST to evaluate the lateral extent of soil contamination detected in soil boring SB-1, which was installed during the limited Phase II investigation;

- One soil boring (SB-6) was advanced in the area proposed for installation of a sump for the conveyance channel;

- Two soil borings (SB-7 and SB-8) were advanced at and in the vicinity of the canopied maintenance area;

- One soil boring (SB-9) was advanced at a former drum storage area at the southeast corner of the property; and

- One soil boring (SB-10) was advanced where debris and other unknown materials have been dumped at the southeast corner of the property.

Using the drill rig, soil borings were advanced to a depth of approximately 25 feet or auger refusal. Subsurface soil samples were collected at 5-foot intervals beginning at a depth of 5 feet (a maximum of 5 samples per boring). Subsurface soil samples were collected in accordance with ADEQ guidelines. Soil samples were collected in a decontaminated stainless steel split-spoon sampler containing three brass sleeves.

At the former location of the UST and AST, four soil borings were drilled to evaluate the lateral extent of contamination (see Figure 2). One lateral extent soil boring (SB-2) was placed approximately 6 feet northeast from the vertical extent soil boring (SB-1) that was drilled on December 19, 2001. Based on the visual observation of contaminated soil in SB-2, two subsequent soil borings (SB-3 and SB-4) were placed approximately 10 feet east and north of SB-2, respectively. The fourth soil boring (SB-5) was placed approximately 10 feet west of SB-4.

During drilling, the site supervisor monitored the drill rig operator's breathing zone (OBZ) using a photo-ionization detector (PID). Drill cuttings discharging from the drill pipe were also monitored. The PID was calibrated in the field prior to each day's use.

Soil samples were collected in the lateral extent soil borings at 5-foot intervals beginning at a depth of 5 feet (a total of 5 samples per boring). The total depth of the lateral extent soil borings did not exceed 25 feet. Each sampling event collected three brass sleeves in a split spoon

sampler. The brass sleeve at the bottom of the split spoon sampler (i.e., the deepest portion of the sample) was packaged and preserved for analysis.

The middle brass sleeve collected from each sampling depth was designated for bag headspace analysis. Soil was removed from the brass sleeve and placed in a self-sealing plastic bag, agitated to break up the soil, then set aside. After approximately 10 minutes, the PID sampling tip was placed inside the bag and the highest reading recorded. That sample then was used for sample description. Samples were classified according to the Unified Soil Classification System as modified by American Society for Testing and Materials (ASTM) D2487-92. The field supervisor recorded soil descriptions in the field notes.

Soil samples were collected, packaged, labeled, and preserved, then submitted to an Arizona licensed laboratory for analysis under strict chain-of-custody protocol. Samples were analyzed for constituents that potentially may have impacted soil by a release from the UST or AST.

Soil boring drill cuttings were contained in 55-gallon drums if impacted or contaminated soil was visually observed or detected by the PID during drilling. The results of sample analyses indicated that soil and drill cuttings were not a hazardous waste or special waste. The cuttings were disposed onsite at the soil boring locations. Enviro-Drill transported the empty drums offsite for recycling. Drill cuttings from soil borings where no impacted soil was visually observed or detected by the PID during drilling were used to backfill the soil boring.

Sampling equipment, including brass sleeves, split-spoon samplers, and auger flights were decontaminated using clean water containing a laboratory-grade detergent, followed by a double rinse with distilled water before each sample collection. Decontaminated equipment was allowed to air dry, or was dried with lint free towels. Auger flights were decontaminated using clean water containing a laboratory-grade detergent followed by a double rinse with a steam spray cleaning system.

3.2 INVESTIGATION-DERIVED WASTE

All investigation-derived waste (IDW) generated during field activities was handled in accordance with ADEQ policy. This material included drill cuttings from soil borings, decontamination water, disposable sampling equipment, and personal protective equipment. Impacted drill cuttings were found to be non-hazardous or special waste, and were disposed onsite.

3.3 FIELD DOCUMENTATION

Sampling activities were directed by a URS field supervisor responsible for maintaining the following field documentation. Sampling information was recorded on chain-of-custody forms and Daily Field Report forms. The Daily Field Report forms are used to keep a diary of field activities and to record pertinent data that are not included on the chain-of-custody form. The information recorded included:

- Daily field activities and pertinent data, including general site conditions, daily weather, arrival and departure of subcontractors, equipment used onsite, equipment problems, handling and disposal of investigation derived waste, and other relevant information;
- Health and safety documentation as required by the health and safety plan;
- The sample container labels and chain-of-custody forms;
- A photograph log;
- A soil boring log describing sampling method, classifying the soil in each boring, recording blow counts and PID readings for the operator breathing zone and drill cuttings, and indicating the samples submitted for analysis. Soil boring logs are provided in Appendix A.

4.0 SAMPLE ANALYSES

URS submitted soil samples to Precision Analytical Laboratories, Inc., an Arizona-licensed analytical laboratory (Arizona Department of Health Services [ADHS] License No. AZ0610).

A total of 29 soil samples were analyzed for total petroleum hydrocarbons (TPH) by ADHS Method 8015AZR1, including five samples each from SB-1, SB-3, SB-4, and SB-5; and four samples from SB-2. Samples collected from SB-6, SB-7, SB-8, SB-9, and SB-10 were composited at the laboratory into one sample for each soil boring, for a total of 5 samples, and analyzed for TPH.

A total of 42 soil samples were extracted for volatile organic compounds (VOCs) in the field using Encore™ sampling devices, submitted to the laboratory and held for possible later analysis depending on the results of TPH analysis. A total of 11 soil samples were analyzed for VOCs.

All five samples collected from SB-1 were analyzed for VOCs by U.S. Environmental Protection Agency (EPA) Method 8260B. Two soil samples having the highest TPH concentration were selected from each of soil borings SB-2, SB-3, and SB-4 and submitted for VOC analysis.

Two soil samples from SB-1 having the highest TPH concentration were analyzed for polynuclear aromatic hydrocarbons (PAH) by EPA Method 8310. Similarly, two samples each from soil borings SB-3 and SB-4, and one sample from SB-2 having the highest TPH were submitted for PAH analysis.

5.0 ANALYTICAL RESULTS

The Precision Analytical Laboratories reports are provided in Appendix B. The URS data validation memorandum is provided in Appendix C.

Results for TPH analyses are presented in Table 1. Hydrocarbons were detected in 7 of 29 samples analyzed at concentrations ranging from 537 to 2,440 milligrams per Kilogram (mg/Kg). TPH was not detected at concentrations exceeding the Arizona residential Soil Remediation Level (SRL) of 4,100 mg/Kg.

Results for VOC analyses are presented in Table 2. VOC constituents were detected in 8 of 11 samples analyzed. Constituents detected included 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-isopropyltoluene, ethylbenzene, xylenes, n-propylbenzene, sec-butylbenzene, toluene, and trichlorofluoromethane. None of the VOC constituents were detected at concentrations exceeding the corresponding residential SRL, where established.

Results for PAH analyses are presented in Table 3. PAH constituents were detected in two of seven samples analyzed. Fluorene, naphthalene, and phenanthrene were detected in sample SB-1-25.0 and SB-4-20.0, and anthracene and pyrene were detected in SB-1-25.0. None of the PAH constituents were detected at concentrations exceeding the corresponding residential SRL, where established.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Phase II Soil Investigation was designed to evaluate potential soil contamination associated with former site activities and evaluate the extent of potential soil contamination at the former locations of a gasoline UST and a diesel AST. The results of soil analyses indicate that soil contamination at the former location of the UST and AST does not exceed the soil remediation

standards established by the ADEQ. In addition, hydrocarbon contamination was not detected in composite samples collected from selected areas of potential contamination at the site, including a former drum storage area, a debris dumping area, and a vehicle maintenance area.

As a result of the soil investigation, URS recommends that no further investigation is warranted at the site.

TABLES

Table 1
Results for Total Petroleum Hydrocarbons
Webster Property, Phoenix, Arizona

ADEQ SRL mg/Kg	ADEQ GPL mg/Kg	Sample ID / Date Sampled / Unit	SB-1-5.0 12/19/01 mg/Kg	SB-1-10.0 12/19/01 mg/Kg	SB-1-15.0 12/19/01 mg/Kg	SB-1-20.0 12/19/01 mg/Kg	SB-1-25.0 12/19/01 mg/Kg	SB-2-5.0 1/14/02 mg/Kg	SB-2-10.0 1/14/02 mg/Kg	SB-2-15.0 1/14/02 mg/Kg	SB-2-20.0 1/14/02 mg/Kg	SB-2-25.0 1/14/02 mg/Kg
		Analyte										
NE	NE	DRO	**42.1**	**76.2**	**51.8**	**2,310**	**834**	<30.0	**609**	**1,560**	**1,390**	NA
NE	NE	ORO	<100	<100	<100	**132**	<100	<100	**281**	**711**	**1,710**	NA
4,100	NE	Total	<130	<130	<130	**2,440**	**834**	<130	**890**	**2,270**	**3,100**	NA

ADEQ SRL mg/Kg	ADEQ SRL mg/Kg	Sample ID / Date Sampled / Unit	SB-3-5.0 1/14/02 mg/Kg	SB-3-10.0 1/14/02 mg/Kg	SB-3-15.0 1/14/02 mg/Kg	SB-3-20.0 1/14/02 mg/Kg	SB-3-25.0 1/14/02 mg/Kg	SB-4-5.0 1/14/02 mg/Kg	SB-4-10.0 1/14/02 mg/Kg	SB-4-15.0 1/14/02 mg/Kg	SB-4-20.0 1/14/02 mg/Kg	SB-4-25.0 1/14/02 mg/Kg
		Analyte										
NE	NE	DRO	<30.0	**355**	<30.0	**41.3**	**69.6**	<30.0	<30.0	<30.0	**537**	<30.0
NE	NE	ORO	<100	**214**	<100	<100	<100	<100	<100	<100	<100	<100
4,100	NE	Total	<130	**569**	<130	<130	<130	<130	<130	<130	**537**	<130

ADEQ SRL mg/Kg	ADEQ SRL mg/Kg	Sample ID / Date Sampled / Unit	SB-5-5.0 1/14/02 mg/Kg	SB-5-10.0 1/14/02 mg/Kg	SB-5-15.0 1/14/02 mg/Kg	SB-5-20.0 1/14/02 mg/Kg	SB-5-25.0 1/14/02 mg/Kg	COMP SB6 1/15/02 mg/Kg	COMP SB7 1/15/02 mg/Kg	COMP SB8 1/15/02 mg/Kg	COMP SB9 1/15/02 mg/Kg	COMP SB10 1/15/02 mg/Kg
		Analyte										
NE	NE	DRO	<30.0	<30.0	<30.0	<30.0	NA	<30.0	<30.0	<30.0	<30.0	<30.0
NE	NE	ORO	<100	<100	<100	<100	NA	<100	<100	<100	<100	<100
4,100	NE	Total	<130	<130	<130	<130	NA	<130	<130	<130	<130	<130

SRL = Arizona residential Soil Remediation Level
DRO = Diesel Range Hydrocarbons
ORO = Oil Range Hydrocarbons
COMP = Composite Sample

GPL = Arizona Groundwater Protection Level
NE = SRL not established for analyte
NA = Not analyzed
Bold value indicates analyte detected

Table 2
Results for Volatile Organic Compounds
Webster Property, Phoenix, Arizona

ADEQ SRL (mg/Kg)	ADEQ GPL (mg/Kg)	Volatile Organic Compounds	Sample Date Units	SB-1-5.0 12/19/01 mg/Kg	SB-1-10.0 12/19/01 mg/Kg	SB-1-15.0 12/19/01 mg/Kg	SB-1-20.0 12/19/01 mg/Kg	SB-1-25.0 12/19/01 mg/Kg
1,200	1.0	1,1,1-Trichloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
23	NE	1,1,2,2-Tetrachloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
6.5	NE	1,1,2-Trichloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
500	NE	1,1-Dichloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
0.36	0.81	1,1-Dichloroethene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	1,1-Dichloropropene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	1,2,3-Trichlorobenzene		<0.10	<0.10	<0.099	<0.099	<0.10
0.014	NE	1,2,3-Trichloropropane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	1,2,4-Trimethylbenzene		< 0.050	< 0.050	< 0.050	**86**	**1.1**
NE	0.0033	1,2-Dibromoethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,100	72	1,2-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2.5	0.21	1,2-Dichloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
3.1	0.28	1,2-Dichloropropane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	1,3,5-Trimethylbenzene		< 0.050	< 0.050	< 0.050	**57**	**14**
500	NE	1,3-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	1,3-Dichloropropane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
190	9.3	1,4-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	2,2-Dichloropropane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
7,100	NE	2-Butanone (MEK)		<0.25	<0.25	<0.25	<0.25	<0.25
160	NE	2-Chlorotoluene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	2-Hexanone		<0.25	<0.25	<0.25	<0.25	<0.25
NE	NE	4-Chlorotoluene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	4-Isopropyltoluene		< 0.050	< 0.050	< 0.050	**3.1**	**1.9**
770	NE	4-Methyl-2-pentanone		<0.25	<0.25	<0.25	<0.25	<0.25
2,100	NE	Acetone		<0.50	<0.50	<0.50	<0.50	<0.50
0.62	0.71	Benzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	Bromobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	Bromochloromethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
6.3	NE	Bromodichloromethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
560	NE	Bromoform		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
6.8	NE	Bromomethane		<0.10	<0.10	<0.099	<0.099	<0.10

Table 2
Results for Volatile Organic Compounds
Webster Property, Phoenix, Arizona

ADEQ SRL (mg/Kg)	ADEQ GPL (mg/Kg)	Volatile Organic Compounds	Sample Date Units	SB-1-5.0 12/19/01 mg/Kg	SB-1-10.0 12/19/01 mg/Kg	SB-1-15.0 12/19/01 mg/Kg	SB-1-20.0 12/19/01 mg/Kg	SB-1-25.0 12/19/01 mg/Kg
1.6	1.6	Carbon tetrachloride		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
65	22	Chlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	Chloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2.5	NE	Chloroform		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
12	NE	Chloromethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
31	4.9	cis-1,2-Dichloroethene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2.4	NE	cis-1,3-Dichloropropene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
53	NE	Dibromochloromethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
94	NE	Dichlorodifluoromethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,500	120	Ethylbenzene		< 0.050	< 0.050	< 0.050	**9.4**	**2.7**
2,800	2,200	m,p-Xylene		<0.10	<0.10	<0.099	**27**	**3**
320	NE	Methyl tert-butyl ether		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
77	NE	Methylene chloride		<0.10	<0.10	<0.099	<0.099	<0.10
NE	NE	n-Butylbenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	n-Propylbenzene		< 0.050	< 0.050	< 0.050	**28**	**9.1**
2,800	2,200	o-Xylene		< 0.050	< 0.050	< 0.050	**11**	**1.1**
NE	NE	sec-Butylbenzene		< 0.050	< 0.050	< 0.050	**4.7**	**3.7**
3,300	36	Styrene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	NE	tert-Butylbenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
53	1.3	Tetrachloroethene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
790	400	Toluene		< 0.050	< 0.050	< 0.050	**0.086**	< 0.050
78	8.4	trans-1,2-Dichloroethene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
2.4	NE	trans-1,3-Dichloropropene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
27	0.61	Trichloroethene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
380	NE	Trichlorofluoromethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
780	NE	Vinyl acetate		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
0.016	NE	Vinyl chloride		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

SRL = Arizona residential Soil Remediation Level
GPL = Arizona Groundwater Protection Level
mg/Kg = milligrams per Kilogram
NE = Not established
Bolded values indicate the detected concentration exceeds the laboratory reporting limits.

Table 2
Results for Volatile Organic Compounds
Webster Property, Phoenix, Arizona

ADEQ GPL (mg/Kg)	Volatile Organic Compounds	Sample / Date / Units	SB-2-20.0 1/14/02 mg/Kg	SB-2-25.0 1/14/02 mg/Kg	SB-3-20.0 1/14/02 mg/Kg	SB-3-25.0 1/14/02 mg/Kg	SB-4-15.0 1/14/02 mg/Kg	SB-4-20.0 1/14/02 mg/Kg
1.0	1,1,1-Trichloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	1,1,2,2-Tetrachloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	1,1,2-Trichloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	1,1-Dichloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
0.81	1,1-Dichloroethene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	1,1-Dichloropropene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	1,2,3-Trichlorobenzene		<0.10	<0.099	<0.10	<0.10	<0.10	<0.10
NE	1,2,3-Trichloropropane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	1,2,4-Trimethylbenzene		**0.13**	**4.5**	**0.43**	< 0.050	**13**	**5.6**
0.0033	1,2-Dibromoethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
72	1,2-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
0.21	1,2-Dichloroethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
0.28	1,2-Dichloropropane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	1,3,5-Trimethylbenzene		**0.078**	**6.4**	**0.22**	< 0.050	**9.5**	**6**
NE	1,3-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	1,3-Dichloropropane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
9.3	1,4-Dichlorobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	2,2-Dichloropropane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	2-Butanone (MEK)		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
NE	2-Chlorotoluene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	2-Hexanone		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
NE	4-Chlorotoluene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	4-Isopropyltoluene		< 0.050	**0.53**	< 0.050	< 0.050	**0.76**	**0.98**
NE	4-Methyl-2-pentanone		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
NE	Acetone		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
0.71	Benzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Bromobenzene		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Bromochloromethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Bromodichloromethane		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Bromoform		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Bromomethane		<0.10	<0.099	<0.10	<0.10	<0.10	<0.10

Table 2
Results for Volatile Organic Compounds
Webster Property, Phoenix, Arizona

ADEQ GPL (mg/Kg)	Volatile Organic Compounds / Sample / Date / Units	SB-2-20.0 1/14/02 mg/Kg	SB-2-25.0 1/14/02 mg/Kg	SB-3-20.0 1/14/02 mg/Kg	SB-3-25.0 1/14/02 mg/Kg	SB-4-15.0 1/14/02 mg/Kg	SB-4-20.0 1/14/02 mg/Kg
1.6	Carbon tetrachloride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
22	Chlorobenzene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Chloroethane	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Chloroform	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Chloromethane	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
4.9	cis-1,2-Dichloroethene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	cis-1,3-Dichloropropene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Dibromochloromethane	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Dichlorodifluoromethane	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
120	Ethylbenzene	< 0.050	**1**	< 0.050	< 0.050	< 0.050	< 0.050
2,200	m,p-Xylene	**0.13**	**3.2**	<0.10	<0.10	**0.24**	**0.17**
NE	Methyl tert-butyl ether	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Methylene chloride	<0.10	<0.099	<0.10	<0.10	<0.10	<0.10
NE	n-Butylbenzene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	n-Propylbenzene	< 0.050	**3.3**	**0.055**	< 0.050	**0.28**	**1.2**
2,200	o-Xylene	< 0.050	**1.3**	< 0.050	< 0.050	< 0.050	< 0.050
NE	sec-Butylbenzene	< 0.050	**0.97**	< 0.050	< 0.050	**0.72**	**1.6**
36	Styrene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	tert-Butylbenzene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1.3	Tetrachloroethene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
400	Toluene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
8.4	trans-1,2-Dichloroethene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	trans-1,3-Dichloropropene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
0.61	Trichloroethene	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Trichlorofluoromethane	**0.056**	< 0.050	**0.06**	**0.087**	< 0.050	< 0.050
NE	Vinyl acetate	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
NE	Vinyl chloride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

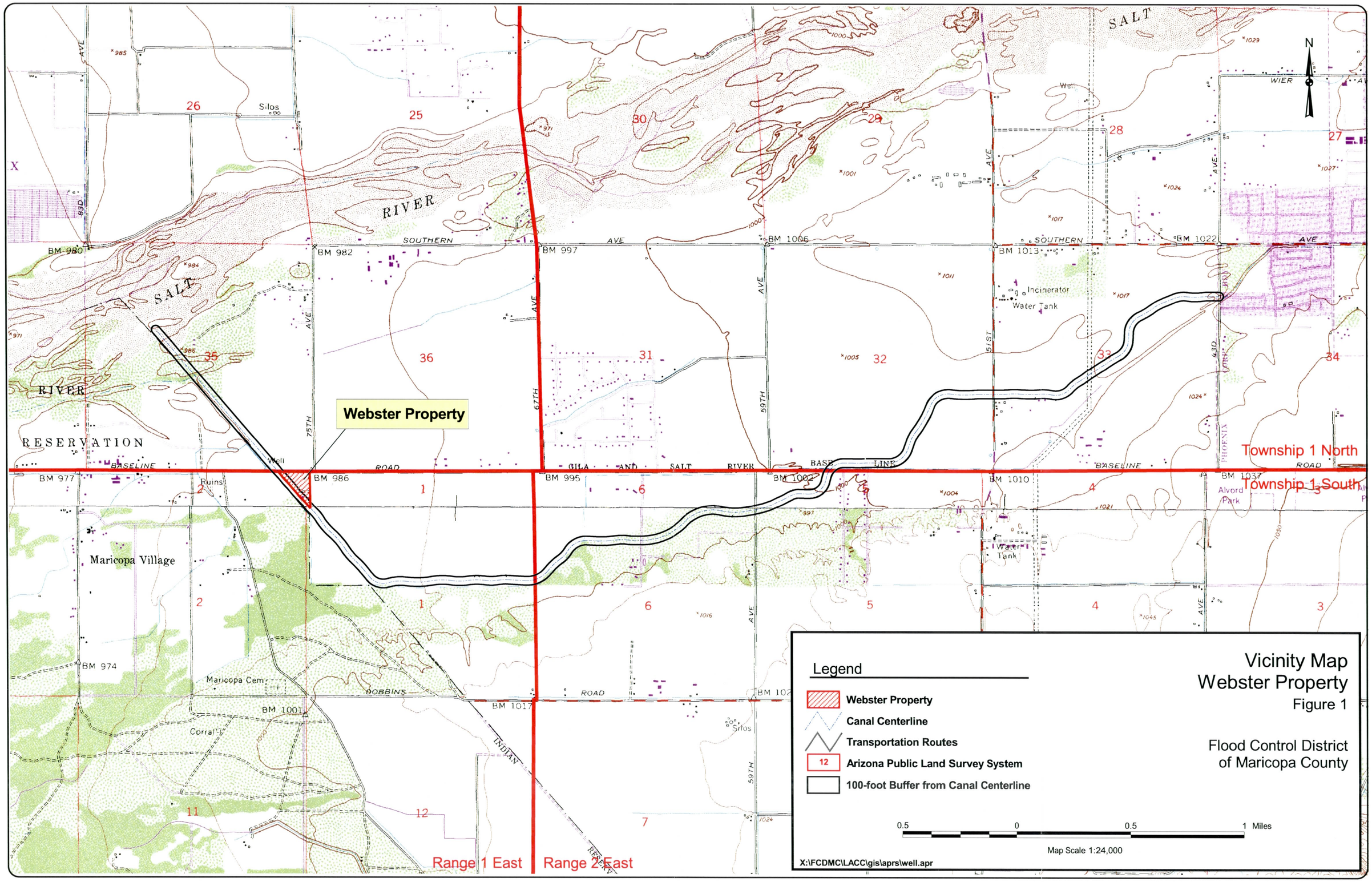
SRL = Arizona residential Soil Remediation Level
GPL = Arizona Groundwater Protection Level
mg/Kg = milligrams per Kilogram
NE = Not established
Bolded values indicate the detected concentration exceeds the lab

