



# STL

**STL Seattle**  
5755 8<sup>th</sup> Street East  
Tacoma, WA 98424

Tel: 253 922 2310  
Fax: 253 922 5047  
[www.stl-inc.com](http://www.stl-inc.com)

## TRANSMITTAL MEMORANDUM

DATE: April 28, 2005

TO: Jerry Brownstein  
Xextex Corporation  
70 E Sunset Way, #188  
Issaquah, WA 98027-3813

PROJECT: IRST

REPORT NUMBER: 127420

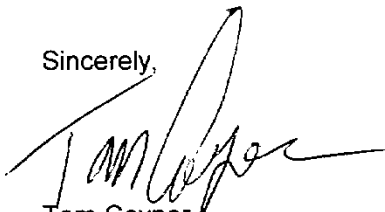
TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for two samples received at STL Seattle on April 20, 2005.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,



Tom Coyner  
Project Manager

---

STL Seattle is a part of Severn Trent Laboratories, Inc.

*This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.*

# STL Seattle

Sample Identification:

<u>Lab. No.</u>	<u>Client ID</u>	<u>Date/Time Sampled</u>	<u>Matrix</u>
127420-1	Reacted CI Agent/Diesel	04-20-05 *	solid
127420-2	Reacted CI Agent/Bunker oil	04-20-05 *	solid

\* - Sampling time not specified for this sample

---

STL Seattle is a part of Severn Trent Laboratories, Inc.

*This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.*

# STL Seattle

**Client Name**  
**Project Name**  
**Date Received**

Xextex Corporation  
IRST  
04-20-05

**Sample Preparation Information for Toxicity Characteristic  
Leaching Procedure (TCLP) EPA Method 1311**

**Client Sample ID**  
**Lab ID**

Reacted CI Agent/Diesel  
127420-01

% Solids: 100  
No. of Extractions: 1  
Type of Extraction(s): Rotary  
Extraction Fluid: #1  
Date Filtered: 04-21-05

# STL Seattle

Client Name:	Xetex Corporation
Client ID:	REACTED CI AGENT/DIESEL
Lab ID:	127420-01
Date Received:	4/20/2005
Date Prepared:	4/22/2005
Date Analyzed:	4/23/2005
% Solids	-
Dilution Factor	500

## TCLP Volatile Organics List by USEPA Method 5035\8260B

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	95.5		80	120
Fluorobenzene	108		80	120
Toluene-D8	101		80	120
Ethylbenzene-d10	107		80	120
Bromofluorobenzene	98.6		80	120
Trifluorotoluene	111		80	120

Analyte	Result (mg/L)	RL	Flags
Vinyl chloride	ND	0.2	
1,1-Dichloroethene	ND	0.2	
2-Butanone	ND	1	
Chloroform	ND	0.2	
Carbon Tetrachloride	ND	0.2	
Benzene	ND	0.5	
1,2-Dichloroethane	ND	0.2	
Trichloroethene	ND	0.2	
Tetrachloroethene	ND	0.2	
Chlorobenzene	ND	0.2	

# STL Seattle

Client Name:	Xetex Corporation
Client ID:	REACTED CI AGENT/DIESEL
Lab ID:	127420-01
Date Received:	4/20/2005
Date Prepared:	4/22/2005
Date Analyzed:	4/25/2005
% Solids	-
Dilution Factor	1

## TCLP Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
2 - Fluorophenol	96.9		2	120
Phenol - d5	103	X9	1	102
Nitrobenzene - d5	101		34	146
2 - Fluorobiphenyl	86.6		35	143
2,4,6 - Tribromophenol	80.4		29	151
p - Terphenyl - d14	104		35	166

Analyte	Result (ug/L)	RL	Flags
1,4-Dichlorobenzene	ND	20	
2-Methylphenol	ND	20	
3-&4-Methylphenol	ND	40	
Hexachloroethane	ND	20	
Nitrobenzene	ND	20	
Hexachlorobutadiene	ND	20	
2,4,6-Trichlorophenol	ND	20	
2,4,5-Trichlorophenol	ND	20	
2,4-Dinitrotoluene	ND	20	
Hexachlorobenzene	ND	20	
Pentachlorophenol	ND	20	
Pyridine	ND	50	

