



**Sequoia
Analytical**

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7 February, 2002

Steven Meeks
Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670

RE: Arco 5387, Hayward, CA
Sequoia Report: S202071

Enclosed are the results of analyses for samples received by the laboratory on 02/06/02 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Client Services Representative

Lito Diaz
Laboratory Director

CA ELAP Certificate #1624



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: Arco 5387, Hayward, CA
Project Number: 5387, Hayward, CA
Project Manager: Steven Meeks

Reported:
02/07/02 15:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
UST-7-14.0	S202071-01	Soil	02/06/02 10:13	02/06/02 15:10
UST-8-14.0	S202071-02	Soil	02/06/02 10:17	02/06/02 15:10
OE-DP-1-12.0	S202071-03	Soil	02/06/02 11:00	02/06/02 15:10
OE-DP-1-12.3	S202071-04	Soil	02/06/02 11:42	02/06/02 15:10

Sequoia Analytical - Sacramento

Ron Chew, Client Services Representative

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



Delta Environmental Consultants (Rancho Cordova)
 3164 Gold Camp Drive Ste. 200
 Rancho Cordova CA, 95670

Project: Arco 5387, Hayward, CA
 Project Number: 5387, Hayward, CA
 Project Manager: Steven Meeks

Reported:
 02/07/02 15:13

Total Purgeable Hydrocarbons and BTEX by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UST-7-14.0 (S202071-01) Soil Sampled: 02/06/02 10:13 Received: 02/06/02 15:10									
Purgeable Hydrocarbons	42	5.0	mg/kg	1	2020059	02/06/02	02/06/02	DHS LUFT	HC-12
Benzene	ND	0.050	"	"	"	"	"	"	"
Toluene	ND	0.050	"	"	"	"	"	"	"
Ethylbenzene	0.18	0.050	"	"	"	"	"	"	"
Xylenes (total)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.3 %	60-140	"	"	"	"	"	"
UST-8-14.0 (S202071-02) Soil Sampled: 02/06/02 10:17 Received: 02/06/02 15:10									
Purgeable Hydrocarbons	110	5.0	mg/kg	1	2020059	02/06/02	02/06/02	DHS LUFT	HC-12
Benzene	ND	0.050	"	"	"	"	"	"	"
Toluene	0.18	0.050	"	"	"	"	"	"	"
Ethylbenzene	0.49	0.050	"	"	"	"	"	"	"
Xylenes (total)	0.073	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.5 %	60-140	"	"	"	"	"	"
OE-DP-1-12.0 (S202071-03) Soil Sampled: 02/06/02 11:00 Received: 02/06/02 15:10									
Purgeable Hydrocarbons	360	50	mg/kg	10	2020059	02/06/02	02/06/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	0.76	0.50	"	"	"	"	"	"	"
Ethylbenzene	2.1	0.50	"	"	"	"	"	"	"
Xylenes (total)	2.5	0.50	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		90.8 %	60-140	"	"	"	"	"	"
OE-DP-1-12.3 (S202071-04) Soil Sampled: 02/06/02 11:42 Received: 02/06/02 15:10									
Purgeable Hydrocarbons	16	5.0	mg/kg	1	2020080	02/07/02	02/07/02	DHS LUFT	
Benzene	0.13	0.050	"	"	"	"	"	"	"
Toluene	0.42	0.050	"	"	"	"	"	"	"
Ethylbenzene	0.15	0.050	"	"	"	"	"	"	"
Xylenes (total)	0.12	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		74.0 %	60-140	"	"	"	"	"	"



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02/07/02 15:13

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
UST-7-14.0 (S202071-01) Soil Sampled: 02/06/02 10:13 Received: 02/06/02 15:10										
Lead	ND	10		mg/kg	4	2020070	02/07/02	02/07/02	EPA 6010B	
UST-8-14.0 (S202071-02) Soil Sampled: 02/06/02 10:17 Received: 02/06/02 15:10										
Lead	ND	10		mg/kg	4	2020070	02/07/02	02/07/02	EPA 6010B	
OE-DP-1-12.0 (S202071-03) Soil Sampled: 02/06/02 11:00 Received: 02/06/02 15:10										
Lead	ND	10		mg/kg	4	2020070	02/07/02	02/07/02	EPA 6010B	
OE-DP-1-12.3 (S202071-04) Soil Sampled: 02/06/02 11:42 Received: 02/06/02 15:10										
Lead	ND	12		mg/kg	5	2020070	02/07/02	02/07/02	EPA 6010B	