Table 3
Results for Polynuclear Aromatic Hydrocarbons
Webster Property, Phoenix, Arizona

ADEQ SRL mg/Kg	ADEQ GPL mg/Kg	Sample ID Date Sampled Unit	SB-1-15.0 12/19/01 mg/Kg	SB-1-25.0 12/19/01 mg/Kg	SB-2-20.0 1/14/02 mg/Kg	SB-3-20.0 1/14/02 mg/Kg	SB-3-25.0 1/14/02 mg/Kg	SB-4-15.0 1/14/02 mg/Kg	SB-4-20.0 1/14/02 mg/Kg
		Analyte							
3,900	NE	Acenaphthene	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
NE	NE	Acenaphthylene	<0.30	<0.30	<0.60	<0.30	<0.30	<0.30	<0.30
20,000	NE	Anthracene	<0.020	**0.042**	<0.040	<0.020	<0.020	<0.020	<0.020
6.1	NE	Benz(a)anthracene	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	<0.010
0.61	NE	Benzo(a)pyrene	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	<0.010
6.1	NE	Benzo(b)fluoranthene	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
NE	NE	Benzo(g,h,i)perylene	<0.030	<0.030	<0.060	<0.030	<0.030	<0.030	<0.030
61	NE	Benzo(k)fluoranthene	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	<0.010
610	NE	Chrysene	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
0.61	NE	Dibenz(a,h)anthracene	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	<0.010
2,600	NE	Fluoranthene	<0.030	<0.030	<0.060	<0.030	<0.030	<0.030	<0.030
2,600	NE	Fluorene	<0.030	**0.13**	<0.060	<0.030	<0.030	<0.030	**0.088**
6	NE	Indeno(1,2,3-cd)pyrene	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	<0.010
2,600	NE	Naphthalene	<0.20	**0.86**	<0.40	<0.20	<0.20	<0.20	**0.96**
NE	NE	Phenanthrene	<0.030	**0.44**	<0.060	<0.030	<0.030	<0.030	**0.29**
2,000	NE	Pyrene	<0.020	**0.024**	<0.040	<0.020	<0.020	<0.020	<0.020

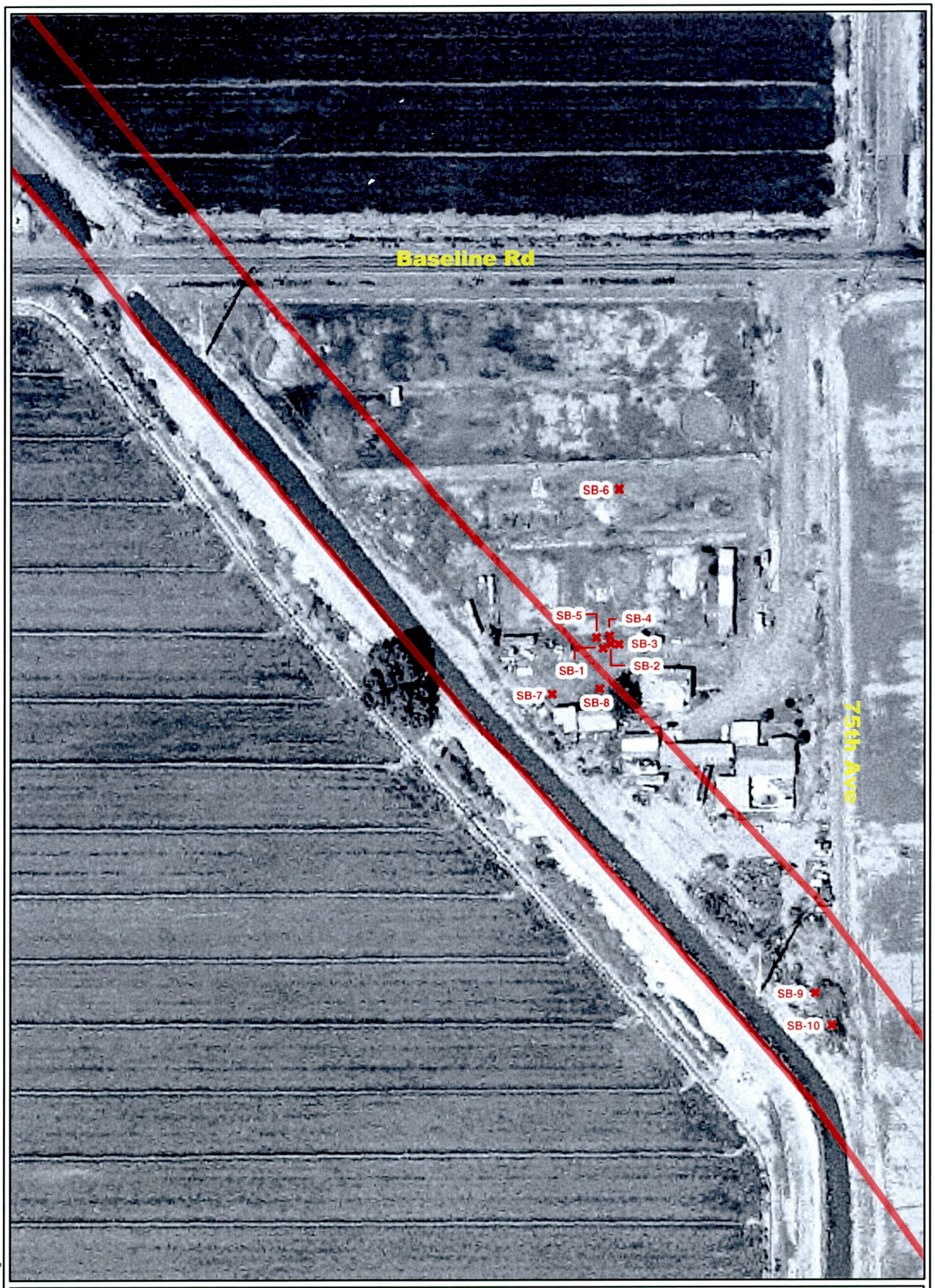
SRL = Arizona residential Soil Remediation Level
GPL = Arizona Groundwater Protection Level
NE = SRL not established for analyte
Bold value indicates analyte detected

FIGURES



Vicinity Map
Webster Property
Figure 1

Flood Control District
of Maricopa County



SB-1 ✖ Soil Boring Location and Number

Proposed Channel Bank

0 75 150 300

Feet

N
W E
S

URS

Soil Boring Locations
Webster Property

Figure 2

Flood Control District of Maricopa County

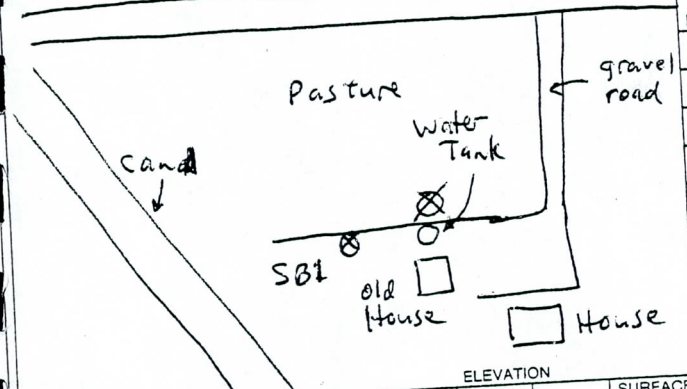
X:\FCDMC\LACC\gis\mxds\soil_boring

APPENDIX A

SOIL BORING LOGS

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING: Baseline Rd 75th Ave	JOB NO. E1-00002045.00	CLIENT FCDMC	LOCATION 75th Ave + Baseline
	DRILLING METHOD: Hollow stem auger CME-45		BORING NO. SB1
			SHEET 1 OF 2
	SAMPLING METHOD: Split spoon sampler with brass sleeves		DRILLING START TIME 0915 / FINISH TIME 1012
	WATER LEVEL		
	TIME		DATE 12/19/01 / DATE 12/19/01
	DATE		
	CASING DEPTH		



DATUM: ELEVATION:

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ PID (ppm)	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF~~ SAMPLE RINGS TIME	DEPTH IN FEET	SOIL GRAPH	
						0		Silty sand: dark brown, fine grained, sl clayey, dry, poorly graded
						1		
						2		
						3		
						4		
SS	18/17	1.7	SB1-5.0	8/13/10	0922	5	Sm	
						6		
						7		Sand: brown, very fine to fine grained, poorly graded, dry, no stain, no odor
						8		
						9		
SS	18/18	1.5	SB1-10.0	6/6/7	0930	10	SP	Sand: SAA
						1		
						2		
						3		
						4		
SS	18/18	1.5	SB1-15.0	7/9/20	0937	15	SP	Sand: SAA
						6		
						7		
						8	GW	Sandy gravel: light gray, well graded, gravels 0.2 - 3.0 inch diameter, rounded
						9	CL	Clay: brown, soft, low plasticity, sandy
							SW	Sand: dk gray, coarse to medium grained, Gravelly ~~gob~~ gravels 0.2 to 3" diameter, rounded
SS	18/18	384	SB1-20.0	12/50	0946	20		Strong HC odor, well graded

BY ____ DATE ____ CHK'D BY ____

625 1 (3) (REV. 11-80)

DAMES & MOORE

TION OF BORING

see page 1

JOB NO.	CLIENT	LOCATION
81-00002045.00	FCDMC	75th Ave & Baseline

BORING NO.	SHEET
SB-1	2 OF 2

DRILLING METHOD: Hollow stem auger CME-45

SAMPLING METHOD: Split spoon sampler with brass sleeves

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 0915	TIME 1012
TIME					DATE 12/19/01	DATE 12/19/01
DATE						
CASING DEPTH						

TUM ELEVATION

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ DTW	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF RINGS~~ TIME	DEPTH IN FEET	SOIL GRAPH	
SS	18/18	17.5	SB1-20.0	12/50	0946	20	SW	Gravelly sand SAA trace cobbles
						1		
						2		
						3		
						4		
SS	18/16	1276	SB1-28.0	32/37/50	1001	25	SW	Gravelly sand SAA trace cobbles
						6		
						7		
						8	▼	
						9		On sample recovery, noted that groundwater was encountered at approximately 28 ft. Sample not submitted for analysis.
SS	4/6	—	~~SB1-30.0~~	50 for 4	1008	30		
						1		TD at 30 ft. Soil boring backfilled with cement grout.
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

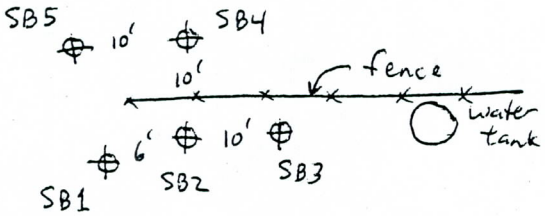
CHK'D BY

DATE

25.1 (3) (REV. 11-80)

Dames & Moore

LOCATION OF BORING



JOB NO.	CLIENT	LOCATION
	FCDMC	

DRILLING METHOD: Hollow stem auger CME-45

SAMPLING METHOD: Split spoon with brass sleeves

BORING NO. SB2

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 0847	TIME 0942
TIME						
DATE					DATE 1/14/02	DATE 1/14/02
CASING DEPTH						

DATUM ELEVATION

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ PID ppm	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER	~~NUMBER OF RINGS~~	DEPTH IN FEET	SOIL GRAPH	
					TIME	0		
						1		Silty sand: dark brown, fine grained, poorly graded, slightly clayey, dry no stain no odor.
						2	Sm	
						3		
						4		
SS	12/8	0.8	SB2-5.0	2/3	0850	5	Sm	
						6		
						7		
						8	SP	Sand: vf-fgr, poorly graded, subangular brown, dry, no stain no odor
						9		
SS	12/12	0.8	SB2-10.0	7/6	0900	10		Sand: SAA
						1		
						2		
						3		
						4		
SS	12/12	0.8	SB2-15.0	6/7	0910	5	SP	Sand: SAA
						6		
						7		
						8	GM	Silty Sandy Gravel
						9		clay layer
SS	12/6	27	SB2-20.0	50 for 5	0920	20	SW	Sd, gravelly: gray, strong HC odor well graded

DRILLING CONTR. _____ No. 74181

BY _____ DATE _____ CHK'D BY _____

28.1 (3) (REV. 11-80)

Dames & Moore

LOCATION OF BORING	JOB NO.	CLIENT	LOCATION
See page 2		FCDMC	

DRILLING METHOD:	BORING NO.
Hollow stem auger CME-45	SB-2
SAMPLING METHOD:	SHEET 2 OF 2
Split spoon sampler with brass sleeves	DRILLING

					START	FINISH
WATER LEVEL					TIME 0847	TIME 0942
TIME						
DATE					DATE 1/14/02	DATE 1/14/02
CASING DEPTH						

DATUM ELEVATION

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ PID PPM	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER	~~NUMBER OF RINGS~~ TIME	DEPTH IN FEET	SOIL GRAPH	
						20		
						1		Gravelly sand: lt gray, fine to coarse grained, gravels 0.5 – 3 inches diameter, rounded, well graded
						2		
						3		
						4		
SS	6 / 3	176	SB2-25.0	50 for 1	0935	25	SW	Gravelly sand: SAA
						6		
						7		TD at 25 ft. Soil boring backfilled with cement grout
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

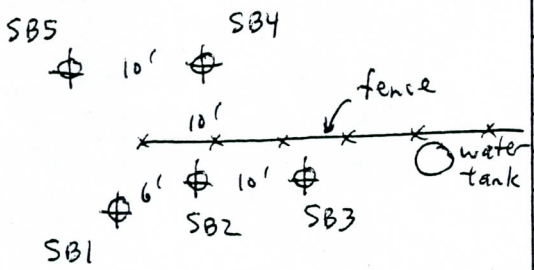
DRILLING CONTR. _____ BY _____ DATE _____ CHK'D BY _____

No. 74202

25.1 (3) (REV. 11-80)

Dames & Moore

LOCATION OF BORING



JOB NO.	CLIENT	LOCATION
	FCDMC	

DRILLING METHOD: Hollow stem auger CME-45

SAMPLING METHOD: Split spoon sampler with brass sleeves

BORING NO. SB3

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 1005	TIME 1110
TIME						
DATE					DATE 1/14/02	DATE 1/14/02
CASING DEPTH						

DATUM PID ppm ELEVATION

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT. SAMPLER	~~NUMBER OF RINGS~~ TCME	DEPTH IN FEET	SOIL GRAPH	
						0		
						1	SM	Silty sand: dark brown, fine grained, slightly clayey, poorly graded, dry no stain, no odor
						2		
						3		
						4		
SS	12/12	0.2	SB3-5.0	14/11	1020	5	SP	Sand: brown, vf-fgr, subang, dry, poorly graded, no stain, no odor
						6		
						7		
						8		
						9		
SS	12/12	0.2	SB3-10.0	10/10	1030	10	SP	Sand: brown, vf-fgr, SAA
						1		
						2		
						3		
						4		
SS	12/12	0.8	SB3-15.0	11/11	1042	15	SW	Sand: coarse, light brown, moderately graded, no stain, no odor, dry
						6		
						7		
						8		
						9		Clay, dark brown
SS	12/12	—	SB3-20.0	22/22	1055	20	GW	Sandy gravel below clay 3" layer, well graded

DRILLING CONTR. ____ BY ____ DATE ____ CHK'D BY ____

No. 74203

25.1 (3) (REV. 11-80)

DAMES & MOORE

LOCATION OF BORING	JOB NO.	CLIENT	LOCATION
see page 1		FCDMC	

DRILLING METHOD:	Hollow stem auger CME-45
SAMPLING METHOD:	Split spoon sampler with brass sleeves
BORING NO.	SB3
SHEET	2 OF 2

WATER LEVEL					DRILLING START	DRILLING FINISH
TIME					TIME 1005	TIME 1110
DATE					DATE 1/14/02	DATE 1/14/02
CASING DEPTH						

DATUM ELEVATION

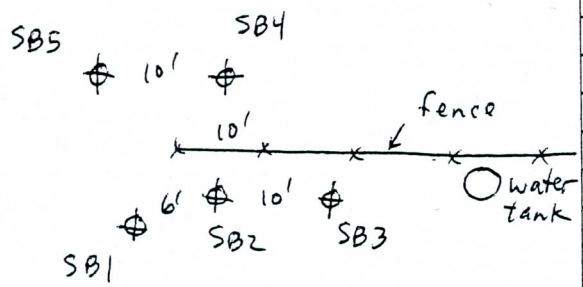
SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS: soil
						20	GW	Sandy gravels SAA, rounded.
						1	SW	Gravelly sand
						2		
						3		
						4		Sand: gray, f-m gr strong HC odor, well graded
SS	18	—	SB3-25.0	7/11/34	1107	5		CL dark brown, soft
						6	SW	Gravelly sand: lt gray, vc gr sl HC odor gravels 0.2 to 2 inches diameter, rounded
						7		TD at 25 ft. Backfill with cement grout
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

DRILLING CONTR. _____ CHK'D BY _____ DATE _____ BY _____

625.1 (3) (REV. 11-80)

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING



JOB NO.	CLIENT	LOCATION
	FCDmC	

DRILLING METHOD: Hollow stem auger CME-45

SAMPLING METHOD: Split spoon sample w/brass sleeves

BORING NO. SB4

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 1040	TIME 1230
TIME						
DATE					DATE 1/14/02	DATE 1/14/02
CASING DEPTH						

DATUM ELEVATION

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ PID ppm	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF BLOWS~~ TIME	DEPTH IN FEET	SOIL GRAPH	
						0		
						1	Sm	Silty sand: dark brown, fine grained, poorly graded, dry, no stain, no odor, sl clayey
						2		
						3		
						4		
SS	12/12	0.2	SB4-5.0	11/11	1145	5	SP	Sand: light brown to brown, very fine to fine grained, poorly graded, dry, no stain no odor.
						6		
						7		
						8		
						9		
SS	12/12	0.8	SB4-10.0	9/8	1155	10	SP	Sand: SAA
						1		
						2		
						3		indefinite contact
						4		
SS	12/12	212	SB4-15.0	4/8	1205	5	SP	Sand: SAA, HC odor, no stain
						6		
						7		
						8		Cobbles Gravelly sand: light gray, fine to coarse grained, well graded, strong HC odor, slight stain; gravels 0.2 inches to 3 inches diameter, rounded
						9	SW	
SS	12	85.5	SB4-20.0	30/50for2	1215	20		

DRILLING CONTR. _____ CHK'D BY _____ DATE _____ BY _____

625.1 (3) (REV. 11-80)

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING	JOB NO.	CLIENT	LOCATION
see page 1		FCOMC	

DRILLING METHOD: Hollow stem auger CME-45	BORING NO. SB4
	SHEET 2 OF 2
SAMPLING METHOD: Split spoon sampler with brass sleeves	DRILLING START / FINISH
WATER LEVEL	
TIME	
DATE	
CASING DEPTH	

	START	FINISH
TIME	1040	1230
DATE	1/14/02	1/14/02

DATUM ELEVATION

SURFACE CONDITIONS: Soil

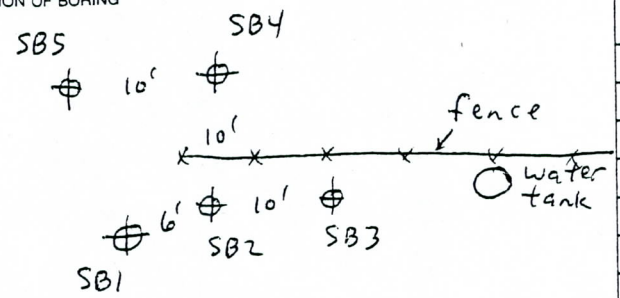
SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ PID ppm	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF BLOWS~~ TIME	DEPTH IN FEET	SOIL GRAPH	
						20		
						1		
						2		
						3		
						4		
SS	18/18	2.5	SB4-25.0	13/15/16	1223	5	SW	Gravelly sand white-ltgry, vc gr gravels 0.5 - 3" diameter, no stain, no odor, dry
						6		
						7		TD at 25 ft. Soil boring backfilled with cement grout.
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

DRILLING CONTR. _____ BY _____ DATE _____ CHK'D BY _____

625.1 (3) (REV. 11-80)