# STL Seattle

Client Name:	Xetex Corporation
Client ID:	REACTED CI AGENT/DIESEL
Lab ID:	127420-01
Date Received:	4/20/2005
Date Prepared:	4/22/2005
Date Analyzed:	4/25/2005
% Solids	-
Dilution Factor	1

## TCLP Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
2 - Fluorophenol	96.9		2	120
Phenol - d5	103	X9	1	102
2 - Fluorobiphenyl	86.6		35	143

Analyte	Result (ug/L)	RL	Flags
Pentachlorophenol	ND	20	

# STL Seattle

Client Name:	Xetex Corporation
Client ID:	REACTED CI AGENT/DIESEL
Lab ID:	127420-01
Date Received:	4/20/2005
Date Prepared:	4/21/2005
Date Analyzed:	4/22/2005
% Solids	-
Dilution Factor	1

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	78.4		50	150

Analyte	Result (mg/L)	RL	Flags
#2 Diesel	1.29	0.248	X1
Motor Oil	ND	0.497	

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

Client Name	Xextex Corporation
Client ID:	REACTED CI AGENT/DIESEL
Lab ID:	127420-01
Date Received:	4/20/05
Date Prepared:	4/21/05
Date Analyzed:	4/21/05
Dilution Factor	1

## TCLP Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	RL	Flags
Arsenic	ND	0.05	
Barium	ND	0.005	
Cadmium	ND	0.005	
Chromium	ND	0.02	
Lead	ND	0.02	
Selenium	ND	0.1	
Silver	ND	0.01	



# STL Seattle

Client Name	Xetex Corporation
Client ID:	REACTED CI AGENT/DIESEL
Lab ID:	127420-01
Date Received:	4/20/05
Date Prepared:	4/21/05
Date Analyzed:	4/21/05
Dilution Factor	1

## TCLP Mercury by CVAA - USEPA Method 7470

Analyte	Result (mg/L)	RL	Flags
Mercury	ND	0.002	

# STL Seattle

**Client Name**  
**Project Name**  
**Date Received**

Xextex Corporation  
IRST  
04-20-05

**Sample Preparation Information for Toxicity Characteristic  
Leaching Procedure (TCLP) EPA Method 1311**

**Client Sample ID**  
**Lab ID**

Reacted CI Agent/Bunker oil  
127420-02

% Solids: 100  
No. of Extractions: 1  
Type of Extraction(s): Rotary  
Extraction Fluid: #1  
Date Filtered: 04-21-05

# STL Seattle

Client Name:	Xetex Corporation
Client ID:	REACTED CI AGENT/BUNKER OIL
Lab ID:	127420-02
Date Received:	4/20/2005
Date Prepared:	4/22/2005
Date Analyzed:	4/23/2005
% Solids	-
Dilution Factor	500

## TCLP Volatile Organics List by USEPA Method 5035\8260B

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	96.9		80	120
Fluorobenzene	105		80	120
Toluene-D8	98.4		80	120
Ethylbenzene-d10	106		80	120
Bromofluorobenzene	93.8		80	120
Trifluorotoluene	102		80	120

Analyte	Result (mg/L)	RL	Flags
Vinyl chloride	ND	0.2	
1,1-Dichloroethene	ND	0.2	
2-Butanone	ND	1	
Chloroform	ND	0.2	
Carbon Tetrachloride	ND	0.2	
Benzene	ND	0.5	
1,2-Dichloroethane	ND	0.2	
Trichloroethene	ND	0.2	
Tetrachloroethene	ND	0.2	
Chlorobenzene	ND	0.2	

# STL Seattle

Client Name:	Xetex Corporation
Client ID:	REACTED CI AGENT/BUNKER OIL
Lab ID:	127420-02
Date Received:	4/20/2005
Date Prepared:	4/22/2005
Date Analyzed:	4/25/2005
% Solids	-
Dilution Factor	1

## TCLP Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
2 - Fluorophenol	86.6		2	120
Phenol - d5	93.7		1	102
Nitrobenzene - d5	87.2		34	146
2 - Fluorobiphenyl	101		35	143
2,4,6 - Tribromophenol	86		29	151
p - Terphenyl - d14	99.6		35	166