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Reported:
 02/07/02 15:13

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UST-7-14.0 (S202071-01) Soil Sampled: 02/06/02 10:13 Received: 02/06/02 15:10									
Tert-butyl alcohol	ND	2.0	mg/kg	2	2020053	02/06/02	02/06/02	EPA 8260B	
Methyl tert-butyl ether	1.5	0.20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.20	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.20	"	"	"	"	"	"	
Ethanol	ND	20	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		93.6 %	60-140		"	"	"	"	
UST-8-14.0 (S202071-02) Soil Sampled: 02/06/02 10:17 Received: 02/06/02 15:10									
Tert-butyl alcohol	ND	1.0	mg/kg	1	2020053	02/06/02	02/06/02	EPA 8260B	
Methyl tert-butyl ether	2.0	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.10	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		90.0 %	60-140		"	"	"	"	
OE-DP-1-12.0 (S202071-03) Soil Sampled: 02/06/02 11:00 Received: 02/06/02 15:10									
Tert-butyl alcohol	ND	5.0	mg/kg	5	2020053	02/06/02	02/06/02	EPA 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	0.85	0.50	"	"	"	"	"	"	
Ethanol	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		89.2 %	60-140		"	"	"	"	

R-05



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Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
OE-DP-1-12.3 (S202071-04) Soil Sampled: 02/06/02 11:42 Received: 02/06/02 15:10									
Tert-butyl alcohol	ND	2.0	mg/kg	2	2020053	02/06/02	02/06/02	EPA 8260B	
Methyl tert-butyl ether	0.59	0.20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.20	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Ethanol	ND	20	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		85.6 %		60-140	"	"	"	"	



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Reported:
02/07/02 15:13

**Total Purgeable Hydrocarbons and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2020059 - EPA 5030B (MeOH)

Blank (2020059-BLK1)										
Prepared & Analyzed: 02/06/02										
Purgeable Hydrocarbons	ND	5.0	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.050	"							

Surrogate: a,a,a-Trifluorotoluene 0.911 " 1.00 91.1 60-140

LCS (2020059-BS1)

Prepared & Analyzed: 02/06/02										
Benzene	0.866	0.050	mg/kg	1.00		86.6	70-130			
Toluene	1.08	0.050	"	1.00		108	70-130			
Ethylbenzene	1.17	0.050	"	1.00		117	70-130			
Xylenes (total)	3.44	0.050	"	3.00		115	70-130			

Surrogate: a,a,a-Trifluorotoluene 1.03 " 1.00 103 60-140

LCS Dup (2020059-BSD1)

Prepared: 02/06/02 Analyzed: 02/07/02										
Benzene	0.818	0.050	mg/kg	1.00		81.8	70-130	5.70	25	
Toluene	1.04	0.050	"	1.00		104	70-130	3.77	25	
Ethylbenzene	1.15	0.050	"	1.00		115	70-130	1.72	25	
Xylenes (total)	3.50	0.050	"	3.00		117	70-130	1.73	25	

Surrogate: a,a,a-Trifluorotoluene 0.978 " 1.00 97.8 60-140

Batch 2020080 - EPA 5030B (MeOH)

Blank (2020080-BLK1)										
Prepared & Analyzed: 02/07/02										
Purgeable Hydrocarbons	ND	5.0	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.050	"							

Surrogate: a,a,a-Trifluorotoluene 0.956 " 1.00 95.6 60-140



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Reported:
02/07/02 15:13

**Total Purgeable Hydrocarbons and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2020080 - EPA 5030B (MeOH)

LCS (2020080-BS1)

Prepared & Analyzed: 02/07/02

Benzene	0.859	0.050	mg/kg	1.00		85.9	70-130			
Toluene	1.06	0.050	"	1.00		106	70-130			
Ethylbenzene	1.17	0.050	"	1.00		117	70-130			
Xylenes (total)	3.45	0.050	"	3.00		115	70-130			
Surrogate: <i>a,a,a-Trifluorotoluene</i>	0.996		"	1.00		99.6	60-140			