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING



JOB NO.	CLIENT	LOCATION
	FCDMC	

DRILLING METHOD: Hollow stem auger CME-45

SAMPLING METHOD: Split spoon sampler with brass sleeves

BORING NO. SB5

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 1250	TIME 1329
TIME						
DATE					DATE 1/14/02	DATE 1/14/02
CASING DEPTH						

DATUM ELEVATION

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ PID	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF BLOWS~~ TIME	DEPTH IN FEET	SOIL GRAPH	
						0		
						1		Silty sand: dark brown, fine grained, slightly clayey, poorly graded, no stain no odor, dry
						2	Sm	
						3		
						4		
SS	12/12	—	SB5/5.0	11/10	1300	5	SP	Sand: brown, very fine to fine grained, poorly graded, no stain, no odor, dry
						6		
						7		
						8		
						9		
SS	12/12	0.8	SB5-10.0	7/6	1305	10	SP	Sand: SAA
						1		
						2		
						3		
						4		
SS	12/12	0.8	SB5-15.0	7/8	1315	15	SP	Sand: SAA
						6		
						7		
						8		Gravelly sand with trace cobbles: light gray, coarse grained, no stain, no odor, well graded, dry; gravels 0.4 to 2 inches diameter, rounded
						9	SW	
SS	12/12	0.8	SB5-20.0	11/12	1325	20		

DRILLING CONTR. _____ BY _____ DATE _____ CHK'D BY _____

625.1 (3) (REV. 11-80)

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LOCATION OF BORING	JOB NO.	CLIENT	LOCATION
See page 1		FCDMC	

DRILLING METHOD:	BORING NO.
Hollow stem auger CME-45	SB5
SAMPLING METHOD:	SHEET 2 OF 2
Split spoon sampler with brass sleeves	DRILLING

					START	FINISH
WATER LEVEL					TIME 1250	TIME 1329
TIME						
DATE					DATE 1/14/02	DATE 1/14/02
CASING DEPTH						

DATUM ELEVATION

SURFACE CONDITIONS: Soil

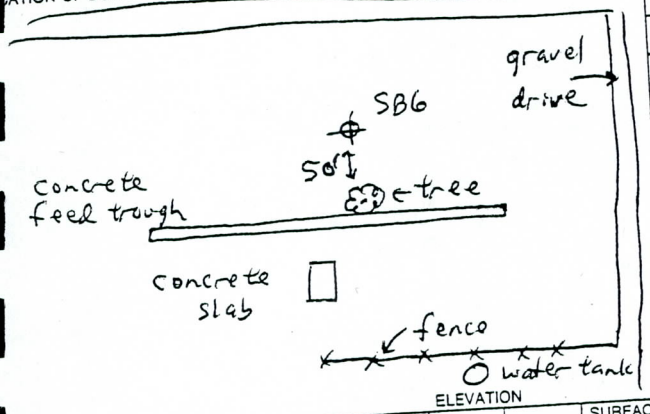
SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ PID ppm	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF BLOWS~~ TIME	DEPTH IN FEET	SOIL GRAPH	
						20	SW	
						1	GW	Sandy gravel: light gray, fine to coarse, gravel: 0.5 to 3 inches diameter, rounded, dry, no stain, no odor; sand SAA
						2	SW	
						3		
						4		Gravelly sand: light gray, very coarse grained, well graded, no stain, no odor, dry; gravels 0.2 to 3 inches diameter, rounded.
SS	12 / 1	1.0	SB5-25.0	11/15	1327	25	X	No recovery
						6		TD at 25 ft
						7		Soil boring backfilled with cement grout.
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

DRILLING CONTR. _____ BY _____ DATE _____ CHK'D BY _____

625.1 (3) (REV. 11 80)

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING: Baseline RD



JOB NO.	CLIENT	LOCATION
	FCOMC	

DRILLING METHOD: Hollow stem auger CME-45

SAMPLING METHOD: Split spoon sampler with brass sleeves

BORING NO. SB6

SHEET 1 OF 2

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DRILLING

START	FINISH
TIME 0823	TIME 0908
DATE 1/15/02	DATE 1/15/02

DATUM

ELEVATION

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING / PID ppm	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH	
						0	SW	Sand; light brown, well graded, some debris, no stain, no odor, dry
						1		
						2		
						3		
						4	SP	Sand; brown, vf-fgr, subang-subrn, poorly graded dry no stain, no odor
SS	12/12	1.1	SB6-5.0	5/5	0830	5		
						6		
						7		
						8		
						9		
SS	12/12	0.2	SB6-10.0	5/17	0836	10	SP	Sand, lt brn, SAA
						1		
						2		
						3		
						4	SW	Gravelly sand: lt brn, well graded, fine to coarse gravels 0.5 - 2.5" diameter, dry
SS	12/8	0.4	SB6-15.0	20/13	0846	5		
						6		
						7		
						8		
						9	GW	Sandy gravel: gray-brown well graded, coarse gravel 0.5 - 2.0 inch diameter clean
SS	12/6	0.4	No Sample	12/14	0852	20		No sample submitted

CHK'D BY

DATE

125.1 (3) (REV. 11-80)

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING	JOB NO.	CLIENT	LOCATION
see page 1		FCDMC	

DRILLING METHOD:	BORING NO.
Hollow stem auger CME-45	SB6
	SHEET 2 OF 2
SAMPLING METHOD: Split spoon sampler with brass sleeves	DRILLING

					START	FINISH
WATER LEVEL					TIME 0823	TIME 0908
TIME						
DATE					DATE 1/15/02	DATE 1/15/02
CASING DEPTH						

DATUM ELEVATION

SURFACE CONDITIONS:

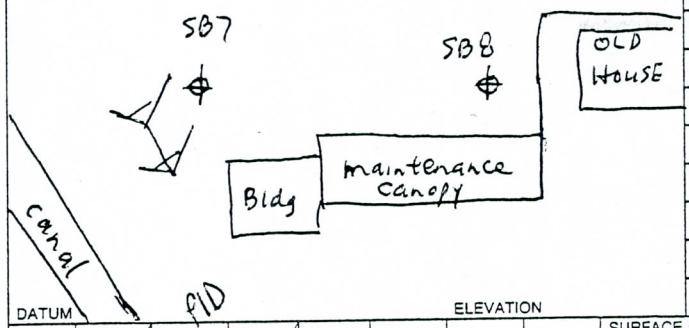
SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING (PID PPM)	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH	
						20	GW	Sandy gravel: SAA
						1		
						2	SW	
						3		
						4		
SS	12	—	S6 / 35	41/40	0905	5		coarse grained Gravelly sand: lt gray, well graded, dry, no other gravels 0.5 to 1.5 inches diameter subrounded.
						6		
						7		TD at 25 ft. Soil boring back filled with drill cuttings
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

DRILLING CONTR. _____ BY _____ DATE _____ CHK'D BY _____

625.1 (3) (REV. 11-80)

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING



JOB NO.	CLIENT	LOCATION
	FCDMC	

DRILLING METHOD: Hollow stem auger

SAMPLING METHOD: Split spoon sampler with brass sleeves

BORING NO. SB7

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 0915	TIME 1015
TIME						
DATE					DATE 1/15/02	DATE 1/15/02
CASING DEPTH						

DATUM ELEVATION

SURFACE CONDITIONS: soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ PID ppm	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF BLOWS~~ TIME	DEPTH IN FEET	SOIL GRAPH	
						0		
						1	SC	Clayey sand: dark brown, vf gr, trace gravels, asphalt + debris.
						2		
						3		
						4	SP	Sand: brown, vf-fgr, subrounded, dry well sorted
SS	12/8	0.4	SB7/5.0	6/8	0925	5		
						6		
						7		
						8		
						9		
SS	12/12	0.4	SB7/10.0	12/14	0939	10	SP	sand: brown, vf-fgr, poorly graded dry, no staining/odor
						1		
						2		
						3		
						4		
SS	12/12	0.7	SB7/15.0	12/15	0946	15	SP	sand: SAA
						6		
						7		
						8		
						9		
SS	12/12	0.7	SB7/20.0	6/8	0951	20	SP / CL	clayey sand: brown, f-mg, poorly graded, no stain, no odor 2" clay layer

DRILLING CONTR. _____ CHK'D BY _____ DATE _____ BY _____

625.1 (3) (REV. 11-80)

DAMES & MOORE
A THAMES & MOORE GROUP COMPANY

LOCATION OF BORING	JOB NO.	CLIENT	LOCATION
See page 1		FCOMC	

DRILLING METHOD: Hollow stem auger CME-45	BORING NO. SB7
	SHEET 2 OF 2
SAMPLING METHOD: Split spoon sampler with brass sleeves	DRILLING START TIME 0915 DATE 1/15/02; FINISH TIME 1015 DATE 1/15/02

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DATUM ELEVATION

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH	
						20		SP
								CL
						1	SW	Gravelly sand: lt brown, coarse grained, well graded, dry, no stain, no odor; gravels 0.2 - 2 inches diameter, rounded
						2		gravel layer
						3		
						4	SW	
SS	12/10	0.5	SB7 25.0	93/50	for 3 1005T	5		gravelly sand w/some cobble's: brown, well graded, f-cg, dry, no odor/stainings; gravels - coarse, round, smooth.
						6		
						7		TD at 25 ft.
						8		Soil boring backfilled with drill cuttings.
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

DRILLING CONTR. ____ BY ____ DATE ____ CHK'D BY ____

625.1 (3) (REV. 11 80)

DAMES & MOORE
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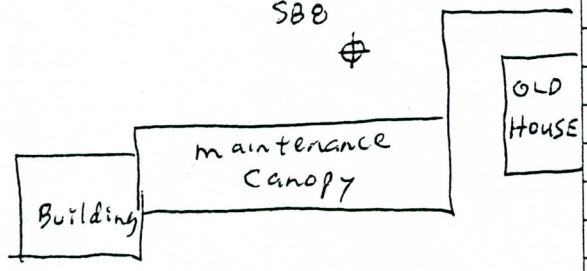
LOCATION OF BORING



JOB NO.	CLIENT	LOCATION
	FCDMC	

DRILLING METHOD: Hollow stem auger CME-45

SAMPLING METHOD: Split spoon sampler with brass sleeves

BORING NO. SB8

SHEET 1 OF 2

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DRILLING	START	FINISH
TIME	1035	1128
DATE	1/15/02	1/15/02

DATUM ELEVATION

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING (PID 13)	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF BLOWS~~ TIME	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS: soil
						0		
SS	12/12	—	SB8/1.5	4/3	1128	1	SW	Silty sand with gravels: light brown, fine to coarse, some debris well graded
						2	SM	Silty sand: dark brown, fine grained poorly graded, trace clay, no stain, no odor
						3		
						4		
SS	12/12	0.0	SB8/5.0	4/5	1045	5	SP	sand: brown, vf-g, no cobble/gravel, dry no odor/staining poorly graded
						6		
						7		
						8		
						9		
SS	12/12	0.0	SB8/10.0	8	1051	10	SP	sand: SAA + vf-fg
						1		
						2		
						3		
						4		
SS	12/12	3.9	SB8/15.0	12/15	1100	15	SP	Sand: SAA
						6		
						7		
						8		
						9		
SS	12/12	0.0	SB8/20.0	11/15	1105	20	SP	Sand: SAA

DRILLING CONTR. _____ BY _____ DATE _____ CHK'D BY _____

325.1 (3) (REV. 11-80)

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING	JOB NO.	CLIENT	LOCATION
See page 1		FCDMC	

DRILLING METHOD:	BORING NO.
Hollow stem auger CME-45	SB8
	SHEET 2 OF 2
SAMPLING METHOD: Split spoon sampler with brass sleeves	DRILLING START TIME 1035 / FINISH TIME 1134
WATER LEVEL / TIME / DATE / CASING DEPTH	DATE 1/15/02 / DATE 1/15/02

DATUM ____ ELEVATION ____

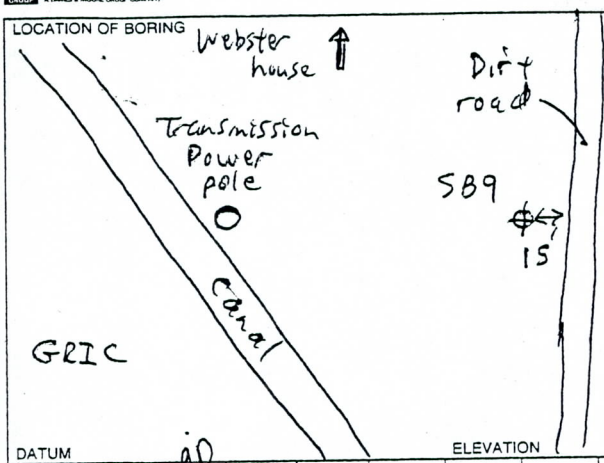
SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	~~DEPTH OF CASING~~ RID	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF BLOWS~~ TIME	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS: soil
						20		
						1	~~SW~~ SP	
						2		gravel layer
						3		
						4		
SS	12 / 3	0.0	SB8 / 25.0	50 for 2	1117	25	SW	no sample recovery
						6		TD at 25 ft
						7		Soil boring backfilled with drill cuttings.
						8		
						9		
						30		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

DRILLING CONTR. ____ CHK'D BY ____ DATE ____ BY ____

625.1 (3) (REV. 11-80)

DAMES & MOORE

LOCATION OF BORING



DATUM

ELEVATION

JOB NO.	CLIENT	LOCATION
	FCDMC	

DRILLING METHOD: Hollow stem auger CME-45

SAMPLING METHOD: Split spoon sampler with brass sleeves

BORING NO. SB9

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					TIME 1215	TIME 1305
DATE					DATE 1/15/02	DATE 1/15/02
CASING DEPTH						

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING 10	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF ATTEMPTS~~ TIME	DEPTH IN FEET	SOIL GRAPH	
						0		
						1		
						2		
						3		
						4		
SS	12/12	0.1	SB9/5.0	7/9	1225	5	SP	Sand: vfg, brown, poorly graded, no stain/odor dry
						6		
						7		
						8		
						9		
SS	12/7	0.2	SB9/10.0	50 for 4	1230	10	SP	
						11	SW	Gravel: well rounded 0.5 to 3 inches diameter Gravelly sand: light brown, coarse grained well graded, no stain, no odor, dry.
						12		
						13		
						14	SW	
SS	12/12	0.2	SB9/15.0	16/50	1235	15		sand: brown, coarse grain, gravelly, well graded, no staining/odor, dry
						16		Gravel: well rounded 0.5 to 3 inches diameter
						17		
						18	SW	
						19		
SS	12/6	0.5	SB9/20.0	38/20	1242	20		Sand: SAA

DRILLING CONTR. ____ BY ____ DATE ____ CHK'D BY ____

625.1 (3) (REV. 11-80)

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING	JOB NO.	CLIENT	LOCATION
see page 1		FCDMC	

DRILLING METHOD:	BORING NO.
Hollow stem auger CME-45	SB9
SAMPLING METHOD:	SHEET
Split spoon sampler with brass sleeves	2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 1215	TIME 1305
TIME						
DATE					DATE 1/15/02	DATE 1/15/02
CASING DEPTH						

DATUM PID ELEVATION

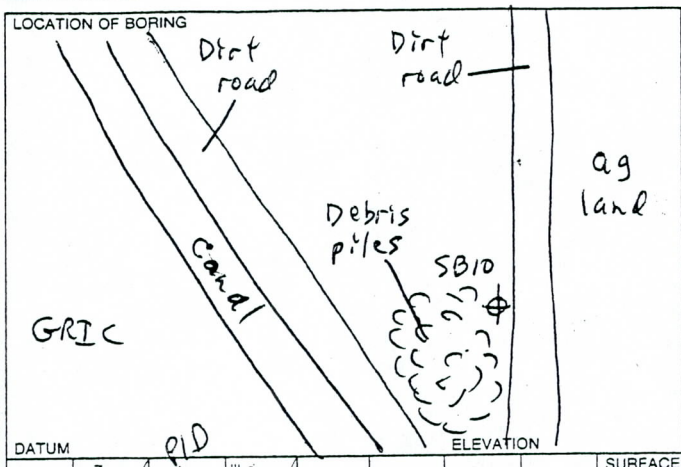
SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF ~~CASING~~ PID	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF TINGS~~ TIME	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS: Soil
						20		
						1		
						2		
						3		
						4		
SS	12 / 6	/	SB9 / 25.0	19/20/21	1255	25	SW	sand: gravelly, very coarse
						6		TD at 25 ft
						7		Soil boring backfilled with drill cuttings
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

DRILLING CONTR. _____ CHK'D BY _____ DATE _____ BY _____

625 1 (3) (REV. 11-80)

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING



DATUM

ELEVATION

JOB NO.	CLIENT	LOCATION
	FCDMC	

DRILLING METHOD: Hollow stem auger CME-45

SAMPLING METHOD: Split spoon sampler with brass sleeves

BORING NO. SB10

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 1320	TIME 1354 ~~2:00~~
TIME						
DATE					DATE 1/15/02	DATE 1/15/02
CASING DEPTH						

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING (OID ppm)	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH	
						0		
						1		
						2		
						3		
						4		
SS	12/12	0.1	SB10/5.0	8/8	1325	5	SP	sand: brown, vfg, poorly graded, no stain/odor
						6		
						7		
						8		
						9		
SS	12/12	0.2	SB10/10.0	10/6	1332	10	SP	sand: SAA ~~coarser sand~~, trace gravels
						1	SW	
						2		
						3		
						4		
SS	12/12	0.2	SB10/15.0	20/20	1340	15	SW	gravelly ~~sand~~ tight sand: brown, coarse-vc g, well graded, dry no stain/odor; gravel 0.2-1.5" diam. subrounded
						6		
						7		
						8		
						9		
						20	SW	

DRILLING CONTR. ____ CHK'D BY ____ DATE ____ BY ____

625.1 (3) (REV. 11-80)

GROUP A DAMES & MOORE GROUP COMPANY

LOCATION OF BORING	JOB NO.	CLIENT	LOCATION
See page 1		FCDMC	

DRILLING METHOD:	BORING NO.
Hollow stem auger	SB10
CME -45	SHEET 2 OF 2
SAMPLING METHOD:	DRILLING
Split spoon sampler with brass sleeves	START / FINISH

WATER LEVEL					TIME 1320	TIME 1354
TIME						
DATE					DATE 1/15/02	DATE 1/15/02
CASING DEPTH						

DATUM PID ELEVATION

SURFACE CONDITIONS: Soil

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING PPM	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	~~NUMBER OF RINGS~~ TIME	DEPTH IN FEET	SOIL GRAPH	
SS	12/12	6.4	SB10 / 20.0	19/19	1345	20	SW	gravelly sand - light brown, vcg, well graded dry, no stain/odor
						1		
						2	GW	gravel layer
						3		
						4		
SS	12/6	—	SB10 / 25.0	12/14	1350	25	SW	gravelly sand: SAA
						6		TD at 25 ft Soil boring backfilled with drill cuttings
						7		
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		

DRILLING CONTR. _____ CHK'D BY _____ DATE _____ BY _____

625.1 (3) (REV. 11-80)

APPENDIX B

PRECISION ANALYTICAL LABORATORIES REPORTS

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

January 07, 2002

David Palmer
URS Corporation
7720 N. 16th Street, Suite 100
Phoenix, AZ 85020

TEL: (602) 861-7460
FAX (602) 371-1615

RE: E1-00002045.00

Order No.: 01120691

Dear David Palmer:

Precision Analytical Laboratories, Inc. received 5 samples on 12/19/01 for the analyses presented in the following report.

This report includes the following information:
- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Marcia A. Smith
Vice President - Client Services

Precision Analytical Laboratories, Inc.
A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT: URS Corporation
Project: E1-00002045.00
Lab Order: 01120691

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
01120691-01A	SB1-5.0		12/19/01 9:22:00 AM	12/19/01
01120691-02A	SB1-10.0		12/19/01 9:30:00 AM	12/19/01
01120691-03A	SB1-15.0		12/19/01 9:37:00 AM	12/19/01
01120691-04A	SB1-20.0		12/19/01 9:46:00 AM	12/19/01
01120691-05A	SB1-25.0		12/19/01 10:01:00 AM	12/19/01

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Precision Analytical Laboratories, Inc. **Date:** *07-Jan-02*

CLIENT: URS Corporation
Project: E1-00002045.00
Lab Order: 01120691

CASE NARRATIVE

Data Qualifiers:

Listed below are data qualifiers which may be used in your analytical report to explain any analytical or quality control issues. If one or more of the following data qualifiers is associated with your analytical or quality control data it will be noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

B1 Target analyte detected in method blank at or above the method reporting limit.
D1 Sample required dilution due to matrix interference.
D2 Sample required dilution due to high concentration of target analyte.
D3 Sample dilution required due to insufficient sample.
D4 Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed.
E1 Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
E2 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E3 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
E4 Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
E6 Concentration estimated. Internal standard recoveries did not meet method acceptance criteria.
E7 Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
H1 Sample analysis performed past holding time. See case narrative.
H2 Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3 Sample was received and analyzed past holding time.
H4 Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
K1 The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. The reported result is an estimated value.
K2 The sample dilutions set up for the BOD analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/L. The reported result is estimated.
L1 The associated blank spike recovery was above laboratory acceptance limits. See case narrative.
L2 The associated blank spike recovery was below laboratory acceptance limits. See case narrative.

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CLIENT: URS Corporation
Project: E1-00002045.00
Lab Order: 01120691

CASE NARRATIVE

M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
M2 Matrix spike recovery was low, the method control sample recovery was acceptable.
M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
M4 The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
M5 Analyte concentration was determined by the method of standard addition (MSA).
N1 See case narrative.
Q1 Sample integrity was not maintained. See case narrative.
Q2 Sample received with head space.
Q3 Sample received with improper chemical preservation.
Q5 Sample received without chemical preservation, but preserved by the laboratory.
Q6 Sample was received above recommended temperature.
Q7 Sample inadequately dechlorinated.
Q8 Insufficient sample received to meet method QC requirements. QC requirements satisfy ADEQ policies 0154 and 0155.
Q10 Sample received in inappropriate sample container.
Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.
R2 RPD exceeded the laboratory control limit. See case narrative.
R3 Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
R5 MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.
S2 Surrogate recovery was above laboratory and method acceptance limits.
S4 Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
S6 Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
S7 Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.
S9 The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The method control sample recovery was acceptable.
S10 Surrogate recovery was above laboratory and method acceptance limits. See case narrative (N1).
T2 Cited ADHS licensed method does not contain this analyte as part of method compound list.