Analyte	Result (ug/L)	RL	Flags
1,4-Dichlorobenzene	ND	20	
2-Methylphenol	48.6	20	
3-&4-Methylphenol	82.1	40	
Hexachloroethane	ND	20	
Nitrobenzene	ND	20	
Hexachlorobutadiene	ND	20	
2,4,6-Trichlorophenol	ND	20	
2,4,5-Trichlorophenol	ND	20	
2,4-Dinitrotoluene	ND	20	
Hexachlorobenzene	ND	20	
Pentachlorophenol	ND	20	
Pyridine	ND	50	

# STL Seattle

Client Name:	Xetex Corporation
Client ID:	REACTED CI AGENT/BUNKER OIL
Lab ID:	127420-02
Date Received:	4/20/2005
Date Prepared:	4/22/2005
Date Analyzed:	4/25/2005
% Solids	-
Dilution Factor	1

## TCLP Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
2 - Fluorophenol	86.6		2	120
Phenol - d5	93.7		1	102
2 - Fluorobiphenyl	101		35	143

Analyte	Result (ug/L)	RL	Flags
Pentachlorophenol	ND	20	

# STL Seattle

Client Name:	Xextex Corporation
Client ID:	REACTED CI AGENT/BUNKER OIL
Lab ID:	127420-02
Date Received:	4/20/2005
Date Prepared:	4/21/2005
Date Analyzed:	4/22/2005
% Solids	-
Dilution Factor	1

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	103		50	150

Analyte	Result (mg/L)	RL	Flags
#2 Diesel	0.758	0.248	X1
Motor Oil	0.64	0.495	X1

X1 - Chromatogram suggests this might be fuel oil #6 or similar product

# STL Seattle

Client Name	Xextex Corporation
Client ID:	REACTED CI AGENT/BUNKER OIL
Lab ID:	127420-02
Date Received:	4/20/05
Date Prepared:	4/21/05
Date Analyzed:	4/21/05
Dilution Factor	1

## TCLP Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	RL	Flags
Arsenic	ND	0.05	
Barium	ND	0.005	
Cadmium	ND	0.005	
Chromium	ND	0.02	
Lead	ND	0.02	
Selenium	ND	0.1	
Silver	ND	0.01	

# STL Seattle

Client Name	Xextex Corporation
Client ID:	REACTED CI AGENT/BUNKER OIL
Lab ID:	127420-02
Date Received:	4/20/05
Date Prepared:	4/21/05
Date Analyzed:	4/21/05
Dilution Factor	1

## TCLP Mercury by CVAA - USEPA Method 7470

Analyte	Result (mg/L)	RL	Flags
Mercury	ND	0.002	



# STL Seattle

Lab ID:	Method Blank - VOA1264
Date Received:	-
Date Prepared:	4/22/2005
Date Analyzed:	4/22/2005
% Solids	-
Dilution Factor	500

## TCLP Volatile Organics List by USEPA Method 5035\8260B

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	104		80	120
Fluorobenzene	113		80	120
Toluene-D8	106		80	120
Ethylbenzene-d10	107		80	120
Bromofluorobenzene	100		80	120
Trifluorotoluene	101		80	120

Analyte	Result (mg/L)	RL	Flags
Vinyl chloride	ND	0.2	
1,1-Dichloroethene	ND	0.2	
2-Butanone	ND	1	
Chloroform	ND	0.2	
Carbon Tetrachloride	ND	0.2	
Benzene	ND	0.2	
1,2-Dichloroethane	ND	0.2	
Trichloroethene	ND	0.2	
Tetrachloroethene	ND	0.2	
Chlorobenzene	ND	0.2	

# STL Seattle

## Blank Spike Report

Lab ID: VOA1264  
Date Prepared: 4/22/2005  
Date Analyzed: 4/22/2005  
QC Batch ID: VOA1264

### Volatile Organics List by USEPA Method 5035\8260B

<b>Compound Name</b>	<b>Blank Result (mg/L)</b>	<b>Spike Amount (mg/L)</b>	<b>BS Result (mg/L)</b>	<b>BS % Rec.</b>	<b>Flag</b>
Vinyl chloride	0	2.5	2.65	106	
1,1-Dichloroethene	0	2.5	3.16	127	
2-Butanone	0	12.5	14.9	119	
Chloroform	0	2.5	2.94	118	
Carbon Tetrachloride	0	2.5	3.15	126	
Benzene	0	2.5	3.02	121	
1,2-Dichloroethane	0	2.5	2.91	117	
Trichloroethene	0	2.5	2.75	110	
Tetrachloroethene	0	2.5	2.79	111	
Chlorobenzene	0	2.5	2.81	112	