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Reported:
02/07/02 15:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020070 - EPA 3050B										
Blank (2020070-BLK1)										
Prepared & Analyzed: 02/07/02										
Lead	ND	2.5	mg/kg							
LCS (2020070-BS1)										
Prepared & Analyzed: 02/07/02										
Lead	49.6	2.5	mg/kg	50.0		99.2	80-120			
Matrix Spike (2020070-MS1)										
Source: S202071-04										
Prepared & Analyzed: 02/07/02										
Lead	53.1	12	mg/kg	50.0	ND	90.8	80-120			
Matrix Spike Dup (2020070-MSD1)										
Source: S202071-04										
Prepared & Analyzed: 02/07/02										
Lead	52.2	12	mg/kg	50.0	ND	89.0	80-120	1.71	20	



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Reported:
02/07/02 15:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2020053 - EPA 5030B [MeOH]									
Blank (2020053-BLK1)					Prepared & Analyzed: 02/06/02				
Tert-butyl alcohol	ND	1.0	mg/kg						
Methyl tert-butyl ether	ND	0.10	"						
Di-isopropyl ether	ND	0.10	"						
Ethyl tert-butyl ether	ND	0.10	"						
Tert-amyl methyl ether	ND	0.10	"						
Ethanol	ND	10	"						
Surrogate: 1,2-DCA-d4	2.52		"	2.50		101	60-140		
LCS (2020053-BS1)					Prepared & Analyzed: 02/06/02				
Methyl tert-butyl ether	2.41	0.10	mg/kg	2.50		96.4	60-140		
Surrogate: 1,2-DCA-d4	2.73		"	2.50		109	60-140		
LCS Dup (2020053-BSD1)					Prepared & Analyzed: 02/06/02				
Methyl tert-butyl ether	2.56	0.10	mg/kg	2.50		102	60-140	6.04	25
Surrogate: 1,2-DCA-d4	2.86		"	2.50		114	60-140		



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Notes and Definitions

HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Delta Environmental Consultants (Rancho Cordova)
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Reported:
02/07/02 15:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-9,-10,-11,-12 (Composite)	S202072-01	Soil	02/06/02 12:49	02/06/02 15:10

Sequoia Analytical - Sacramento

Ron Chew, Client Services Representative

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Reported:
02/07/02 15:18

Total Purgeable Hydrocarbons and BTEX by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-9,-10,-11,-12 (Composite) (S202072-01) Soil Sampled: 02/06/02 12:49 Received: 02/06/02 15:10									
Purgeable Hydrocarbons	250	20	mg/kg	4	2020059	02/06/02	02/06/02	DHS LUFT	
Benzene	0.23	0.20	"	"	"	"	"	"	
Toluene	2.9	0.20	"	"	"	"	"	"	
Ethylbenzene	3.2	0.20	"	"	"	"	"	"	
Xylenes (total)	14	0.20	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>97.2 %</i>	<i>60-140</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	



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02/07/02 15:18

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SP-9,-10,-11,-12 (Composite) (S202072-01) Soil Sampled: 02/06/02 12:49 Received: 02/06/02 15:10									
Lead	ND	10	mg/kg	4	2020070	02/07/02	02/07/02	EPA 6010B	



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**Total Purgeable Hydrocarbons and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020059 - EPA 5030B (MeOH)										
Blank (2020059-BLK1)										
Prepared & Analyzed: 02/06/02										
Purgeable Hydrocarbons	ND	5.0	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.050	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.911		"	1.00		91.1	60-140			
LCS (2020059-BS1)										
Prepared & Analyzed: 02/06/02										
Benzene	0.866	0.050	mg/kg	1.00		86.6	70-130			
Toluene	1.08	0.050	"	1.00		108	70-130			
Ethylbenzene	1.17	0.050	"	1.00		117	70-130			
Xylenes (total)	3.44	0.050	"	3.00		115	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.03		"	1.00		103	60-140			
LCS Dup (2020059-BSD1)										
Prepared: 02/06/02 Analyzed: 02/07/02										
Benzene	0.818	0.050	mg/kg	1.00		81.8	70-130	5.70	25	
Toluene	1.04	0.050	"	1.00		104	70-130	3.77	25	
Ethylbenzene	1.15	0.050	"	1.00		115	70-130	1.72	25	
Xylenes (total)	3.50	0.050	"	3.00		117	70-130	1.73	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.978		"	1.00		97.8	60-140			