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CLIENT: URS Corporation
Project: E1-00002045.00
Lab Order: 01120691

CASE NARRATIVE

T4 Tentatively identified compound. Concentration is estimated and based on the closest internal standard.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

V2 CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.

V5 CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B.

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136 - Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc (PAL) holds the following certifications:
Arizona (certification no. AZ0610) and California (I-2410).
PAL - Tucson laboratory, Arizona certification number: AZ0609.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents, and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control objectives for the analyses included in this report.

Samples for Method 8260B were submitted in brass sleeves and extracted into methanol within 48 hours by the laboratory.

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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT: URS Corporation
Lab Order: 01120691
Project: E1-00002045.00
Lab ID: 01120691-02A

Client Sample ID: SB1-10.0
Tag Number:
Collection Date: 12/19/01 9:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	76.2	30.0		mg/Kg	1	12/22/01
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	12/22/01
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	12/22/01
Surr: O-Terphenyl	129	70-130		%REC	1	12/22/01
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SP**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2,3-Trichlorobenzene	< 0.10	0.10		mg/Kg	1	12/21/01
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2,4-Trimethylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,3,5-Trimethylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	12/21/01
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	12/21/01
2-Hexanone	< 0.25	0.25		mg/Kg	1	12/21/01
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	12/21/01
4-Isopropyltoluene	< 0.050	0.050		mg/Kg	1	12/21/01
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	12/21/01
Acetone	< 0.50	0.50		mg/Kg	1	12/21/01
Benzene	< 0.050	0.050		mg/Kg	1	12/21/01
Bromobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Bromochloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Bromoform	< 0.050	0.050		mg/Kg	1	12/21/01
Bromomethane	< 0.10	0.10		mg/Kg	1	12/21/01
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	12/21/01
Chlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Chloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
Chloroform	< 0.050	0.050		mg/Kg	1	12/21/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT: URS Corporation
Lab Order: 01120691
Project: E1-00002045.00
Lab ID: 01120691-02A

Client Sample ID: SB1-10.0
Tag Number:
Collection Date: 12/19/01 9:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: SP
Chloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Ethylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
m,p-Xylene	< 0.10	0.10		mg/Kg	1	12/21/01
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	12/21/01
Methylene chloride	< 0.10	0.10		mg/Kg	1	12/21/01
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
n-Propylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
o-Xylene	< 0.050	0.050		mg/Kg	1	12/21/01
sec-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Styrene	< 0.050	0.050		mg/Kg	1	12/21/01
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
Toluene	< 0.050	0.050		mg/Kg	1	12/21/01
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
Trichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
Trichlorofluoromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Vinyl acetate	< 0.050	0.050		mg/Kg	1	12/21/01
Vinyl chloride	< 0.050	0.050		mg/Kg	1	12/21/01
Surr: 4-Bromofluorobenzene	84.2	56.4-139		%REC	1	12/21/01
Surr: Dibromofluoromethane	82.4	59.7-130		%REC	1	12/21/01
Surr: Toluene-d8	86.3	57.8-138		%REC	1	12/21/01

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB1-15.0
Lab Order:	01120691	**Tag Number:**	
Project:	E1-00002045.00	**Collection Date:**	12/19/01 9:37:00 AM
Lab ID:	01120691-03A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	51.8	30.0		mg/Kg	1	12/21/01
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	12/21/01
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	12/21/01
Surr: O-Terphenyl	125	70-130		%REC	1	12/21/01
POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8310**				Analyst: **DCS**
Naphthalene	< 0.20	0.20		mg/Kg	1	12/28/01
Acenaphthylene	< 0.30	0.30		mg/Kg	1	12/28/01
Acenaphthene	< 0.20	0.20		mg/Kg	1	12/28/01
Fluorene	< 0.030	0.030		mg/Kg	1	12/28/01
Phenanthrene	< 0.030	0.030		mg/Kg	1	12/28/01
Anthracene	< 0.020	0.020		mg/Kg	1	12/28/01
Fluoranthene	< 0.030	0.030		mg/Kg	1	12/28/01
Pyrene	< 0.020	0.020		mg/Kg	1	12/28/01
Benz(a)anthracene	< 0.010	0.010		mg/Kg	1	12/28/01
Chrysene	< 0.020	0.020		mg/Kg	1	12/28/01
Benzo(b)fluoranthene	< 0.020	0.020		mg/Kg	1	12/28/01
Benzo(k)fluoranthene	< 0.010	0.010		mg/Kg	1	12/28/01
Benzo(a)pyrene	< 0.010	0.010		mg/Kg	1	12/28/01
Dibenz(a,h)anthracene	< 0.010	0.010		mg/Kg	1	12/28/01
Benzo(g,h,i)perylene	< 0.030	0.030		mg/Kg	1	12/28/01
Indeno(1,2,3-cd)pyrene	< 0.010	0.010		mg/Kg	1	12/28/01
Surr: 2-Chloroanthracene	68.2	13-155		%REC	1	12/28/01
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SP**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2,3-Trichlorobenzene	< 0.099	0.099		mg/Kg	1	12/21/01
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2,4-Trimethylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,3,5-Trimethylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT: URS Corporation
Lab Order: 01120691
Project: E1-00002045.00
Lab ID: 01120691-03A

Client Sample ID: SB1-15.0
Tag Number:
Collection Date: 12/19/01 9:37:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SP**
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	12/21/01
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	12/21/01
2-Hexanone	< 0.25	0.25		mg/Kg	1	12/21/01
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	12/21/01
4-Isopropyltoluene	< 0.050	0.050		mg/Kg	1	12/21/01
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	12/21/01
Acetone	< 0.50	0.50		mg/Kg	1	12/21/01
Benzene	< 0.050	0.050		mg/Kg	1	12/21/01
Bromobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Bromochloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Bromoform	< 0.050	0.050		mg/Kg	1	12/21/01
Bromomethane	< 0.099	0.099		mg/Kg	1	12/21/01
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	12/21/01
Chlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Chloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
Chloroform	< 0.050	0.050		mg/Kg	1	12/21/01
Chloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Ethylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
m,p-Xylene	< 0.099	0.099		mg/Kg	1	12/21/01
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	12/21/01
Methylene chloride	< 0.099	0.099		mg/Kg	1	12/21/01
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
n-Propylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
o-Xylene	< 0.050	0.050		mg/Kg	1	12/21/01
sec-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Styrene	< 0.050	0.050		mg/Kg	1	12/21/01
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
Toluene	< 0.050	0.050		mg/Kg	1	12/21/01
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
Trichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
Trichlorofluoromethane	< 0.050	0.050		mg/Kg	1	12/21/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB1-15.0
Lab Order:	01120691	**Tag Number:**	
Project:	E1-00002045.00	**Collection Date:**	12/19/01 9:37:00 AM
Lab ID:	01120691-03A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SP**
Vinyl acetate	< 0.050	0.050		mg/Kg	1	12/21/01
Vinyl chloride	< 0.050	0.050		mg/Kg	1	12/21/01
Surr: 4-Bromofluorobenzene	95.7	56.4-139		%REC	1	12/21/01
Surr: Dibromofluoromethane	92.6	59.7-130		%REC	1	12/21/01
Surr: Toluene-d8	99.2	57.8-138		%REC	1	12/21/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB1-20.0
Lab Order:	01120691	**Tag Number:**	
Project:	E1-00002045.00	**Collection Date:**	12/19/01 9:46:00 AM
Lab ID:	01120691-04A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	2310	300	D2	mg/Kg	10	12/22/01
Oil Hydrocarbons: C22-C32	132	100		mg/Kg	1	12/21/01
Fuel Hydrocarbons, C10-C32	2440	1300	D2	mg/Kg	10	12/22/01
Surr: O-Terphenyl	118	70-130		%REC	1	12/21/01
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SP**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2,3-Trichlorobenzene	< 0.099	0.099		mg/Kg	1	12/21/01
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2,4-Trimethylbenzene	86	0.99	D2	mg/Kg	20	12/26/01
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,3,5-Trimethylbenzene	57	0.99	D2	mg/Kg	20	12/26/01
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	12/21/01
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	12/21/01
2-Hexanone	< 0.25	0.25		mg/Kg	1	12/21/01
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	12/21/01
4-Isopropyltoluene	3.1	0.050		mg/Kg	1	12/21/01
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	12/21/01
Acetone	< 0.50	0.50		mg/Kg	1	12/21/01
Benzene	< 0.050	0.050		mg/Kg	1	12/21/01
Bromobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Bromochloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Bromoform	< 0.050	0.050		mg/Kg	1	12/21/01
Bromomethane	< 0.099	0.099		mg/Kg	1	12/21/01
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	12/21/01
Chlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Chloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
Chloroform	< 0.050	0.050		mg/Kg	1	12/21/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB1-20.0
Lab Order:	01120691	**Tag Number:**	
Project:	E1-00002045.00	**Collection Date:**	12/19/01 9:46:00 AM
Lab ID:	01120691-04A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SP**
Chloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Ethylbenzene	9.4	0.050		mg/Kg	1	12/21/01
m,p-Xylene	27	2.0	D2	mg/Kg	20	12/26/01
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	12/21/01
Methylene chloride	< 0.099	0.099		mg/Kg	1	12/21/01
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
n-Propylbenzene	28	0.99	D2	mg/Kg	20	12/26/01
o-Xylene	11	0.99	D2	mg/Kg	20	12/26/01
sec-Butylbenzene	4.7	0.050		mg/Kg	1	12/21/01
Styrene	< 0.050	0.050		mg/Kg	1	12/21/01
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
Toluene	0.086	0.050		mg/Kg	1	12/21/01
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
Trichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
Trichlorofluoromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Vinyl acetate	< 0.050	0.050		mg/Kg	1	12/21/01
Vinyl chloride	< 0.050	0.050		mg/Kg	1	12/21/01
Surr: 4-Bromofluorobenzene	99.2	56.4-139		%REC	1	12/21/01
Surr: Dibromofluoromethane	92.9	59.7-130		%REC	1	12/21/01
Surr: Toluene-d8	98.7	57.8-138		%REC	1	12/21/01

Qualifiers:

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* - Value exceeds Maximum Contaminant Level
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R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB1-25.0
Lab Order:	01120691	**Tag Number:**	
Project:	E1-00002045.00	**Collection Date:**	12/19/01 10:01:00 AM
Lab ID:	01120691-05A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	834	300	D2	mg/Kg	10	12/22/01
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	12/21/01
Fuel Hydrocarbons, C10-C32	834	1300	D2	mg/Kg	10	12/22/01
Surr: O-Terphenyl	97.7	70-130		%REC	1	12/21/01
POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8310**				Analyst: **DCS**
Naphthalene	0.86	0.20		mg/Kg	1	12/28/01
Acenaphthylene	< 0.30	0.30		mg/Kg	1	12/28/01
Acenaphthene	< 0.20	0.20		mg/Kg	1	12/28/01
Fluorene	0.13	0.030		mg/Kg	1	12/28/01
Phenanthrene	0.44	0.060	D2	mg/Kg	2	1/2/02
Anthracene	0.042	0.020		mg/Kg	1	12/28/01
Fluoranthene	< 0.030	0.030		mg/Kg	1	12/28/01
Pyrene	0.024	0.020		mg/Kg	1	12/28/01
Benz(a)anthracene	< 0.010	0.010		mg/Kg	1	12/28/01
Chrysene	< 0.020	0.020		mg/Kg	1	12/28/01
Benzo(b)fluoranthene	< 0.020	0.020		mg/Kg	1	12/28/01
Benzo(k)fluoranthene	< 0.010	0.010		mg/Kg	1	12/28/01
Benzo(a)pyrene	< 0.010	0.010		mg/Kg	1	12/28/01
Dibenz(a,h)anthracene	< 0.010	0.010		mg/Kg	1	12/28/01
Benzo(g,h,i)perylene	< 0.030	0.030		mg/Kg	1	12/28/01
Indeno(1,2,3-cd)pyrene	< 0.010	0.010		mg/Kg	1	12/28/01
Surr: 2-Chloroanthracene	62.8	13-155		%REC	1	12/28/01
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SP**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2,3-Trichlorobenzene	< 0.10	0.10		mg/Kg	1	12/21/01
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2,4-Trimethylbenzene	1.1	0.050		mg/Kg	1	12/21/01
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
1,3,5-Trimethylbenzene	14	0.50	D2	mg/Kg	10	12/26/01
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT: URS Corporation
Lab Order: 01120691
Project: E1-00002045.00
Lab ID: 01120691-05A

Client Sample ID: SB1-25.0
Tag Number:
Collection Date: 12/19/01 10:01:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SP**
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	12/21/01
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	12/21/01
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	12/21/01
2-Hexanone	< 0.25	0.25		mg/Kg	1	12/21/01
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	12/21/01
4-Isopropyltoluene	1.9	0.050		mg/Kg	1	12/21/01
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	12/21/01
Acetone	< 0.50	0.50		mg/Kg	1	12/21/01
Benzene	< 0.050	0.050		mg/Kg	1	12/21/01
Bromobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Bromochloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Bromoform	< 0.050	0.050		mg/Kg	1	12/21/01
Bromomethane	< 0.10	0.10		mg/Kg	1	12/21/01
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	12/21/01
Chlorobenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Chloroethane	< 0.050	0.050		mg/Kg	1	12/21/01
Chloroform	< 0.050	0.050		mg/Kg	1	12/21/01
Chloromethane	< 0.50	0.50		mg/Kg	1	12/21/01
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	12/21/01
Ethylbenzene	2.7	0.050		mg/Kg	1	12/21/01
m,p-Xylene	3.0	0.10		mg/Kg	1	12/21/01
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	12/21/01
Methylene chloride	< 0.10	0.10		mg/Kg	1	12/21/01
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
n-Propylbenzene	9.1	0.050		mg/Kg	1	12/21/01
o-Xylene	1.1	0.050		mg/Kg	1	12/21/01
sec-Butylbenzene	3.7	0.050		mg/Kg	1	12/21/01
Styrene	< 0.050	0.050		mg/Kg	1	12/21/01
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	12/21/01
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
Toluene	< 0.050	0.050		mg/Kg	1	12/21/01
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	12/21/01
Trichloroethene	< 0.050	0.050		mg/Kg	1	12/21/01
Trichlorofluoromethane	< 0.050	0.050		mg/Kg	1	12/21/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
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E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB1-25.0
Lab Order:	01120691	**Tag Number:**	
Project:	E1-00002045.00	**Collection Date:**	12/19/01 10:01:00 AM
Lab ID:	01120691-05A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SP**
Vinyl acetate	< 0.050	0.050		mg/Kg	1	12/21/01
Vinyl chloride	< 0.050	0.050		mg/Kg	1	12/21/01
Surr: 4-Bromofluorobenzene	85.8	56.4-139		%REC	1	12/21/01
Surr: Dibromofluoromethane	80.5	59.7-130		%REC	1	12/21/01
Surr: Toluene-d8	84.4	57.8-138		%REC	1	12/21/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
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Precision Analytical Laboratories, Inc.

07-Jan-02

Lab Order: 01120691
Client: URS Corporation
Project: E1-00002045.00

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
01120691-01A	SB1-5.0	12/19/01 9:22:00 AM	Soil	Fuel Hydrocarbons, 8015AZR1		12/21/01	12/21/01
				VOLATILES by GC/MS		12/19/01	12/21/01
01120691-02A	SB1-10.0	12/19/01 9:30:00 AM		Fuel Hydrocarbons, 8015AZR1		12/21/01	12/22/01
				VOLATILES by GC/MS		12/19/01	12/21/01
01120691-03A	SB1-15.0	12/19/01 9:37:00 AM		Fuel Hydrocarbons, 8015AZR1		12/21/01	12/21/01
				POLYNUCLEAR AROMATIC HYDROCARBONS		12/26/01	12/28/01
				VOLATILES by GC/MS		12/19/01	12/21/01
01120691-04A	SB1-20.0	12/19/01 9:46:00 AM		Fuel Hydrocarbons, 8015AZR1		12/21/01	12/22/01
				Fuel Hydrocarbons, 8015AZR1		12/21/01	12/21/01
				VOLATILES by GC/MS		12/19/01	12/26/01
				VOLATILES by GC/MS		12/19/01	12/21/01
01120691-05A	SB1-25.0	12/19/01 10:01:00 AM		Fuel Hydrocarbons, 8015AZR1		12/21/01	12/21/01
				Fuel Hydrocarbons, 8015AZR1		12/21/01	12/22/01
				POLYNUCLEAR AROMATIC HYDROCARBONS		12/26/01	1/2/02
				POLYNUCLEAR AROMATIC HYDROCARBONS		12/26/01	12/28/01
				VOLATILES by GC/MS		12/19/01	12/21/01
				VOLATILES by GC/MS		12/19/01	12/26/01

Precision Analytical Laboratories, Inc.

Date: *07-Jan-02*

CLIENT: URS Corporation
Work Order: 01120691
Project: E1-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015AZ_S

Sample ID: **MB-6704** SampType: **MBLK** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **12/21/01** Run ID: **GC5_011221B**
Client ID: **ZZZZZ** Batch ID: **6704** TestNo: **8015AZR1** Analysis Date: **12/21/01** SeqNo: **190643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	< 30.0	30.0									
Oil Hydrocarbons: C22-C32	< 100	100									
Fuel Hydrocarbons, C10-C32	< 130	130									
Surr: O-Terphenyl	49.94	0	50	0	99.9	70	130	0	0		

Sample ID: **LCS-6704** SampType: **LCS** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **12/21/01** Run ID: **GC5_011221B**
Client ID: **ZZZZZ** Batch ID: **6704** TestNo: **8015AZR1** Analysis Date: **12/21/01** SeqNo: **190641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	209.8	30.0	200	0	105	70	130	0	0		
Surr: O-Terphenyl	54.95	0	50	0	110	70	130	0	0		

Sample ID: **LCSD-6704** SampType: **LCSD** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **12/21/01** Run ID: **GC5_011221B**
Client ID: **ZZZZZ** Batch ID: **6704** TestNo: **8015AZR1** Analysis Date: **12/21/01** SeqNo: **190642**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	203.2	30.0	200	0	102	70	130	209.8	3.18	35	
Surr: O-Terphenyl	53.19	0	50	0	106	70	130	0	0	0	

Sample ID: **01120756-04A MS** SampType: **MS** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **12/21/01** Run ID: **GC5_011222A**
Client ID: **ZZZZZ** Batch ID: **6704** TestNo: **8015AZR1** Analysis Date: **12/22/01** SeqNo: **190647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	212.9	30.0	200	0	106	70	130	0	0		
Surr: O-Terphenyl	54.86	0	50	0	110	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 01120691
Project: E1-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015AZ_S