# STL Seattle

Lab ID:	Blank Spike - SVOA1264
Date Received:	-
Date Prepared:	4/22/2005
Date Analyzed:	4/22/2005
% Solids	-
Dilution Factor	500

## TCLP Volatile Organics List by USEPA Method 503518260B

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	101		80	120
Fluorobenzene	113		80	120
Toluene-D8	105		80	120
Ethylbenzene-d10	105		80	120
Bromofluorobenzene	101		80	120
Trifluorotoluene	102		80	120

Analyte	Result (mg/L)	RL	Flags
Vinyl chloride	2.65	0.2	
1,1-Dichloroethene	3.16	0.2	
2-Butanone	14.9	1	
Chloroform	2.94	0.2	
Carbon Tetrachloride	3.15	0.2	
Benzene	3.02	0.2	
1,2-Dichloroethane	2.91	0.2	
Trichloroethene	2.75	0.2	
Tetrachloroethene	2.79	0.2	
Chlorobenzene	2.81	0.2	

# STL Seattle

Lab ID:	Method Blank - SW1108
Date Received:	-
Date Prepared:	4/22/2005
Date Analyzed:	4/25/2005
% Solids	-
Dilution Factor	1

## TCLP Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
2 - Fluorophenol	97		2	120
Phenol - d5	97.7		1	102
Nitrobenzene - d5	100		34	146
2 - Fluorobiphenyl	107		35	143
2,4,6 - Tribromophenol	81.3		29	151
p - Terphenyl - d14	89.6		35	166

Analyte	Result (ug/L)	RL	Flags
1,4-Dichlorobenzene	ND	20	
2-Methylphenol	ND	20	
3-&4-Methylphenol	ND	40	
Hexachloroethane	ND	20	
Nitrobenzene	ND	20	
Hexachlorobutadiene	ND	20	
2,4,6-Trichlorophenol	ND	20	
2,4,5-Trichlorophenol	ND	20	
2,4-Dinitrotoluene	ND	20	
Hexachlorobenzene	ND	20	
Pentachlorophenol	ND	20	
Pyridine	ND	50	

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: SW1108  
Date Prepared: 4/22/2005  
Date Analyzed: 4/25/2005  
QC Batch ID: SW1108

### Semivolatile Organics by USEPA Method 8270

Compound Name	Blank Result (ug/L)	Spike Amount (ug/L)	BS Result (ug/L)	BS % Rec.	BSD Result (ug/L)	BSD % Rec.	RPD	Flag
1,4-Dichlorobenzene	0	100	98	98	102	102	4	
2-Methylphenol	0	100	74.1	74.1	78.4	78.4	5.6	
3-&4-Methylphenol	0	200	172	86	178	89.2	3.7	
Hexachloroethane	0	100	90.8	90.8	87.2	87.2	-4	
Nitrobenzene	0	100	95.4	95.4	104	104	8.6	
2,4,6-Trichlorophenol	0	100	91.2	91.2	86.5	86.5	-5.3	
2,4,5-Trichlorophenol	0	100	66.3	66.3	68.7	68.7	3.6	
2,4-Dinitrotoluene	0	100	77.6	77.6	77.7	77.7	0.13	
Hexachlorobenzene	0	100	76	76	83.1	83.1	8.9	
Pentachlorophenol	0	100	70.4	70.4	74.7	74.7	5.9	
Pyridine	0	200	159	79.7	167	83.3	4.4	

# STL Seattle

## Matrix Spike Report

Client Sample ID:	REACTED CI AGENT/DIESEL
Lab ID:	127420-01
Date Prepared:	4/22/2005
Date Analyzed:	4/25/2005
QC Batch ID:	SW1108