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02/07/02 15:18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2020070 - EPA 3050B									
Blank (2020070-BLK1)					Prepared & Analyzed: 02/07/02				
Lead	ND	2.5	mg/kg						
LCS (2020070-BS1)					Prepared & Analyzed: 02/07/02				
Lead	49.6	2.5	mg/kg	50.0		99.2 80-120			
Matrix Spike (2020070-MS1)					Source: S202071-04 Prepared & Analyzed: 02/07/02				
Lead	53.1	12	mg/kg	50.0	ND	90.8 80-120			
Matrix Spike Dup (2020070-MSD1)					Source: S202071-04 Prepared & Analyzed: 02/07/02				
Lead	52.2	12	mg/kg	50.0	ND	89.0 80-120	1.71	20	



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Reported:
02/07/02 15:18

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

ARCO Facility no. **5387** City (Facility) **Hayward, California** Project manager (Consultant) **Steve Meeks**
 ARCO engineer **Paul Supple** Telephone no. (ARCO) Telephone no. (Consultant) **416-536-2613** Fax no. (Consultant) **416-638-8385**
 Consultant name **Delta Environmental Consultants, Inc.** Address (Consultant) **3164 Gold Camp Drive suite 200, Rancho Cordova**

Laboratory name
 Contract number
 Method of shipment

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA 1601/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 418.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM508E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals <input type="checkbox"/> VOAC <input type="checkbox"/> VOAC <input type="checkbox"/>	CAN METALS EPA 813/7000 71LC <input type="checkbox"/> 81LC <input type="checkbox"/>	Lead Org/DHS Lead EPA 7430/7421 <input type="checkbox"/>	Total Lead		
			Soil	Water	Other	Ice	Acid																
SP-9			X			X		2/6/02	1249		X												X
SP-10			X			X		2/6/02	1249		X												X
SP-11			X			X		2/6/02	1249		X												X
SP-12			X			X		2/6/02	1249		X												X

Handwritten note: 8202072-01

Special detection
 Limit/reporting
**Composite
 4i**

Special QA/QC

Remarks

Lab number

Turnaround time

Priority Rush 1 Business Day

Rush 2 Business Days

Expedited 5 Business Days

Standard 10 Business Days

Condition of sample: Temperature received: **13°C**

Relinquished by sampler **Brett Bardaley** Date **2/6/02** Time **1510** Received by **Monica Gregson** Date **2/6/02** Time **1512**

Relinquished by _____ Date _____ Time _____ Received by _____ Date _____ Time _____

Relinquished by _____ Date _____ Time _____ Received by _____ Date _____ Time _____

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ARCO Facility no. **5397** City (Facility) **Hayward, California** Project manager (Consultant) **Steve Meeks** Laboratory name _____
 ARCO engineer **Paul Supple** Telephone no. (ARCO) _____ Telephone no. (Consultant) **416-536-2613** Fax no. (Consultant) **916-638-8395** Contract number _____

Consultant name **DATA Environmental Consultants, Inc.** Address (Consultant) **3164 Gold Camp Drive suite 200, Rancho Cordova** Method of shipment _____

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802/EPA 8020	BTEX/TPH EPA Method 8020/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E Filter Oxygens EPA Method by 3260	EPA 824/8240	EPA 625/6270	TCLP Metals VOC <input type="checkbox"/> VOC <input type="checkbox"/>	CAN METALS EPA 811/8100 TLC <input type="checkbox"/> 5TLC <input type="checkbox"/>	Lead Org/DHS Lead EPA 7420/7421 <input type="checkbox"/>	Total Lead	MTBE by 3260	Special detection Limit/reporting		
			Soil	Water	Other	Ice	Acid																	
AST-7-14.0			X			X		2/6/02	1013		X											X	X	
AST-9-14.0			X			X		2/6/02	1017		X											X	X	
OE-DT-1-12.0			X			X		2/6/02	1100		X											X	X	
OE-OR-1-12.3			X			X		2/6/02	1142		X											X	X	

Special QA/QC

Remarks

Lab number

Turnaround time

Priority Rush 1 Business Day

Rush 2 Business Days

Expedited 5 Business Days

Standard 10 Business Days

Condition of sample: _____ Temperature received: **RT**

Relinquished by sampler **Breita Barabolely** Date **2/6/02** Time **1510** Received by **Monica Lopez** Date **2/6/02** Time **1510**

Relinquished by _____ Date _____ Time _____ Received by _____ Date _____ Time _____

Relinquished by _____ Date _____ Time _____ Received by _____ Date _____ Time _____

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