Sample ID: **01120756-04A MSD** SampType: **MSD** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **12/21/01** Run ID: **GC5_011222A**
Client ID: **ZZZZZ** Batch ID: **6704** TestNo: **8015AZR1** Analysis Date: **12/22/01** SeqNo: **190648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	212.1	30.0	200	0	106	70	130	212.9	0.371	35	
Surr: O-Terphenyl	53.88	0	50	0	108	70	130	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 01120691
Project: E1-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **MB-6675** SampType: **MBLK** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **12/19/01** Run ID: **MS1_011220A**
Client ID: **ZZZZZ** Batch ID: **6675** TestNo: **SW8260B** Analysis Date: **12/20/01** SeqNo: **189571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.050	0.050	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	< 0.050	0.050	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	< 0.050	0.050	0	0	0	0	0	0	0		
1,1-Dichloroethane	< 0.050	0.050	0	0	0	0	0	0	0		
1,1-Dichloroethene	< 0.050	0.050	0	0	0	0	0	0	0		
1,1-Dichloropropene	< 0.050	0.050	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	< 0.10	0.10	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	< 0.050	0.050	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	< 0.050	0.050	0	0	0	0	0	0	0		
1,2-Dibromoethane	< 0.050	0.050	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	< 0.050	0.050	0	0	0	0	0	0	0		
1,2-Dichloroethane	< 0.050	0.050	0	0	0	0	0	0	0		
1,2-Dichloropropane	< 0.050	0.050	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	< 0.050	0.050	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	< 0.050	0.050	0	0	0	0	0	0	0		
1,3-Dichloropropane	< 0.050	0.050	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	< 0.050	0.050	0	0	0	0	0	0	0		
2,2-Dichloropropane	< 0.050	0.050	0	0	0	0	0	0	0		
2-Butanone (MEK)	< 0.25	0.25	0	0	0	0	0	0	0		
2-Chlorotoluene	< 0.050	0.050	0	0	0	0	0	0	0		
2-Hexanone	< 0.25	0.25	0	0	0	0	0	0	0		
4-Chlorotoluene	< 0.050	0.050	0	0	0	0	0	0	0		
4-Isopropyltoluene	< 0.050	0.050	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	< 0.25	0.25	0	0	0	0	0	0	0		
Acetone	< 0.50	0.50	0	0	0	0	0	0	0		
Benzene	< 0.050	0.050	0	0	0	0	0	0	0		
Bromobenzene	< 0.050	0.050	0	0	0	0	0	0	0		
Bromochloromethane	< 0.050	0.050	0	0	0	0	0	0	0		
Bromodichloromethane	< 0.050	0.050	0	0	0	0	0	0	0		
Bromoform	< 0.050	0.050	0	0	0	0	0	0	0		
Bromomethane	< 0.25	0.25	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 01120691
Project: E1-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **MB-6675** SampType: **MBLK** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **12/19/01** Run ID: **MS1_011220A**
Client ID: **ZZZZZ** Batch ID: **6675** TestNo: **SW8260B** Analysis Date: **12/20/01** SeqNo: **189571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	< 0.050	0.050	0	0	0	0	0	0	0		
Chlorobenzene	< 0.050	0.050	0	0	0	0	0	0	0		
Chloroethane	< 0.050	0.050	0	0	0	0	0	0	0		
Chloroform	< 0.050	0.050	0	0	0	0	0	0	0		
Chloromethane	< 0.50	0.50	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	< 0.050	0.050	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	< 0.050	0.050	0	0	0	0	0	0	0		
Dibromochloromethane	< 0.050	0.050	0	0	0	0	0	0	0		
Dichlorodifluoromethane	< 0.050	0.050	0	0	0	0	0	0	0		
Ethylbenzene	< 0.050	0.050	0	0	0	0	0	0	0		
m,p-Xylene	< 0.10	0.10	0	0	0	0	0	0	0		
Methyl tert-butyl ether	< 0.050	0.050	0	0	0	0	0	0	0		
Methylene chloride	< 0.10	0.10	0	0	0	0	0	0	0		
n-Butylbenzene	< 0.050	0.050	0	0	0	0	0	0	0		
n-Propylbenzene	< 0.050	0.050	0	0	0	0	0	0	0		
o-Xylene	< 0.050	0.050	0	0	0	0	0	0	0		
sec-Butylbenzene	< 0.050	0.050	0	0	0	0	0	0	0		
Styrene	< 0.050	0.050	0	0	0	0	0	0	0		
tert-Butylbenzene	< 0.050	0.050	0	0	0	0	0	0	0		
Tetrachloroethene	< 0.050	0.050	0	0	0	0	0	0	0		
Toluene	< 0.050	0.050	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	< 0.050	0.050	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	< 0.050	0.050	0	0	0	0	0	0	0		
Trichloroethene	< 0.050	0.050	0	0	0	0	0	0	0		
Trichlorofluoromethane	< 0.050	0.050	0	0	0	0	0	0	0		
Vinyl acetate	< 0.050	0.050	0	0	0	0	0	0	0		
Vinyl chloride	< 0.050	0.050	0	0	0	0	0	0	0		
Surr: 4-Bromofluorobenzene	2.338	0	2.5	0	93.5	56.4	139	0	0		
Surr: Dibromofluoromethane	2.306	0	2.5	0	92.2	59.7	130	0	0		
Surr: Toluene-d8	2.394	0	2.5	0	95.8	57.8	138	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 01120691
Project: E1-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **LCS-6675** SampType: **LCS** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **12/19/01** Run ID: **MS1_011220A**
Client ID: **ZZZZZ** Batch ID: **6675** TestNo: **SW8260B** Analysis Date: **12/20/01** SeqNo: **189572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	2.329	0.050	2.5	0	93.2	49	135	0	0		
Benzene	2.667	0.050	2.5	0	107	59	137	0	0		
Chlorobenzene	2.568	0.050	2.5	0	103	61	131	0	0		
Toluene	2.496	0.050	2.5	0	99.9	50	146	0	0		
Trichloroethene	2.41	0.050	2.5	0	96.4	55	134	0	0		
Surr: 4-Bromofluorobenzene	2.424	0	2.5	0	97	56.4	139	0	0		
Surr: Dibromofluoromethane	2.473	0	2.5	0	98.9	59.7	130	0	0		
Surr: Toluene-d8	2.57	0	2.5	0	103	57.8	138	0	0		

Sample ID: **01120691-02A MS** SampType: **MS** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **12/19/01** Run ID: **MS1_011221A**
Client ID: **SB1-10.0** Batch ID: **6675** TestNo: **SW8260B** Analysis Date: **12/21/01** SeqNo: **190973**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.821	0.050	2.522	0	72.2	49	135	0	0		
Benzene	2.414	0.050	2.522	0	95.7	59	137	0	0		
Chlorobenzene	2.413	0.050	2.522	0	95.7	61	131	0	0		
Toluene	2.267	0.050	2.522	0	89.9	50	146	0	0		
Trichloroethene	2.213	0.050	2.522	0	87.8	55	134	0	0		
Surr: 4-Bromofluorobenzene	2.291	0	2.5	0	91.7	56.4	139	0	0		
Surr: Dibromofluoromethane	2.211	0	2.5	0	88.4	59.7	130	0	0		
Surr: Toluene-d8	2.317	0	2.5	0	92.7	57.8	138	0	0		

Sample ID: **01120691-02A MSD** SampType: **MSD** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **12/19/01** Run ID: **MS1_011221A**
Client ID: **SB1-10.0** Batch ID: **6675** TestNo: **SW8260B** Analysis Date: **12/21/01** SeqNo: **190974**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	2.087	0.050	2.522	0	82.8	49	135	1.821	13.6	25	
Benzene	2.64	0.050	2.522	0	105	59	137	2.414	8.94	25	
Chlorobenzene	2.497	0.050	2.522	0	99	61	131	2.413	3.41	25	
Toluene	2.338	0.050	2.522	0	92.7	50	146	2.267	3.09	25	
Trichloroethene	2.354	0.050	2.522	0	93.4	55	134	2.213	6.18	25	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 01120691
Project: E1-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **01120691-02A MSD** SampType: **MSD** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **12/19/01** Run ID: **MS1_011221A**
Client ID: **SB1-10.0** Batch ID: **6675** TestNo: **SW8260B** Analysis Date: **12/21/01** SeqNo: **190974**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2.196	0	2.5	0	87.8	56.4	139	0	0	0	
Surr: Dibromofluoromethane	2.24	0	2.5	0	89.6	59.7	130	0	0	0	
Surr: Toluene-d8	2.269	0	2.5	0	90.8	57.8	138	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 01120691
Project: E1-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_S

Sample ID: **MB-6730** SampType: **MBLK** TestCode: **8310_S** Units: **mg/Kg** Prep Date: **12/26/01** Run ID: **HPLC1_011228A**
Client ID: **ZZZZZ** Batch ID: **6730** TestNo: **SW8310** Analysis Date: **12/28/01** SeqNo: **192894**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	< 0.20	0.20									
Acenaphthylene	< 0.30	0.30									
Acenaphthene	< 0.20	0.20									
Fluorene	< 0.030	0.030									
Phenanthrene	< 0.030	0.030									
Anthracene	< 0.020	0.020									
Fluoranthene	< 0.030	0.030									
Pyrene	< 0.020	0.020									
Benz(a)anthracene	< 0.010	0.010									
Chrysene	< 0.020	0.020									
Benzo(b)fluoranthene	< 0.020	0.020									
Benzo(k)fluoranthene	< 0.010	0.010									
Benzo(a)pyrene	< 0.010	0.010									
Dibenz(a,h)anthracene	< 0.010	0.010									
Benzo(g,h,i)perylene	< 0.030	0.030									
Indeno(1,2,3-cd)pyrene	< 0.010	0.010									
Surr: 2-Chloroanthracene	0.3502	0	0.4167	0	84	13	155	0	0		

Sample ID: **LCS-6730** SampType: **LCS** TestCode: **8310_S** Units: **mg/Kg** Prep Date: **12/26/01** Run ID: **HPLC1_011228A**
Client ID: **ZZZZZ** Batch ID: **6730** TestNo: **SW8310** Analysis Date: **12/28/01** SeqNo: **192892**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	0.9435	0.30	1.67	0	56.5	20	110	0	0		
Phenanthrene	0.051	0.030	0.0833	0	61.2	13	138	0	0		
Pyrene	0.05233	0.020	0.0833	0	62.8	25	130	0	0		
Benzo(k)fluoranthene	0.06017	0.010	0.0833	0	72.2	54	140	0	0		
Dibenz(a,h)anthracene	0.1267	0.010	0.167	0	75.8	55	125	0	0		
Surr: 2-Chloroanthracene	0.332	0	0.4167	0	79.7	13	155	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 01120691
Project: E1-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_S

Sample ID: **01120691-03A MS** SampType: **MS** TestCode: **8310_S** Units: **mg/Kg** Prep Date: **12/26/01** Run ID: **HPLC1_011228A**
Client ID: **SB1-15.0** Batch ID: **6730** TestNo: **SW8310** Analysis Date: **12/28/01** SeqNo: **192881**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	1.134	0.30	1.67	0	67.9	20	110	0	0		
Phenanthrene	0.06333	0.030	0.0833	0	76	13	138	0	0		
Pyrene	0.066	0.020	0.0833	0	79.2	25	130	0	0		
Benzo(k)fluoranthene	0.0705	0.010	0.0833	0	84.6	54	140	0	0		
Dibenz(a,h)anthracene	0.1418	0.010	0.167	0	84.9	55	125	0	0		
Surr: 2-Chloroanthracene	0.3515	0	0.4167	0	84.4	13	155	0	0		

Sample ID: **01120691-03A MSD** SampType: **MSD** TestCode: **8310_S** Units: **mg/Kg** Prep Date: **12/26/01** Run ID: **HPLC1_011228A**
Client ID: **SB1-15.0** Batch ID: **6730** TestNo: **SW8310** Analysis Date: **12/28/01** SeqNo: **192882**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	0.9147	0.30	1.67	0	54.8	20	110	1.134	21.4	35	
Phenanthrene	0.053	0.030	0.0833	0	63.6	13	138	0.06333	17.8	35	
Pyrene	0.05483	0.020	0.0833	0	65.8	25	130	0.066	18.5	35	
Benzo(k)fluoranthene	0.059	0.010	0.0833	0	70.8	54	140	0.0705	17.8	35	
Dibenz(a,h)anthracene	0.1195	0.010	0.167	0	71.6	55	125	0.1418	17.1	35	
Surr: 2-Chloroanthracene	0.3425	0	0.4167	0	82.2	13	155	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

Precision Analytical Laboratories, Inc.

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[ ] North Phoenix- 2020 West Lone Cactus Drive, Phoenix, AZ 85027 (623) 780-4800 FAX (623) 780-7695
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www.palabs.com or call toll-free 1-866-7PALABS (1-866-772-5227)

LAB ID NUMBER: 0-112-0691

Page 1 of 1

Client:	URS	E-Mail Address:	
Address:	7720 N. 16 ST., Suite 100	Fax Results:	(Y) N
City, State, Zip:	Phoenix AZ 85020	E-Mail Results:	Y (N)
Contact:	David Palmer	**TAT Request**	
Phone:	(602) 861-7460	24 Hours	48 Hours
Fax:	(602) 371-1618	72 Hours	5 Day
Sampler:	David Palmer	Laboratory Approval Required for RUSH Analyses Surcharges May Apply	
P.O. Number:	EI-0000 2045.00	(Standard 10 Day)	

Sample Information

Lab #	Sample Type	Sample Identification	Date	Time	Qty	TPH 8015AZ RI	VOCs EPA 8260B
01	SOIL	SB1-5.0	12/19/01	0922	2	X	X
02	SOIL	SB1-10.0	12/19/01	0930	2	X	X
03	SOIL	SB1-15.0	12/19/01	0937	2	X	X
04	SOIL	SB1-20.0	12/19/01	0946	2	X	X
05	SOIL	SB1-25.0	12/19/01	1001	2	X	X

David Palmer

Project Name:

Project Number:

Instructions/Special Requirements:

Date	Time	Relinquished By:	Company	Received By:	Company
12/19/01	1640	David Palmer / David P Palmer	URS	[illegible]	PAL

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

January 30, 2002

FEB 04 2002

David Palmer
URS Corporation
7720 N. 16th Street, Suite 100
Phoenix, AZ 85020

TEL: (602) 861-7460
FAX (602) 371-1615

RE: Webster/EI-00002045.00

Order No.: 02010498

Dear David Palmer:

Precision Analytical Laboratories, Inc. received 19 samples on 1/15/2002 for the analyses presented in the following report.

This report includes the following information:
- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Sandy Lee Nash

FOR Marcia A. Smith
Vice President - Client Services

Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT: URS Corporation
Project: Webster/EI-00002045.00
Lab Order: 02010498

CASE NARRATIVE

Data Qualifiers:

Listed below are data qualifiers which may be used in your analytical report to explain any analytical or quality control issues. If one or more of the following data qualifiers is associated with your analytical or quality control data it will be noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

B1 Target analyte detected in method blank at or above the method reporting limit.
D1 Sample required dilution due to matrix interference.
D2 Sample required dilution due to high concentration of target analyte.
D3 Sample dilution required due to insufficient sample.
D4 Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed.
E1 Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
E2 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E3 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
E4 Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
E6 Concentration estimated. Internal standard recoveries did not meet method acceptance criteria.
E7 Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
H1 Sample analysis performed past holding time. See case narrative.
H2 Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3 Sample was received and analyzed past holding time.
H4 Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
K1 The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. The reported result is an estimated value.
K2 The sample dilutions set up for the BOD analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/L. The reported result is estimated.
L1 The associated blank spike recovery was above laboratory acceptance limits. See case narrative.
L2 The associated blank spike recovery was below laboratory acceptance limits. See case narrative.

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CLIENT: URS Corporation
Project: Webster/EI-00002045.00
Lab Order: 02010498

CASE NARRATIVE

M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
M2 Matrix spike recovery was low, the method control sample recovery was acceptable.
M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
M4 The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
M5 Analyte concentration was determined by the method of standard addition (MSA).
N1 See case narrative.
Q1 Sample integrity was not maintained. See case narrative.
Q2 Sample received with head space.
Q3 Sample received with improper chemical preservation.
Q5 Sample received without chemical preservation, but preserved by the laboratory.
Q6 Sample was received above recommended temperature.
Q7 Sample inadequately dechlorinated.
Q8 Insufficient sample received to meet method QC requirements. QC requirements satisfy ADEQ policies 0154 and 0155.
Q10 Sample received in inappropriate sample container.
Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.
R2 RPD exceeded the laboratory control limit. See case narrative.
R3 Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
R5 MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.
S2 Surrogate recovery was above laboratory and method acceptance limits.
S4 Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
S6 Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
S7 Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.
S9 The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The method control sample recovery was acceptable.
S10 Surrogate recovery was above laboratory and method acceptance limits. See case narrative (N1).
T2 Cited ADHS licensed method does not contain this analyte as part of method compound list.

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CLIENT: URS Corporation
Project: Webster/EI-00002045.00
Lab Order: 02010498

CASE NARRATIVE

T4 Tentatively identified compound. Concentration is estimated and based on the closest internal standard.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

V2 CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.

V5 CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B.

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136 - Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc (PAL) holds the following certifications:
Arizona (certification no. AZ0610) and California (I-2410).
PAL - Tucson laboratory, Arizona certification number: AZ0609.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents, and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control objectives for the analyses included in this report.

Soil samples were received in EnCore samplers and extracted within 48 hours of sampling.

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Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB2-5.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 8:50:00 AM
Lab ID:	02010498-01A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	87.4	70-130		%REC	1	1/17/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB2-10.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 9:00:00 AM
Lab ID:	02010498-02A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	609	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	281	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	890	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	91.4	70-130		%REC	1	1/17/2002

Qualifiers:

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B - Analyte detected in the associated Method Blank

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB2-15.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 9:10:00 AM
Lab ID:	02010498-03A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	1560	150		mg/Kg	5	1/17/2002
Oil Hydrocarbons: C22-C32	711	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	2270	650		mg/Kg	5	1/17/2002
Surr: O-Terphenyl	95.4	70-130		%REC	1	1/17/2002

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB2-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 9:20:00 AM
Lab ID:	02010498-04A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	1390	60.0		mg/Kg	2	1/17/2002
Oil Hydrocarbons: C22-C32	1710	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	3100	260		mg/Kg	2	1/17/2002
Surr: O-Terphenyl	71.5	70-130		%REC	1	1/17/2002
POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8310**				Analyst: **CL**
Naphthalene	< 0.40	0.40	D1	mg/Kg	2	1/28/2002
Acenaphthylene	< 0.60	0.60	D1	mg/Kg	2	1/28/2002
Acenaphthene	< 0.40	0.40	D1	mg/Kg	2	1/28/2002
Fluorene	< 0.060	0.060	D1	mg/Kg	2	1/28/2002
Phenanthrene	< 0.060	0.060	D1	mg/Kg	2	1/28/2002
Anthracene	< 0.040	0.040	D1	mg/Kg	2	1/28/2002
Fluoranthene	< 0.060	0.060	D1	mg/Kg	2	1/28/2002
Pyrene	< 0.040	0.040	D1	mg/Kg	2	1/28/2002
Benz(a)anthracene	< 0.020	0.020	D1	mg/Kg	2	1/28/2002
Chrysene	< 0.040	0.040	D1	mg/Kg	2	1/28/2002
Benzo(b)fluoranthene	< 0.040	0.040	D1	mg/Kg	2	1/28/2002
Benzo(k)fluoranthene	< 0.020	0.020	D1	mg/Kg	2	1/28/2002
Benzo(a)pyrene	< 0.020	0.020	D1	mg/Kg	2	1/28/2002
Dibenz(a,h)anthracene	< 0.020	0.020	D1	mg/Kg	2	1/28/2002
Benzo(g,h,i)perylene	< 0.060	0.060	D1	mg/Kg	2	1/28/2002
Indeno(1,2,3-cd)pyrene	< 0.020	0.020	D1	mg/Kg	2	1/28/2002
Surr: 2-Chloroanthracene	62.9	13-155		%REC	2	1/28/2002
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,3-Trichlorobenzene	< 0.10	0.10		mg/Kg	1	1/23/2002
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,4-Trimethylbenzene	0.13	0.050		mg/Kg	1	1/23/2002
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3,5-Trimethylbenzene	0.078	0.050		mg/Kg	1	1/23/2002
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB2-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 9:20:00 AM
Lab ID:	02010498-04A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	1/23/2002
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Hexanone	< 0.25	0.25		mg/Kg	1	1/23/2002
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
4-Isopropyltoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	1/23/2002
Acetone	< 0.50	0.50		mg/Kg	1	1/23/2002
Benzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromoform	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromomethane	< 0.10	0.10		mg/Kg	1	1/23/2002
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Chlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroform	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloromethane	< 0.25	0.25		mg/Kg	1	1/23/2002
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Ethylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
m,p-Xylene	0.13	0.10		mg/Kg	1	1/23/2002
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	1/23/2002
Methylene chloride	< 0.10	0.10		mg/Kg	1	1/23/2002
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
n-Propylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
o-Xylene	< 0.050	0.050		mg/Kg	1	1/23/2002
sec-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Styrene	< 0.050	0.050		mg/Kg	1	1/23/2002
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Toluene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichlorofluoromethane	0.056	0.050		mg/Kg	1	1/23/2002

Qualifiers:
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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB2-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 9:20:00 AM
Lab ID:	02010498-04A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
Vinyl acetate	< 0.050	0.050		mg/Kg	1	1/23/2002
Vinyl chloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Surr: 4-Bromofluorobenzene	94.9	56.4-139		%REC	1	1/23/2002
Surr: Dibromofluoromethane	89.3	59.7-130		%REC	1	1/23/2002
Surr: Toluene-d8	94.4	57.8-138		%REC	1	1/23/2002

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB2-25.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 9:35:00 AM
Lab ID:	02010498-05A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,3-Trichlorobenzene	< 0.099	0.099		mg/Kg	1	1/23/2002
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,4-Trimethylbenzene	4.5	0.050		mg/Kg	1	1/23/2002
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3,5-Trimethylbenzene	6.4	0.050		mg/Kg	1	1/23/2002
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	1/23/2002
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Hexanone	< 0.25	0.25		mg/Kg	1	1/23/2002
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
4-Isopropyltoluene	0.53	0.050		mg/Kg	1	1/23/2002
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	1/23/2002
Acetone	< 0.50	0.50		mg/Kg	1	1/23/2002
Benzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromoform	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromomethane	< 0.099	0.099		mg/Kg	1	1/23/2002
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Chlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroform	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloromethane	< 0.25	0.25		mg/Kg	1	1/23/2002
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	1/23/2002

Qualifiers:

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Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB2-25.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 9:35:00 AM
Lab ID:	02010498-05A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
Ethylbenzene	1.0	0.050		mg/Kg	1	1/23/2002
m,p-Xylene	3.2	0.099		mg/Kg	1	1/23/2002
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	1/23/2002
Methylene chloride	< 0.099	0.099		mg/Kg	1	1/23/2002
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
n-Propylbenzene	3.3	0.050		mg/Kg	1	1/23/2002
o-Xylene	1.3	0.050		mg/Kg	1	1/23/2002
sec-Butylbenzene	0.97	0.050		mg/Kg	1	1/23/2002
Styrene	< 0.050	0.050		mg/Kg	1	1/23/2002
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Toluene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichlorofluoromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Vinyl acetate	< 0.050	0.050		mg/Kg	1	1/23/2002
Vinyl chloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Surr: 4-Bromofluorobenzene	97.4	56.4-139		%REC	1	1/23/2002
Surr: Dibromofluoromethane	95.2	59.7-130		%REC	1	1/23/2002
Surr: Toluene-d8	95.7	57.8-138		%REC	1	1/23/2002

Qualifiers:
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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB3-5.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 10:20:00 AM
Lab ID:	02010498-06A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	89.6	70-130		%REC	1	1/17/2002

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB3-10.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 10:30:00 AM
Lab ID:	02010498-07A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	355	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	214	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	569	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	104	70-130		%REC	1	1/17/2002

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Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB3-15.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 10:42:00 AM
Lab ID:	02010498-08A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	95.0	70-130		%REC	1	1/17/2002

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Precision Analytical Laboratories, Inc.

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB3-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 10:55:00 AM
Lab ID:	02010498-09A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	41.3	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	92.8	70-130		%REC	1	1/17/2002
POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8310**				Analyst: **CL**
Naphthalene	< 0.20	0.20		mg/Kg	1	1/28/2002
Acenaphthylene	< 0.30	0.30		mg/Kg	1	1/28/2002
Acenaphthene	< 0.20	0.20		mg/Kg	1	1/28/2002
Fluorene	< 0.030	0.030		mg/Kg	1	1/28/2002
Phenanthrene	< 0.030	0.030		mg/Kg	1	1/28/2002
Anthracene	< 0.020	0.020		mg/Kg	1	1/28/2002
Fluoranthene	< 0.030	0.030		mg/Kg	1	1/28/2002
Pyrene	< 0.020	0.020		mg/Kg	1	1/28/2002
Benz(a)anthracene	< 0.010	0.010		mg/Kg	1	1/28/2002
Chrysene	< 0.020	0.020		mg/Kg	1	1/28/2002
Benzo(b)fluoranthene	< 0.020	0.020		mg/Kg	1	1/28/2002
Benzo(k)fluoranthene	< 0.010	0.010		mg/Kg	1	1/28/2002
Benzo(a)pyrene	< 0.010	0.010		mg/Kg	1	1/28/2002
Dibenz(a,h)anthracene	< 0.010	0.010		mg/Kg	1	1/28/2002
Benzo(g,h,i)perylene	< 0.030	0.030		mg/Kg	1	1/28/2002
Indeno(1,2,3-cd)pyrene	< 0.010	0.010		mg/Kg	1	1/28/2002
Surr: 2-Chloroanthracene	61.4	13-155		%REC	1	1/28/2002
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,3-Trichlorobenzene	< 0.10	0.10		mg/Kg	1	1/23/2002
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,4-Trimethylbenzene	0.43	0.050		mg/Kg	1	1/23/2002
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3,5-Trimethylbenzene	0.22	0.050		mg/Kg	1	1/23/2002
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002

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Precision Analytical Laboratories, Inc.

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB3-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 10:55:00 AM
Lab ID:	02010498-09A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	1/23/2002
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Hexanone	< 0.25	0.25		mg/Kg	1	1/23/2002
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
4-Isopropyltoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	1/23/2002
Acetone	< 0.50	0.50		mg/Kg	1	1/23/2002
Benzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromoform	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromomethane	< 0.10	0.10		mg/Kg	1	1/23/2002
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Chlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroform	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloromethane	< 0.25	0.25		mg/Kg	1	1/23/2002
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Ethylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
m,p-Xylene	< 0.10	0.10		mg/Kg	1	1/23/2002
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	1/23/2002
Methylene chloride	< 0.10	0.10		mg/Kg	1	1/23/2002
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
n-Propylbenzene	0.055	0.050		mg/Kg	1	1/23/2002
o-Xylene	< 0.050	0.050		mg/Kg	1	1/23/2002
sec-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Styrene	< 0.050	0.050		mg/Kg	1	1/23/2002
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Toluene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichlorofluoromethane	0.060	0.050		mg/Kg	1	1/23/2002

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB3-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 10:55:00 AM
Lab ID:	02010498-09A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
Vinyl acetate	< 0.050	0.050		mg/Kg	1	1/23/2002
Vinyl chloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Surr: 4-Bromofluorobenzene	99.4	56.4-139		%REC	1	1/23/2002
Surr: Dibromofluoromethane	93.0	59.7-130		%REC	1	1/23/2002
Surr: Toluene-d8	97.2	57.8-138		%REC	1	1/23/2002

Qualifiers:

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Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB3-25.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 11:07:00 AM
Lab ID:	02010498-10A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	69.6	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	115	70-130		%REC	1	1/17/2002
POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8310**				Analyst: **CL**
Naphthalene	< 0.20	0.20		mg/Kg	1	1/28/2002
Acenaphthylene	< 0.30	0.30		mg/Kg	1	1/28/2002
Acenaphthene	< 0.20	0.20		mg/Kg	1	1/28/2002
Fluorene	< 0.030	0.030		mg/Kg	1	1/28/2002
Phenanthrene	< 0.030	0.030		mg/Kg	1	1/28/2002
Anthracene	< 0.020	0.020		mg/Kg	1	1/28/2002
Fluoranthene	< 0.030	0.030		mg/Kg	1	1/28/2002
Pyrene	< 0.020	0.020		mg/Kg	1	1/28/2002
Benz(a)anthracene	< 0.010	0.010		mg/Kg	1	1/28/2002
Chrysene	< 0.020	0.020		mg/Kg	1	1/28/2002
Benzo(b)fluoranthene	< 0.020	0.020		mg/Kg	1	1/28/2002
Benzo(k)fluoranthene	< 0.010	0.010		mg/Kg	1	1/28/2002
Benzo(a)pyrene	< 0.010	0.010		mg/Kg	1	1/28/2002
Dibenz(a,h)anthracene	< 0.010	0.010		mg/Kg	1	1/28/2002
Benzo(g,h,i)perylene	< 0.030	0.030		mg/Kg	1	1/28/2002
Indeno(1,2,3-cd)pyrene	< 0.010	0.010		mg/Kg	1	1/28/2002
Surr: 2-Chloroanthracene	55.8	13-155		%REC	1	1/28/2002
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,3-Trichlorobenzene	< 0.10	0.10		mg/Kg	1	1/23/2002
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,4-Trimethylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3,5-Trimethylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB3-25.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 11:07:00 AM
Lab ID:	02010498-10A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	1/23/2002
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Hexanone	< 0.25	0.25		mg/Kg	1	1/23/2002
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
4-Isopropyltoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	1/23/2002
Acetone	< 0.50	0.50		mg/Kg	1	1/23/2002
Benzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromoform	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromomethane	< 0.10	0.10		mg/Kg	1	1/23/2002
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Chlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroform	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloromethane	< 0.25	0.25		mg/Kg	1	1/23/2002
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Ethylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
m,p-Xylene	< 0.10	0.10		mg/Kg	1	1/23/2002
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	1/23/2002
Methylene chloride	< 0.10	0.10		mg/Kg	1	1/23/2002
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
n-Propylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
o-Xylene	< 0.050	0.050		mg/Kg	1	1/23/2002
sec-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Styrene	< 0.050	0.050		mg/Kg	1	1/23/2002
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Toluene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichlorofluoromethane	0.087	0.050		mg/Kg	1	1/23/2002

Qualifiers:

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB3-25.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 11:07:00 AM
Lab ID:	02010498-10A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
Vinyl acetate	< 0.050	0.050		mg/Kg	1	1/23/2002
Vinyl chloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Surr: 4-Bromofluorobenzene	102	56.4-139		%REC	1	1/23/2002
Surr: Dibromofluoromethane	93.7	59.7-130		%REC	1	1/23/2002
Surr: Toluene-d8	98.9	57.8-138		%REC	1	1/23/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB4-5.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 11:45:00 AM
Lab ID:	02010498-11A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	109	70-130		%REC	1	1/17/2002

Qualifiers:

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB4-10.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 11:55:00 AM
Lab ID:	02010498-12A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	94.7	70-130		%REC	1	1/17/2002

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R - RPD outside accepted recovery limits
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Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB4-15.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 12:05:00 PM
Lab ID:	02010498-13A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	98.5	70-130		%REC	1	1/17/2002
POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8310**				Analyst: **CL**
Naphthalene	< 0.20	0.20		mg/Kg	1	1/28/2002
Acenaphthylene	< 0.30	0.30		mg/Kg	1	1/28/2002
Acenaphthene	< 0.20	0.20		mg/Kg	1	1/28/2002
Fluorene	< 0.030	0.030		mg/Kg	1	1/28/2002
Phenanthrene	< 0.030	0.030		mg/Kg	1	1/28/2002
Anthracene	< 0.020	0.020		mg/Kg	1	1/28/2002
Fluoranthene	< 0.030	0.030		mg/Kg	1	1/28/2002
Pyrene	< 0.020	0.020		mg/Kg	1	1/28/2002
Benz(a)anthracene	< 0.010	0.010		mg/Kg	1	1/28/2002
Chrysene	< 0.020	0.020		mg/Kg	1	1/28/2002
Benzo(b)fluoranthene	< 0.020	0.020		mg/Kg	1	1/28/2002
Benzo(k)fluoranthene	< 0.010	0.010		mg/Kg	1	1/28/2002
Benzo(a)pyrene	< 0.010	0.010		mg/Kg	1	1/28/2002
Dibenz(a,h)anthracene	< 0.010	0.010		mg/Kg	1	1/28/2002
Benzo(g,h,i)perylene	< 0.030	0.030		mg/Kg	1	1/28/2002
Indeno(1,2,3-cd)pyrene	< 0.010	0.010		mg/Kg	1	1/28/2002
Surr: 2-Chloroanthracene	60.9	13-155		%REC	1	1/28/2002
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,3-Trichlorobenzene	< 0.10	0.10		mg/Kg	1	1/23/2002
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,4-Trimethylbenzene	13	0.10	D2	mg/Kg	2	1/24/2002
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3,5-Trimethylbenzene	9.5	0.050		mg/Kg	1	1/23/2002
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB4-15.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 12:05:00 PM
Lab ID:	02010498-13A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	1/23/2002
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Hexanone	< 0.25	0.25		mg/Kg	1	1/23/2002
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
4-Isopropyltoluene	0.76	0.050		mg/Kg	1	1/23/2002
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	1/23/2002
Acetone	< 0.50	0.50		mg/Kg	1	1/23/2002
Benzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromoform	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromomethane	< 0.10	0.10		mg/Kg	1	1/23/2002
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Chlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroform	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloromethane	< 0.25	0.25		mg/Kg	1	1/23/2002
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Ethylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
m,p-Xylene	0.24	0.10		mg/Kg	1	1/23/2002
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	1/23/2002
Methylene chloride	< 0.10	0.10		mg/Kg	1	1/23/2002
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
n-Propylbenzene	0.28	0.050		mg/Kg	1	1/23/2002
o-Xylene	< 0.050	0.050		mg/Kg	1	1/23/2002
sec-Butylbenzene	0.72	0.050		mg/Kg	1	1/23/2002
Styrene	< 0.050	0.050		mg/Kg	1	1/23/2002
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Toluene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichlorofluoromethane	< 0.050	0.050		mg/Kg	1	1/23/2002

Qualifiers:

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB4-15.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 12:05:00 PM
Lab ID:	02010498-13A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
Vinyl acetate	< 0.050	0.050		mg/Kg	1	1/23/2002
Vinyl chloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Surr: 4-Bromofluorobenzene	93.3	56.4-139		%REC	1	1/23/2002
Surr: Dibromofluoromethane	89.3	59.7-130		%REC	1	1/23/2002
Surr: Toluene-d8	91.2	57.8-138		%REC	1	1/23/2002

Qualifiers:

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Precision Analytical Laboratories, Inc.

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Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB4-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 12:15:00 PM
Lab ID:	02010498-14A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	537	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	537	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	101	70-130		%REC	1	1/17/2002
POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8310**				Analyst: **CL**
Naphthalene	0.96	0.20		mg/Kg	1	1/29/2002
Acenaphthylene	< 0.30	0.30		mg/Kg	1	1/29/2002
Acenaphthene	< 0.20	0.20		mg/Kg	1	1/29/2002
Fluorene	0.088	0.030		mg/Kg	1	1/29/2002
Phenanthrene	0.29	0.030		mg/Kg	1	1/29/2002
Anthracene	< 0.020	0.020		mg/Kg	1	1/29/2002
Fluoranthene	< 0.030	0.030		mg/Kg	1	1/29/2002
Pyrene	< 0.020	0.020		mg/Kg	1	1/29/2002
Benz(a)anthracene	< 0.010	0.010		mg/Kg	1	1/29/2002
Chrysene	< 0.020	0.020		mg/Kg	1	1/29/2002
Benzo(b)fluoranthene	< 0.020	0.020		mg/Kg	1	1/29/2002
Benzo(k)fluoranthene	< 0.010	0.010		mg/Kg	1	1/29/2002
Benzo(a)pyrene	< 0.010	0.010		mg/Kg	1	1/29/2002
Dibenz(a,h)anthracene	< 0.010	0.010		mg/Kg	1	1/29/2002
Benzo(g,h,i)perylene	< 0.030	0.030		mg/Kg	1	1/29/2002
Indeno(1,2,3-cd)pyrene	< 0.010	0.010		mg/Kg	1	1/29/2002
Surr: 2-Chloroanthracene	54.3	13-155		%REC	1	1/29/2002
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,1,1-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2,2-Tetrachloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1,2-Trichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,1-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,3-Trichlorobenzene	< 0.10	0.10		mg/Kg	1	1/23/2002
1,2,3-Trichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2,4-Trimethylbenzene	5.6	0.050		mg/Kg	1	1/23/2002
1,2-Dibromoethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3,5-Trimethylbenzene	6.0	0.050		mg/Kg	1	1/23/2002
1,3-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
1,3-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

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* - Value exceeds Maximum Contaminant Level

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB4-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 12:15:00 PM
Lab ID:	02010498-14A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
1,4-Dichlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
2,2-Dichloropropane	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Butanone (MEK)	< 0.25	0.25		mg/Kg	1	1/23/2002
2-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
2-Hexanone	< 0.25	0.25		mg/Kg	1	1/23/2002
4-Chlorotoluene	< 0.050	0.050		mg/Kg	1	1/23/2002
4-Isopropyltoluene	0.98	0.050		mg/Kg	1	1/23/2002
4-Methyl-2-pentanone	< 0.25	0.25		mg/Kg	1	1/23/2002
Acetone	< 0.50	0.50		mg/Kg	1	1/23/2002
Benzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromodichloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromoform	< 0.050	0.050		mg/Kg	1	1/23/2002
Bromomethane	< 0.10	0.10		mg/Kg	1	1/23/2002
Carbon tetrachloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Chlorobenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloroform	< 0.050	0.050		mg/Kg	1	1/23/2002
Chloromethane	< 0.25	0.25		mg/Kg	1	1/23/2002
cis-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
cis-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Dibromochloromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Dichlorodifluoromethane	< 0.050	0.050		mg/Kg	1	1/23/2002
Ethylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
m,p-Xylene	0.17	0.10		mg/Kg	1	1/23/2002
Methyl tert-butyl ether	< 0.050	0.050		mg/Kg	1	1/23/2002
Methylene chloride	< 0.10	0.10		mg/Kg	1	1/23/2002
n-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
n-Propylbenzene	1.2	0.050		mg/Kg	1	1/23/2002
o-Xylene	< 0.050	0.050		mg/Kg	1	1/23/2002
sec-Butylbenzene	1.6	0.050		mg/Kg	1	1/23/2002
Styrene	< 0.050	0.050		mg/Kg	1	1/23/2002
tert-Butylbenzene	< 0.050	0.050		mg/Kg	1	1/23/2002
Tetrachloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Toluene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,2-Dichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
trans-1,3-Dichloropropene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichloroethene	< 0.050	0.050		mg/Kg	1	1/23/2002
Trichlorofluoromethane	< 0.050	0.050		mg/Kg	1	1/23/2002

Qualifiers:

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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB4-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 12:15:00 PM
Lab ID:	02010498-14A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JG**
Vinyl acetate	< 0.050	0.050		mg/Kg	1	1/23/2002
Vinyl chloride	< 0.050	0.050		mg/Kg	1	1/23/2002
Surr: 4-Bromofluorobenzene	101	56.4-139		%REC	1	1/23/2002
Surr: Dibromofluoromethane	94.3	59.7-130		%REC	1	1/23/2002
Surr: Toluene-d8	97.6	57.8-138		%REC	1	1/23/2002

Qualifiers:

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* - Value exceeds Maximum Contaminant Level
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E - Value above quantitation range

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Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB4-25.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 12:23:00 PM
Lab ID:	02010498-15A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	111	70-130		%REC	1	1/17/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB5-5.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 1:00:00 PM
Lab ID:	02010498-16A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	94.2	70-130		%REC	1	1/17/2002

Qualifiers:

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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc. **Date:** *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB5-10.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 1:05:00 PM
Lab ID:	02010498-17A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	92.6	70-130		%REC	1	1/17/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB5-15.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 1:15:00 PM
Lab ID:	02010498-18A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	91.0	70-130		%REC	1	1/17/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Date: *30-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	SB5-20.0
Lab Order:	02010498	**Tag Number:**	
Project:	Webster/EI-00002045.00	**Collection Date:**	1/14/2002 1:25:00 PM
Lab ID:	02010498-19A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/17/2002
Oil Hydrocarbons: C22-C32	< 100	100		mg/Kg	1	1/17/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/17/2002
Surr: O-Terphenyl	93.6	70-130		%REC	1	1/17/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT: URS Corporation
Project: Webster/EI-00002045.00
Lab Order: 02010498

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
02010498-01A	SB2-5.0		1/14/2002 8:50:00 AM	1/15/2002
02010498-02A	SB2-10.0		1/14/2002 9:00:00 AM	1/15/2002
02010498-03A	SB2-15.0		1/14/2002 9:10:00 AM	1/15/2002
02010498-04A	SB2-20.0		1/14/2002 9:20:00 AM	1/15/2002
02010498-05A	SB2-25.0		1/14/2002 9:35:00 AM	1/15/2002
02010498-06A	SB3-5.0		1/14/2002 10:20:00 AM	1/15/2002
02010498-07A	SB3-10.0		1/14/2002 10:30:00 AM	1/15/2002
02010498-08A	SB3-15.0		1/14/2002 10:42:00 AM	1/15/2002
02010498-09A	SB3-20.0		1/14/2002 10:55:00 AM	1/15/2002
02010498-10A	SB3-25.0		1/14/2002 11:07:00 AM	1/15/2002
02010498-11A	SB4-5.0		1/14/2002 11:45:00 AM	1/15/2002
02010498-12A	SB4-10.0		1/14/2002 11:55:00 AM	1/15/2002
02010498-13A	SB4-15.0		1/14/2002 12:05:00 PM	1/15/2002
02010498-14A	SB4-20.0		1/14/2002 12:15:00 PM	1/15/2002
02010498-15A	SB4-25.0		1/14/2002 12:23:00 PM	1/15/2002
02010498-16A	SB5-5.0		1/14/2002 1:00:00 PM	1/15/2002
02010498-17A	SB5-10.0		1/14/2002 1:05:00 PM	1/15/2002
02010498-18A	SB5-15.0		1/14/2002 1:15:00 PM	1/15/2002
02010498-19A	SB5-20.0		1/14/2002 1:25:00 PM	1/15/2002

Precision Analytical Laboratories, Inc.

30-Jan-02

Lab Order: 02010498
Client: URS Corporation
Project: Webster/EI-00002045.00

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
02010498-01A	SB2-5.0	1/14/2002 8:50:00 AM	Soil	Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-02A	SB2-10.0	1/14/2002 9:00:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-03A	SB2-15.0	1/14/2002 9:10:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
				Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-04A	SB2-20.0	1/14/2002 9:20:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
				Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
				POLYNUCLEAR AROMATIC HYDROCARBONS		1/24/2002	1/28/2002
				VOLATILES by GC/MS		1/15/2002	1/23/2002
02010498-05A	SB2-25.0	1/14/2002 9:35:00 AM		VOLATILES by GC/MS		1/15/2002	1/23/2002
02010498-06A	SB3-5.0	1/14/2002 10:20:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-07A	SB3-10.0	1/14/2002 10:30:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-08A	SB3-15.0	1/14/2002 10:42:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-09A	SB3-20.0	1/14/2002 10:55:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
				POLYNUCLEAR AROMATIC HYDROCARBONS		1/24/2002	1/28/2002
				VOLATILES by GC/MS		1/15/2002	1/23/2002
02010498-10A	SB3-25.0	1/14/2002 11:07:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
				POLYNUCLEAR AROMATIC HYDROCARBONS		1/24/2002	1/28/2002
				VOLATILES by GC/MS		1/15/2002	1/23/2002
02010498-11A	SB4-5.0	1/14/2002 11:45:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-12A	SB4-10.0	1/14/2002 11:55:00 AM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-13A	SB4-15.0	1/14/2002 12:05:00 PM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
				POLYNUCLEAR AROMATIC HYDROCARBONS		1/24/2002	1/28/2002
				VOLATILES by GC/MS		1/15/2002	1/23/2002
				VOLATILES by GC/MS		1/15/2002	1/24/2002
02010498-14A	SB4-20.0	1/14/2002 12:15:00 PM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
				POLYNUCLEAR AROMATIC HYDROCARBONS		1/24/2002	1/29/2002

Lab Order: 02010498
Client: URS Corporation
Project: Webster/EI-00002045.00

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
02010498-14A	SB4-20.0	1/14/2002 12:15:00 PM	Soil	VOLATILES by GC/MS		1/15/2002	1/23/2002
02010498-15A	SB4-25.0	1/14/2002 12:23:00 PM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-16A	SB5-5.0	1/14/2002 1:00:00 PM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-17A	SB5-10.0	1/14/2002 1:05:00 PM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-18A	SB5-15.0	1/14/2002 1:15:00 PM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002
02010498-19A	SB5-20.0	1/14/2002 1:25:00 PM		Fuel Hydrocarbons, 8015AZR1		1/16/2002	1/17/2002

Precision Analytical Laboratories, Inc.

Date: *30-Jan-02*

CLIENT: URS Corporation
Work Order: 02010498
Project: Webster/EI-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015AZ_S

Sample ID **MB-6918** SampType: **MBLK** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **1/16/2002** Run ID: **GC5_020117A**
Client ID: **ZZZZZ** Batch ID: **6918** TestNo: **8015AZR1** Analysis Date: **1/17/2002** SeqNo: **199157**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	< 30.0	30.0									
Oil Hydrocarbons: C22-C32	< 100	100									
Fuel Hydrocarbons, C10-C32	< 130	130									
Surr: O-Terphenyl	47.75	0	50	0	95.5	70	130	0	0		

Sample ID **LCS-6918** SampType: **LCS** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **1/16/2002** Run ID: **GC5_020117A**
Client ID: **ZZZZZ** Batch ID: **6918** TestNo: **8015AZR1** Analysis Date: **1/17/2002** SeqNo: **199156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	180.4	30.0	200	0	90.2	70	130	0	0		
Surr: O-Terphenyl	46.43	0	50	0	92.9	70	130	0	0		

Sample ID **02010498-08A MS** SampType: **MS** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **1/16/2002** Run ID: **GC5_020117A**
Client ID: **SB3-15.0** Batch ID: **6918** TestNo: **8015AZR1** Analysis Date: **1/17/2002** SeqNo: **199143**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	216.1	30.0	200	0	108	70	130	0	0		
Surr: O-Terphenyl	48.02	0	50	0	96	70	130	0	0		

Sample ID **02010498-08A MSD** SampType: **MSD** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **1/16/2002** Run ID: **GC5_020117A**
Client ID: **SB3-15.0** Batch ID: **6918** TestNo: **8015AZR1** Analysis Date: **1/17/2002** SeqNo: **199144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	218.5	30.0	200	0	109	70	130	216.1	1.09	35	
Surr: O-Terphenyl	47.86	0	50	0	95.7	70	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 02010498
Project: Webster/EI-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	MB-6896	SampType:	MBLK	TestCode:	8260_S	Units:	mg/Kg	Prep Date:	1/14/2002	Run ID:	MS1_020117B
Client ID:	ZZZZZ	Batch ID:	6896	TestNo:	SW8260B			Analysis Date:	1/17/2002	SeqNo:	199211

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.050	0.050									
1,1,2,2-Tetrachloroethane	< 0.050	0.050									
1,1,2-Trichloroethane	< 0.050	0.050									
1,1-Dichloroethane	< 0.050	0.050									
1,1-Dichloroethene	< 0.050	0.050									
1,1-Dichloropropene	< 0.050	0.050									
1,2,3-Trichlorobenzene	< 0.10	0.10									
1,2,3-Trichloropropane	< 0.050	0.050									
1,2,4-Trimethylbenzene	< 0.050	0.050									
1,2-Dibromoethane	< 0.050	0.050									
1,2-Dichlorobenzene	< 0.050	0.050									
1,2-Dichloroethane	< 0.050	0.050									
1,2-Dichloropropane	< 0.050	0.050									
1,3,5-Trimethylbenzene	< 0.050	0.050									
1,3-Dichlorobenzene	< 0.050	0.050									
1,3-Dichloropropane	< 0.050	0.050									
1,4-Dichlorobenzene	< 0.050	0.050									
2,2-Dichloropropane	< 0.050	0.050									
2-Butanone (MEK)	< 0.25	0.25									
2-Chloroethyl vinyl ether	< 0.25	0.25									
2-Chlorotoluene	< 0.050	0.050									
2-Hexanone	< 0.25	0.25									
4-Chlorotoluene	< 0.050	0.050									
4-Isopropyltoluene	< 0.050	0.050									
4-Methyl-2-pentanone	< 0.25	0.25									
Acetone	< 0.50	0.50									
Benzene	< 0.050	0.050									
Bromobenzene	< 0.050	0.050									
Bromochloromethane	< 0.050	0.050									
Bromodichloromethane	< 0.050	0.050									
Bromoform	< 0.050	0.050									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 02010498
Project: Webster/EI-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	MB-6896	SampType:	MBLK	TestCode:	8260_S	Units:	mg/Kg	Prep Date:	1/14/2002	Run ID:	MS1_020117B
Client ID:	ZZZZZ	Batch ID:	6896	TestNo:	SW8260B			Analysis Date:	1/17/2002	SeqNo:	199211

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	< 0.10	0.10									
Carbon tetrachloride	< 0.050	0.050									
Chlorobenzene	< 0.050	0.050									
Chloroethane	< 0.050	0.050									
Chloroform	< 0.050	0.050									
Chloromethane	< 0.25	0.25									
cis-1,2-Dichloroethene	< 0.050	0.050									
cis-1,3-Dichloropropene	< 0.050	0.050									
Dibromochloromethane	< 0.050	0.050									
Dichlorodifluoromethane	< 0.050	0.050									
Ethylbenzene	< 0.050	0.050									
m,p-Xylene	< 0.10	0.10									
Methyl tert-butyl ether	< 0.050	0.050									
Methylene chloride	< 0.10	0.10									
n-Butylbenzene	< 0.050	0.050									
n-Propylbenzene	< 0.050	0.050									
o-Xylene	< 0.050	0.050									
sec-Butylbenzene	< 0.050	0.050									
Styrene	< 0.050	0.050									
tert-Butylbenzene	< 0.050	0.050									
Tetrachloroethene	< 0.050	0.050									
Toluene	< 0.050	0.050									
trans-1,2-Dichloroethene	< 0.050	0.050									
trans-1,3-Dichloropropene	< 0.050	0.050									
Trichloroethene	< 0.050	0.050									
Trichlorofluoromethane	< 0.050	0.050									
Vinyl acetate	< 0.050	0.050									
Vinyl chloride	< 0.050	0.050									
Surr: 4-Bromofluorobenzene	2.445	0	2.5	0	97.8	56.4	139	0	0		
Surr: Dibromofluoromethane	2.398	0	2.5	0	95.9	59.7	130	0	0		
Surr: Toluene-d8	2.464	0	2.5	0	98.6	57.8	138	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 02010498
Project: Webster/EI-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID **LCS-6896** SampType: **LCS** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **1/14/2002** Run ID: **MS1_020117B**
Client ID: **ZZZZZ** Batch ID: **6896** TestNo: **SW8260B** Analysis Date: **1/17/2002** SeqNo: **199209**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.128	0.050	1.25	0	90.3	49	135	0	0		
Benzene	1.074	0.050	1.25	0	85.9	59	137	0	0		
Chlorobenzene	1.232	0.050	1.25	0	98.5	61	131	0	0		
Toluene	1.21	0.050	1.25	0	96.8	50	146	0	0		
Trichloroethene	1.216	0.050	1.25	0	97.3	55	134	0	0		
Surr: 4-Bromofluorobenzene	2.356	0	2.5	0	94.2	56.4	139	0	0		
Surr: Dibromofluoromethane	2.36	0	2.5	0	94.4	59.7	130	0	0		
Surr: Toluene-d8	2.38	0	2.5	0	95.2	57.8	138	0	0		

Sample ID **LCSD-6896** SampType: **LCSD** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **1/14/2002** Run ID: **MS1_020117B**
Client ID: **ZZZZZ** Batch ID: **6896** TestNo: **SW8260B** Analysis Date: **1/17/2002** SeqNo: **199210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.12	0.050	1.25	0	89.6	49	135	1.128	0.801	25	
Benzene	1.075	0.050	1.25	0	86	59	137	1.074	0.0931	25	
Chlorobenzene	1.233	0.050	1.25	0	98.6	61	131	1.232	0.122	25	
Toluene	1.226	0.050	1.25	0	98.1	50	146	1.21	1.31	25	
Trichloroethene	1.215	0.050	1.25	0	97.2	55	134	1.216	0.0823	25	
Surr: 4-Bromofluorobenzene	2.292	0	2.5	0	91.7	56.4	139	0	0	0	
Surr: Dibromofluoromethane	2.341	0	2.5	0	93.6	59.7	130	0	0	0	
Surr: Toluene-d8	2.458	0	2.5	0	98.3	57.8	138	0	0	0	

Sample ID **02010470-03A MS** SampType: **MS** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **1/14/2002** Run ID: **MS1_020117B**
Client ID: **ZZZZZ** Batch ID: **6896** TestNo: **SW8260B** Analysis Date: **1/17/2002** SeqNo: **199206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.08	0.050	1.25	0	86.4	49	135	0	0		
Benzene	1.064	0.050	1.25	0	85.2	59	137	0	0		
Chlorobenzene	1.222	0.050	1.25	0	97.8	61	131	0	0		
Toluene	1.223	0.050	1.25	0	97.8	50	146	0	0		
Trichloroethene	1.227	0.050	1.25	0	98.2	55	134	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 02010498
Project: Webster/EI-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID **02010470-03A MS** SampType: **MS** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **1/14/2002** Run ID: **MS1_020117B**
Client ID: **ZZZZZ** Batch ID: **6896** TestNo: **SW8260B** Analysis Date: **1/17/2002** SeqNo: **199206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2.332	0	2.5	0	93.3	56.4	139	0	0		
Surr: Dibromofluoromethane	2.337	0	2.5	0	93.5	59.7	130	0	0		
Surr: Toluene-d8	2.414	0	2.5	0	96.6	57.8	138	0	0		

Sample ID **02010470-03A MSD** SampType: **MSD** TestCode: **8260_S** Units: **mg/Kg** Prep Date: **1/14/2002** Run ID: **MS1_020117B**
Client ID: **ZZZZZ** Batch ID: **6896** TestNo: **SW8260B** Analysis Date: **1/17/2002** SeqNo: **199207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.034	0.050	1.25	0	82.7	49	135	1.08	4.40	25	
Benzene	1.079	0.050	1.25	0	86.3	59	137	1.064	1.35	25	
Chlorobenzene	1.216	0.050	1.25	0	97.3	61	131	1.222	0.492	25	
Toluene	1.201	0.050	1.25	0	96.1	50	146	1.223	1.82	25	
Trichloroethene	1.198	0.050	1.25	0	95.9	55	134	1.227	2.35	25	
Surr: 4-Bromofluorobenzene	2.377	0	2.5	0	95.1	56.4	139	0	0	0	
Surr: Dibromofluoromethane	2.431	0	2.5	0	97.2	59.7	130	0	0	0	
Surr: Toluene-d8	2.432	0	2.5	0	97.3	57.8	138	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 02010498
Project: Webster/EI-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_S

Sample ID **MB-7009** SampType: **MBLK** TestCode: **8310_S** Units: **mg/Kg** Prep Date: **1/24/2002** Run ID: **HPLC1_020128A**
Client ID: **ZZZZZ** Batch ID: **7009** TestNo: **SW8310** Analysis Date: **1/28/2002** SeqNo: **203165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	< 0.20	0.20									
Acenaphthylene	< 0.30	0.30									
Acenaphthene	< 0.20	0.20									
Fluorene	< 0.030	0.030									
Phenanthrene	< 0.030	0.030									
Anthracene	< 0.020	0.020									
Fluoranthene	< 0.030	0.030									
Pyrene	< 0.020	0.020									
Benz(a)anthracene	< 0.010	0.010									
Chrysene	< 0.020	0.020									
Benzo(b)fluoranthene	< 0.020	0.020									
Benzo(k)fluoranthene	< 0.010	0.010									
Benzo(a)pyrene	< 0.010	0.010									
Dibenz(a,h)anthracene	< 0.010	0.010									
Benzo(g,h,i)perylene	< 0.030	0.030									
Indeno(1,2,3-cd)pyrene	< 0.010	0.010									
Surr: 2-Chloroanthracene	0.43	0	0.4167	0	103	13	155	0	0		

Sample ID **LCS-7009** SampType: **LCS** TestCode: **8310_S** Units: **mg/Kg** Prep Date: **1/24/2002** Run ID: **HPLC1_020128A**
Client ID: **ZZZZZ** Batch ID: **7009** TestNo: **SW8310** Analysis Date: **1/28/2002** SeqNo: **203163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	1.445	0.30	1.67	0	86.5	20	110	0	0		
Phenanthrene	0.07567	0.030	0.0833	0	90.8	13	138	0	0		
Pyrene	0.076	0.020	0.0833	0	91.2	25	130	0	0		
Benzo(k)fluoranthene	0.08133	0.010	0.0833	0	97.6	54	140	0	0		
Dibenz(a,h)anthracene	0.1508	0.010	0.167	0	90.3	55	125	0	0		
Surr: 2-Chloroanthracene	0.4145	0	0.4167	0	99.5	13	155	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 02010498
Project: Webster/EI-00002045.00

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_S

Sample ID **LCSD-7009** SampType: **LCSD** TestCode: **8310_s** Units: **mg/Kg** Prep Date: **1/24/2002** Run ID: **HPLC1_020128A**
Client ID: **ZZZZZ** Batch ID: **7009** TestNo: **SW8310** Analysis Date: **1/28/2002** SeqNo: **203164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	1.554	0.30	1.67	0	93.1	20	110	1.445	7.27	35	
Phenanthrene	0.081	0.030	0.0833	0	97.2	13	138	0.07567	6.81	35	
Pyrene	0.081	0.020	0.0833	0	97.2	25	130	0.076	6.37	35	
Benzo(k)fluoranthene	0.0885	0.010	0.0833	0	106	54	140	0.08133	8.44	35	
Dibenz(a,h)anthracene	0.162	0.010	0.167	0	97	55	125	0.1508	7.14	35	
Surr: 2-Chloroanthracene	0.42	0	0.4167	0	101	13	155	0	0	0	

Sample ID **02010498-13A MS** SampType: **MS** TestCode: **8310_S** Units: **mg/Kg** Prep Date: **1/24/2002** Run ID: **HPLC1_020128A**
Client ID: **SB4-15.0** Batch ID: **7009** TestNo: **SW8310** Analysis Date: **1/28/2002** SeqNo: **203152**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	1.046	0.30	1.67	0	62.6	20	110	0	0		
Phenanthrene	0.05217	0.030	0.0833	0	62.6	13	138	0	0		
Pyrene	0.04367	0.020	0.0833	0	52.4	25	130	0	0		
Benzo(k)fluoranthene	0.06333	0.010	0.0833	0	76	54	140	0	0		
Dibenz(a,h)anthracene	0.127	0.010	0.167	0	76	55	125	0	0		
Surr: 2-Chloroanthracene	0.3295	0	0.4167	0	79.1	13	155	0	0		

Sample ID **02010498-13A MSD** SampType: **MSD** TestCode: **8310_S** Units: **mg/Kg** Prep Date: **1/24/2002** Run ID: **HPLC1_020128A**
Client ID: **SB4-15.0** Batch ID: **7009** TestNo: **SW8310** Analysis Date: **1/28/2002** SeqNo: **203153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	0.9047	0.30	1.67	0	54.2	20	110	1.046	14.5	35	
Phenanthrene	0.04433	0.030	0.0833	0	53.2	13	138	0.05217	16.2	35	
Pyrene	0.0365	0.020	0.0833	0	43.8	25	130	0.04367	17.9	35	
Benzo(k)fluoranthene	0.05167	0.010	0.0833	0	62	54	140	0.06333	20.3	35	
Dibenz(a,h)anthracene	0.1067	0.010	0.167	0	63.9	55	125	0.127	17.4	35	
Surr: 2-Chloroanthracene	0.2683	0	0.4167	0	64.4	13	155	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Precision Analytical Laboratories, Inc.

[X] Main Lab- 1725 West 17th Street, Tempe, AZ 85281 (480) 967-1310 FAX (480) 967-1019
[ ] North Phoenix- 2020 West Lone Cactus Drive, Phoenix, AZ 85027 (623) 780-4800 FAX (623) 780-7695
[ ] Tucson- 4455 South Park Avenue, Ste.110, Tucson, AZ 85714 (520) 807-3801 FAX (520) 807-3803
www.palabs.com or call toll-free 1-866-7PALABS (1-866-772-5227)

LAB ID NUMBER: 0-201-0498

Client:	URS
Address:	7720 N. 16th Street
City, State, Zip:	Suite 100 Phx, AZ 85020
Contact:	David Palmer
Phone:	(602) 371-1660
Fax:	(602) 371-1615
Sampler:	David Palmer
P.O. Number:	E1-00002045.00

E-Mail Address:
Fax Results: (Y) N
E-Mail Results: Y (N)

TAT Request

24 Hours 48 Hours
72 Hours 5 Day
Laboratory Approval Required for RUSH Analyses
Surcharges May Apply
Standard 10 Day

Sample Information

Lab #	Sample Type	Sample Identification	Date	Time	Qty	TPH 8015 AZ-1	VOC, EXTRACT AND HOLD ONLY
01	Soil	SB2-5.0	1/14/02	0950	1	X	
02	Soil	SB2-10.0	1/14/02	0900	2	X	X
03	Soil	SB2-15.0	1/14/02	0910	2	X	X
04	Soil	SB2-20.0	1/14/02	0920	2	X	X
05	Soil	SB2-25.0	1/14/02	0935	1		X
06	Soil	SB3-5.0	1/14/02	1020	2	X	X
07	Soil	SB3-10.0	1/14/02	1030	2	X	X
08	Soil	SB3-15.0	1/14/02	1042	2	X	X
09	Soil	SB3-20.0	1/14/02	1055	2	X	X
10	Soil	SB3-25.0	1/14/02	1107	2	X	X
11	Soil	SB4-5.0	1/14/02	1145	2	X	X
12	Soil	SB4-10.0	1/14/02	1155	2	X	X

Project Name: Webster

Project Number: E1-00002045.00

Instructions/Special Requirements:
ENCORE SAMPLES: EXTRACT FOR VOCS AND HOLD

Date	Time	Relinquished By:	Company	Received By:	Company
1/15/02	0715	David P. Palmer	URS	[illegible]	

Precision Analytical Laboratories, Inc.

[X] Main Lab- 1725 West 17th Street, Tempe, AZ 85281 (480) 967-1310 FAX (480) 967-1019
[ ] North Phoenix- 2020 West Lone Cactus Drive, Phoenix, AZ 85027 (623) 780-4800 FAX (623) 780-7695
[ ] Tucson- 4455 South Park Avenue, Ste.110, Tucson, AZ 85714 (520) 807-3801 FAX (520) 807-3803
www.palabs.com or call toll-free 1-866-7PALABS (1-866-772-5227)

LAB ID NUMBER: 6-201-0498

Client:	URS	E-Mail Address:	
Address:	7720 N. 16th St. Suite 100	Fax Results:	(Y) N
City, State, Zip:	Phoenix AZ 85020	E-Mail Results:	Y N
Contact:	David Palmer	**TAT Request**	
Phone:	(602) 861-7460	24 Hours / 48 Hours	
Fax:	(602) 371-1615	72 Hours / 5 Day	
Sampler:	David Palmer	Laboratory Approval Required for RUSH Analyses Surcharges May Apply	
P.O. Number:		(Standard 10 Day)	

Sample Information

Lab #	Sample Type	Sample Identification	Date	Time	Qty	TPH 8015 AZRI	EXTRACT AND HOLD ONLY VOCs EPA 8260B
13	Soil	SB4 - 15.0	1/14/02	1205	2	X	X
14	Soil	SB4 - 20.0	1/14/02	1215	2	X	X
15	Soil	SB4 - 25.0	1/14/02	1223	2	X	X
16	Soil	SB5 - 5.0	1/14/02	1300	2	X	X
17	Soil	SB5 - 10.0	1/14/02	1305	2	X	X
18	Soil	SB5 - 15.0	1/14/02	1315	2	X	X
19	Soil	SB5 - 20.0	1/14/02	1325	2	X	X

David Palmer

Project Name: Webster

Project Number: E1-0000 2045.00

Instructions/Special Requirements:
ENCORE SAMPLES: EXTRACT FOR VOCs AND HOLD

Date	Time	Relinquished By:	Company	Received By:	Company
1/15/02	0715	David P. Palmer David P Palmer	URS	[illegible]	

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

January 23, 2002

David Palmer
URS Corporation
7720 N. 16th Street, Suite 100
Phoenix, AZ 85020

TEL (602) 861-7460
FAX (602) 371-1615

RE: Webster/EI-19445010.57

Order No.: 02010551

Dear David Palmer:

Precision Analytical Laboratories, Inc. received 24 samples on 1/16/2002 for the analyses presented in the following report.

This report includes the following information:
- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Sandy Lee Nash

FOR Marcia A. Smith
Vice President - Client Services

Precision Analytical Laboratories, Inc. **Date:** *23-Jan-02*

CLIENT: URS Corporation
Project: Webster/EI-19445010.57
Lab Order: 02010551

CASE NARRATIVE

Data Qualifiers:

Listed below are data qualifiers which may be used in your analytical report to explain any analytical or quality control issues. If one or more of the following data qualifiers is associated with your analytical or quality control data it will be noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

B1 Target analyte detected in method blank at or above the method reporting limit.
D1 Sample required dilution due to matrix interference.
D2 Sample required dilution due to high concentration of target analyte.
D3 Sample dilution required due to insufficient sample.
D4 Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed.
E1 Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
E2 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E3 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
E4 Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
E6 Concentration estimated. Internal standard recoveries did not meet method acceptance criteria.
E7 Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
H1 Sample analysis performed past holding time. See case narrative.
H2 Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3 Sample was received and analyzed past holding time.
H4 Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
K1 The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. The reported result is an estimated value.
K2 The sample dilutions set up for the BOD analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/L. The reported result is estimated.
L1 The associated blank spike recovery was above laboratory acceptance limits. See case narrative.
L2 The associated blank spike recovery was below laboratory acceptance limits. See case narrative.

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CLIENT: URS Corporation
Project: Webster/EI-19445010.57
Lab Order: 02010551

CASE NARRATIVE

M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
M2 Matrix spike recovery was low, the method control sample recovery was acceptable.
M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
M4 The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
M5 Analyte concentration was determined by the method of standard addition (MSA).
N1 See case narrative.
Q1 Sample integrity was not maintained. See case narrative.
Q2 Sample received with head space.
Q3 Sample received with improper chemical preservation.
Q5 Sample received without chemical preservation, but preserved by the laboratory.
Q6 Sample was received above recommended temperature.
Q7 Sample inadequately dechlorinated.
Q8 Insufficient sample received to meet method QC requirements. QC requirements satisfy ADEQ policies 0154 and 0155.
Q10 Sample received in inappropriate sample container.
Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.
R2 RPD exceeded the laboratory control limit. See case narrative.
R3 Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
R5 MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.
S2 Surrogate recovery was above laboratory and method acceptance limits.
S4 Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
S6 Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
S7 Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.
S9 The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The method control sample recovery was acceptable.
S10 Surrogate recovery was above laboratory and method acceptance limits. See case narrative (N1).
T2 Cited ADHS licensed method does not contain this analyte as part of method compound list.

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CLIENT: URS Corporation
Project: Webster/EI-19445010.57
Lab Order: 02010551

CASE NARRATIVE

T4 Tentatively identified compound. Concentration is estimated and based on the closest internal standard.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

V2 CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.

V5 CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B.

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136 - Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc (PAL) holds the following certifications:
Arizona (certification no. AZ0610) and California (I-2410).
PAL - Tucson laboratory, Arizona certification number: AZ0609.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents, and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control objectives for the analyses included in this report.

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Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc.

Date: *23-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	COMP SB6
Lab Order:	02010551	**Tag Number:**	
Project:	Webster/EI-19445010.57	**Collection Date:**	1/15/2002 9:05:00 AM
Lab ID:	02010551-25A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/18/2002
Oil Hydrocarbons: C22-C32	< 100	100	V1	mg/Kg	1	1/18/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/18/2002
Surr: O-Terphenyl	104	70-130		%REC	1	1/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *23-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	COMP SB7
Lab Order:	02010551	**Tag Number:**	
Project:	Webster/EI-19445010.57	**Collection Date:**	1/15/2002 10:05:00 AM
Lab ID:	02010551-26A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/18/2002
Oil Hydrocarbons: C22-C32	< 100	100	V1	mg/Kg	1	1/18/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/18/2002
Surr: O-Terphenyl	86.7	70-130		%REC	1	1/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *23-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	COMP SB8
Lab Order:	02010551	**Tag Number:**	
Project:	Webster/EI-19445010.57	**Collection Date:**	1/15/2002 11:28:00 AM
Lab ID:	02010551-27A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/18/2002
Oil Hydrocarbons: C22-C32	< 100	100	V1	mg/Kg	1	1/18/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/18/2002
Surr: O-Terphenyl	106	70-130		%REC	1	1/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *23-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	COMP SB9
Lab Order:	02010551	**Tag Number:**	
Project:	Webster/EI-19445010.57	**Collection Date:**	1/15/2002 12:55:00 PM
Lab ID:	02010551-28A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/18/2002
Oil Hydrocarbons: C22-C32	< 100	100	V1	mg/Kg	1	1/18/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/18/2002
Surr: O-Terphenyl	91.5	70-130		%REC	1	1/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

Date: *23-Jan-02*

CLIENT:	URS Corporation	**Client Sample ID:**	COMP SB10
Lab Order:	02010551	**Tag Number:**	
Project:	Webster/EI-19445010.57	**Collection Date:**	1/15/2002 1:50:00 PM
Lab ID:	02010551-29A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FUEL HYDROCARBONS, 8015AZR1		**8015AZR1**				Analyst: **MH**
Diesel Hydrocarbons: C10-C22	< 30.0	30.0		mg/Kg	1	1/18/2002
Oil Hydrocarbons: C22-C32	< 100	100	V1	mg/Kg	1	1/18/2002
Fuel Hydrocarbons, C10-C32	< 130	130		mg/Kg	1	1/18/2002
Surr: O-Terphenyl	88.2	70-130		%REC	1	1/18/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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Precision Analytical Laboratories, Inc.

23-Jan-02

Lab Order: 02010551
Client: URS Corporation
Project: Webster/EI-19445010.57

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
02010551-25A	COMP SB6	1/15/2002 9:05:00 AM	Soil	Fuel Hydrocarbons, 8015AZR1		1/18/2002	1/18/2002
02010551-26A	COMP SB7	1/15/2002 10:05:00 AM		Fuel Hydrocarbons, 8015AZR1		1/18/2002	1/18/2002
02010551-27A	COMP SB8	1/15/2002 11:28:00 AM		Fuel Hydrocarbons, 8015AZR1		1/18/2002	1/18/2002
02010551-28A	COMP SB9	1/15/2002 12:55:00 PM		Fuel Hydrocarbons, 8015AZR1		1/18/2002	1/18/2002
02010551-29A	COMP SB10	1/15/2002 1:50:00 PM		Fuel Hydrocarbons, 8015AZR1		1/18/2002	1/18/2002

Precision Analytical Laboratories, Inc.

Date: *23-Jan-02*

CLIENT: URS Corporation
Project: Webster/EI-19445010.57
Lab Order: 02010551

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
02010551-01A	SB6-5.0		1/15/2002 8:30:00 AM	1/16/2002
02010551-02A	SB6-10.0		1/15/2002 8:36:00 AM	1/16/2002
02010551-03A	SB6-15.0		1/15/2002 8:46:00 AM	1/16/2002
02010551-04A	SB6-25.0		1/15/2002 9:05:00 AM	1/16/2002
02010551-05A	SB7-5.0		1/15/2002 9:25:00 AM	1/16/2002
02010551-06A	SB7-10.0		1/15/2002 9:39:00 AM	1/16/2002
02010551-07A	SB7-15.0		1/15/2002 9:46:00 AM	1/16/2002
02010551-08A	SB7-20.0		1/15/2002 9:51:00 AM	1/16/2002
02010551-09A	SB7-25.0		1/15/2002 10:05:00 AM	1/16/2002
02010551-10A	SB8-5.0		1/15/2002 10:45:00 AM	1/16/2002
02010551-11A	SB8-10.0		1/15/2002 10:51:00 AM	1/16/2002
02010551-12A	SB8-15.0		1/15/2002 11:00:00 AM	1/16/2002
02010551-13A	SB8-20.0		1/15/2002 11:05:00 AM	1/16/2002
02010551-14A	SB8-1.5		1/15/2002 11:28:00 AM	1/16/2002
02010551-15A	SB9-5.0		1/15/2002 12:25:00 PM	1/16/2002
02010551-16A	SB9-10.0		1/15/2002 12:30:00 PM	1/16/2002
02010551-17A	SB9-15.0		1/15/2002 12:35:00 PM	1/16/2002
02010551-18A	SB9-20.0		1/15/2002 12:42:00 PM	1/16/2002
02010551-19A	SB9-25.0		1/15/2002 12:55:00 PM	1/16/2002
02010551-20A	SB10-5.0		1/15/2002 1:25:00 PM	1/16/2002
02010551-21A	SB10-10.0		1/15/2002 1:32:00 PM	1/16/2002
02010551-22A	SB10-15.0		1/15/2002 1:40:00 PM	1/16/2002
02010551-23A	SB10-20.0		1/15/2002 1:45:00 PM	1/16/2002
02010551-24A	SB10-25.0		1/15/2002 1:50:00 PM	1/16/2002
02010551-25A	COMP SB6		1/15/2002 9:05:00 AM	1/16/2002
02010551-26A	COMP SB7		1/15/2002 10:05:00 AM	1/16/2002
02010551-27A	COMP SB8		1/15/2002 11:28:00 AM	1/16/2002
02010551-28A	COMP SB9		1/15/2002 12:55:00 PM	1/16/2002
02010551-29A	COMP SB10		1/15/2002 1:50:00 PM	1/16/2002

Precision Analytical Laboratories, Inc.

Date: *23-Jan-02*

CLIENT: URS Corporation
Work Order: 02010551
Project: Webster/EI-19445010.57

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015AZ_S

Sample ID **MB-6954** SampType: **MBLK** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **1/18/2002** Run ID: **GC5_020118A**
Client ID: **ZZZZZ** Batch ID: **6954** TestNo: **8015AZR1** Analysis Date: **1/18/2002** SeqNo: **199960**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Hydrocarbons: C6-C10	< 20.0	20.0									
Diesel Hydrocarbons: C10-C22	< 30.0	30.0									
Oil Hydrocarbons: C22-C32	< 100	100									
Fuel Hydrocarbons, C10-C32	< 130	130									
Surr: O-Terphenyl	45.01	0	50	0	90	70	130	0	0		

Sample ID **LCS-6954** SampType: **LCS** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **1/18/2002** Run ID: **GC5_020118A**
Client ID: **ZZZZZ** Batch ID: **6954** TestNo: **8015AZR1** Analysis Date: **1/18/2002** SeqNo: **199958**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	213.3	30.0	200	0	107	70	130	0	0		
Surr: O-Terphenyl	50.65	0	50	0	101	70	130	0	0		

Sample ID **LCSD-6954** SampType: **LCSD** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **1/18/2002** Run ID: **GC5_020118A**
Client ID: **ZZZZZ** Batch ID: **6954** TestNo: **8015AZR1** Analysis Date: **1/18/2002** SeqNo: **199959**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	184.8	30.0	200	0	92.4	70	130	213.3	14.3	35	
Surr: O-Terphenyl	43.65	0	50	0	87.3	70	130	0	0	0	

Sample ID **02010607-02A MS** SampType: **MS** TestCode: **8015AZ_S** Units: **mg/Kg** Prep Date: **1/18/2002** Run ID: **GC5_020118A**
Client ID: **ZZZZZ** Batch ID: **6954** TestNo: **8015AZR1** Analysis Date: **1/18/2002** SeqNo: **199956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	230.5	30.0	200	0	115	70	130	0	0		
Surr: O-Terphenyl	44.53	0	50	0	89.1	70	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: URS Corporation
Work Order: 02010551
Project: Webster/EI-19445010.57

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015AZ_S

Sample ID	**02010607-02A MSD**	SampType:	**MSD**	TestCode:	**8015AZ_S**	Units:	**mg/Kg**	Prep Date:	**1/18/2002**	Run ID:	**GC5_020118A**	
Client ID:	**ZZZZZ**	Batch ID:	**6954**	TestNo:	**8015AZR1**			Analysis Date:	**1/18/2002**	SeqNo:	**199957**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Hydrocarbons: C10-C22	193.4	30.0	200	0	96.7	70	130	230.5	17.5	35	
Surr: O-Terphenyl	44.36	0	50	0	88.7	70	130	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Precision Analytical Laboratories, Inc.

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[ ] Tucson- 4455 South Park Avenue, Ste.110, Tucson, AZ 85714 (520) 807-3801 FAX (520) 807-3803
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LAB ID NUMBER: D-201-0551

Page 1 of 2

Client:	URS
Address:	7720 N. 16th Street Ste. 100
City, State, Zip:	Phoenix AZ 85020
Contact:	David Palmer
Phone:	(602) 861-2460
Fax:	(602) 371-1615
Sampler:	David Palmer
P.O. Number:	E1-

E-Mail Address:	
Fax Results:	(Y) N
E-Mail Results:	Y (N)

TAT Request

24 Hours 48 Hours
72 Hours 5 Day
Laboratory Approval Required for RUSH Analyses
~~Surcharges May Apply~~
Standard 10 Day

Sample Information

Lab #	Sample Type	Sample Identification	Date	Time	Qty	TPH 8015AZ21	VOCs EPA 8260B Extract and Hold	
1	Soil	SB6-5.0	11/15/02	0820	2	X	X	
2	Soil	SB6-10.0	11/15/02	0836	2	X	X	
3	Soil	SB6-15.0	11/15/02	0846	2	X	X	COMPOSITE FOR TPH ANALYSIS
4	Soil	SB6-25.0	11/15/02	0905	2	X	X	ALL SB6 SAMPLES - 5 DAY RUSH
5	Soil	SB7-5.0	11/15/02	0925	2	X	X	
6	Soil	SB7-10.0	11/15/02	0939	2	X	X	COMPOSITE FOR TPH ANALYSIS
7	Soil	SB7-15.0	11/15/02	0946	2	X	X	ALL SB7 SAMPLES - 5 DAY RUSH
8	Soil	SB7-20.0	11/15/02	0951	2	X	X	
9	Soil	SB7-25.0	11/15/02	1005	2	X	X	
10	Soil	SB8-5.0	11/15/02	1045	2	X	X	
11	Soil	SB8-10.0	11/15/02	1051	2	X	X	COMPOSITE FOR ANALYSIS
12	Soil	SB8-15.0	11/15/02	1100	2	X	X	ALL SB8 SAMPLES - 5 DAY RUSH

Project Name: Webster

Project Number: E1-19445010.57

Instructions/Special Requirements:
(1) Composite samples by SB sets, then analyze for TPH; total of 5.
(2) Extract and hold Encore samples for VOCs analysis option.

Date	Time	Relinquished By:	Company	Received By:	Company
11/16/02	1350	David P Palmer	URS	R. Simmons	PAL

Precision Analytical Laboratories, Inc.

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[ ] North Phoenix- 2020 West Lone Cactus Drive, Phoenix, AZ 85027 (623) 780-4800 FAX (623) 780-7695
[ ] Tucson- 4455 South Park Avenue, Ste.110, Tucson, AZ 85714 (520) 807-3801 FAX (520) 807-3803
www.palabs.com or call toll-free 1-866-7PALABS (1-866-772-5227)

LAB ID NUMBER: 0-201-0551

Client:	URS
Address:	7720 N. 16th St. Ste 100
City, State, Zip:	Phoenix, Az 85020
Contact:	David Palmer
Phone:	(602) 861-7460
Fax:	(602) 371-1615
Sampler:	David Palmer
P.O. Number:	FI-

E-Mail Address:
Fax Results: (Y) N
E-Mail Results: Y (N)

TAT Request

24 Hours 48 Hours
72 Hours 5 Day
Laboratory Approval Required for RUSH Analyses
Surcharges May Apply
Standard 10 Day

Sample Information

Lab #	Sample Type	Sample Identification	Date	Time	Qty	TPH 8015 AZ RI	VOCs EXTRACT AND HOLD EPA 8260B	Instructions/Special Requirements
13	Soil	SB8-20.0	1/15/02	1105	2	X	X	
14	Soil	SB8-1.5	1/15/02	1128	2	X	X	
15	Soil	SB9-5.0	1/15/02	1225	2	X	X	TPH COMPOSITE FOR ANALYSIS
16	Soil	SB9-10.0	1/15/02	1220	2	X	X	ALL SB9 SAMPLES - 5 DAY RUSH
17	Soil	SB9-15.0	1/15/02	1235	2	X	X	
18	Soil	SB9-20.0	1/15/02	1242	2	X	X	
19	Soil	SB9-25.0	1/15/02	1255	2	X	X	
20	Soil	SB10-5.0	1/15/02	1325	2	X	X	
21	Soil	SB10-10.0	1/15/02	1332	2	X	X	COMPOSITE FOR TPH ANALYSIS
22	Soil	SB10-15.0	1/15/02	1340	2	X	X	ALL SB10 SAMPLES - 5 DAY RUSH
23	Soil	SB10-20.0	1/15/02	1345	2	X	X	
24	Soil	SB10-25.0	1/15/02	1350	1	X		

Project Name: Webster

Project Number: 81-19445010.57

Instructions/Special Requirements:
① Composite samples by SB sets, then analyze for TPH: total of 5.
② Extract and hold Encore samples for VOCs analysis option.

Date	Time	Relinquished By:	Company	Received By:	Company
1/16/02	1350	David P. Palmer [signature]	URS	R. Simmons	PAL

APPENDIX C

URS DATA VALIDATION MEMORANDUM

Data Verification Memorandum

URS

7720 North 16th Street
Suite 100
Phoenix, Arizona 85020
602 371 1100 Tel
602 371 1615 Fax

Action	Info	File
David P. Palmer, Project Manager		E1-15448010.57

From Marianne Burrus, Project Chemist

Date February 18, 2002

Subject Data Validation of Webster Phase II for FCDMC
PAL Order ID: 01120691, 02010498, and 02010551

This report summarizes the validation of analytical data for 24 soil samples and 5 composite soil samples. The sample identification numbers and sample collection dates are summarized on Table 1. The samples were analyzed for volatile organic compounds (EPA Method 8260B), total petroleum hydrocarbons (ADHS Method 8015AZR1), and polynuclear aromatic hydrocarbons (EPA Method 8310) These analyses were performed by Precision Analytical Laboratories, Inc. (PAL) located in Phoenix, Arizona.

The following comments refer to PAL's performance in meeting the quality assurance and control specifications outlined in the analytical methods and the criteria specified in the EPA document: National Functional Guidelines for Organic Data Review (October 1999). The data were reviewed in accordance with the URS Standard Operating Procedures (SOPs). The qualifiers used to identify data that did not meet the criteria set forth in the previously referenced documents are listed in Table 2.

A list of the data review parameters is given in Sections 2.0, 3.0, and 4.0. A leading check mark (✔) indicates an area of review in which all data were acceptable. A proceeding "✘" signifies areas where issues were raised during the course of the validation review, and should be considered to determine any impact on data quality and usability.

1.0 Executive Summary

No results were qualified. The data are acceptable in all areas of review and are useable for their intended purpose.

2.0 Volatile Organic Compounds

✔ Data Completeness
✔ Holding Times
✔ Blanks
✔ Surrogates
✔ Matrix Spike/Matrix Spike Duplicates (MS/MSD)
✔ Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

2.1 Data Completeness

All analyses were performed as requested on the Chain-of-Custody Records.

2.2 Holding Times

All samples were analyzed within the method specified holding time.

2.3 Blanks

The associated method blanks were reported as non-detect for all analytes of interest.

2.4 Surrogates

The surrogate percent recoveries were within the laboratory established control limits.

2.5 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS/MSD analyses were performed on project sample **SB1-10.0**. The MS/MSD percent recoveries and relative percent difference (RPD) values were within the laboratory established control limits, indicating acceptable precision and accuracy.

2.6 Laboratory Control Samples/Laboratory Control Sample Duplicate (LCS/LCSD)

The LCS/LCSD percent recoveries and RPD values were within the method specified control limits, indicating acceptable analytical accuracy and precision.

3.0 Total Petroleum Hydrocarbons

- ✔ Data Completeness
- ✔ Holding Times
- ✔ Blanks
- ✔ Surrogates
- ✔ Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- ✔ Laboratory Control Samples (LCS)

3.1 Data Completeness

All analyses were performed as requested on the Chain-of-Custody Records.

3.2 Holding Times

All samples were analyzed within the method specified holding time.

3.3 Blanks

The associated method blanks were reported as non-detect for all analytes of interest.

3.4 Surrogates

The surrogate percent recoveries were within the laboratory established control limits.

3.5 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS/MSD analyses were performed on project sample **SB3-15.0**. The MS/MSD percent recoveries and RPD values were within the laboratory established control limits, indicating acceptable precision and accuracy.

3.6 Laboratory Control Samples/Laboratory Control Sample Duplicate (LCS/LCSD)

The LCS/LCSD percent recoveries and RPD values were within the method specified control limits, indicating acceptable analytical accuracy and precision.

4.0 Polynuclear Aromatic Hydrocarbons

- ✔ Data Completeness
- ✔ Holding Times
- ✔ Blanks
- ✔ Surrogates
- ✔ Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- ✔ Laboratory Control Samples (LCS)

4.1 Data Completeness

All analyses were performed as requested on the Chain-of-Custody Records.

4.2 Holding Times

All samples were analyzed within the method specified holding time.

4.3 Blanks

The associated method blanks were reported as non-detect for all analytes of interest.

4.4 Surrogates

The surrogate percent recoveries were within the laboratory established control limits.

4.5 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS/MSD analyses were performed on project samples **SB1-15.0 and SB4-15.0**. The MS/MSD percent recoveries and RPD values were within the laboratory established control limits, indicating acceptable precision and accuracy.

4.6 Laboratory Control Samples (LCS)

The LCS percent recoveries were within the method specified control limits, indicating acceptable analytical accuracy.

Table 1
Sample Identification and Collection Dates

Sample ID	Date Sampled	Laboratory ID	Sample ID	Date Sampled	Laboratory ID
SB1-5.0	12/19/01	01120691-01	**Composite Samples**		
SB1-10.0	12/19/01	01120691-02	COMP SB6	1/15/02	02010551-25
SB1-15.0	12/19/01	01120691-03	COMP SB7	1/15/02	02010551-26
SB1-20.0	12/19/01	01120691-04	COMP SB8	1/15/02	02010551-27
SB1-25.0	12/19/01	01120691-05	COMP SB9	1/15/02	02010551-28
SB2-5.0	1/14/02	02010498-01	COMP SB10	1/15/02	02010551-29
SB2-10.0	1/14/02	02010498-02			
SB2-15.0	1/14/02	02010498-03			
SB2-20.0	1/14/02	02010498-04			
SB2-25.0	1/14/02	02010498-05			
SB3-5.0	1/14/02	02010498-06			
SB3-10.0	1/14/02	02010498-07			
SB3-15.0	1/14/02	02010498-08			
SB3-20.0	1/14/02	02010498-09			
SB3-25.0	1/14/02	02010498-10			
SB4-5.0	1/14/02	02010498-11			
SB4-10.0	1/14/02	02010498-12			
SB4-15.0	1/14/02	02010498-13			
SB4-20.0	1/14/02	02010498-14			
SB4-25.0	1/14/02	02010498-15			
SB5-5.0	1/14/02	02010498-16			
SB5-10.0	1/14/02	02010498-17			
SB5-15.0	1/14/02	02010498-18			
SB5-20.0	1/14/02	02010498-19			

TABLE 2
Data Validation Qualifier Definitions and Interpretation Key Assigned by URS' Data Review Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

DATA QUALIFIER DEFINITIONS REASON CODE DEFINITIONS

a Analytical sequence deficiency or omission.
b Gross compound breakdown (4,4'-DDT/Endrin).
c Calibration failure; poor or unstable response.
d Laboratory duplicate imprecision.
e Laboratory duplicate control sample imprecision.
f Field duplicate imprecision.
g Poor chromatography.
h Holding time violation.
i Internal standard failure.
j Poor mass spectrographic performance.
k Serial dilution imprecision.
l Laboratory control sample recovery failure.
m Matrix spike/matrix spike duplicate recovery failure.
n Interference check sample recovery failure.
o Calibration blank contamination (metals/inorganics only).
p Preparation blank contamination (metals/inorganics only).
q Quantitation outside of linear range.
r Linearity failure in initial calibration.
s Surrogate spike recovery failure (organics only).
t Instrument tuning failure.
u No confirmation column present (GC organics only).
w Retention time (RT) outside of RT window.
x Equipment blank contamination.
y Trip blank contamination.
z Method blank contamination.
Q Other