### Semivolatile Organics by USEPA Method 8270

Compound Name	Sample Result (ug/L)	Spike Amount (ug/L)	MS Result (ug/L)	MS % Rec.	Flag
1,4-Dichlorobenzene	0	100	97.3	97.3	
2-Methylphenol	16	100	105	89	
3-&4-Methylphenol	23	200	203	90.2	
Hexachloroethane	0	100	87	87	
Nitrobenzene	0	100	104	104	
2,4,6-Trichlorophenol	0	100	84.1	84.1	
2,4,5-Trichlorophenol	0	100	76	76	
2,4-Dinitrotoluene	0	100	76.6	76.6	
Hexachlorobenzene	0	100	62.5	62.5	
Pentachlorophenol	0	100	85.5	85.5	
Pyridine	0	200	100	50	

# STL Seattle

## Duplicate Report

Client Sample ID: REACTED CI AGENT/DIESEL  
Lab ID: 127420-01  
Date Prepared: 4/22/2005  
Date Analyzed: 4/25/2005  
QC Batch ID: SW1108

### Semivolatile Organics by USEPA Method 8270

Parameter Name	Sample Result (ug/L)	Duplicate Result (ug/L)	RPD %	Flag
1,4-Dichlorobenzene	0	0	NC	
2-Methylphenol	16.4	15.3	6.9	
3-&4-Methylphenol	22.6	16.1	34.0	
Hexachloroethane	0	0	NC	
Nitrobenzene	0	0	NC	
Hexachlorobutadiene	0	0	NC	
2,4,6-Trichlorophenol	0	0	NC	
2,4,5-Trichlorophenol	0	0	NC	
2,4-Dinitrotoluene	0	0	NC	
Hexachlorobenzene	0	0	NC	
Pentachlorophenol	0	0	NC	
Pyridine	0	0	NC	

# STL Seattle

Lab ID:	Method Blank - SW1108
Date Received:	-
Date Prepared:	4/22/2005
Date Analyzed:	4/25/2005
% Solids	-
Dilution Factor	1

## TCLP Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
2 - Fluorophenol	97		2	120
Phenol - d5	97.7		1	102
2 - Fluorobiphenyl	107		35	143

Analyte	Result (ug/L)	RL	Flags
Pentachlorophenol	ND	20	



# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: SW1108  
Date Prepared: 4/22/2005  
Date Analyzed: 4/25/2005  
QC Batch ID: SW1108

### Semivolatile Organics by USEPA Method 8270

Compound Name	Blank Result (ug/L)	Spike Amount (ug/L)	BS Result (ug/L)	BS % Rec.	BSD Result (ug/L)	BSD % Rec.	RPD	Flag
Pentachlorophenol	0	100	70.4	70.4	74.7	74.7	5.9	

# STL Seattle

## Matrix Spike Report

Client Sample ID:	REACTED CI AGENT/DIESEL
Lab ID:	127420-01
Date Prepared:	4/22/2005
Date Analyzed:	4/25/2005
QC Batch ID:	SW1108

### Semivolatile Organics by USEPA Method 8270

Compound Name	Sample Result (ug/L)	Spike Amount (ug/L)	MS Result (ug/L)	MS % Rec.	Flag
Pentachlorophenol	0	100	85.5	85.5	

# STL Seattle

## Duplicate Report

Client Sample ID: REACTED CI AGENT/DIESEL  
Lab ID: 127420-01  
Date Prepared: 4/22/2005  
Date Analyzed: 4/25/2005  
QC Batch ID: SW1108

### Semivolatile Organics by USEPA Method 8270

Parameter Name	Sample Result (ug/L)	Duplicate Result (ug/L)	RPD %	Flag
Pentachlorophenol	0	0	NC	

# STL Seattle

Lab ID:	Method Blank - DW0756
Date Received:	-
Date Prepared:	4/21/2005
Date Analyzed:	4/22/2005
% Solids	-
Dilution Factor	1

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	88.3		50	150

Analyte	Result (mg/L)	RL	Flags
#2 Diesel	ND	0.25	
Motor Oil	ND	0.5	

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DW0756  
Date Prepared: 4/21/2005  
Date Analyzed: 4/22/2005  
QC Batch ID: DW0756

### Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
#2 Diesel	0	5	4.52	90.4	4.44	88.8	-1.8	
Motor Oil	0	5	4.62	92.5	4.55	91.1	-1.5	

# STL Seattle

Lab ID:	Method Blank - LP151
Date Received:	-
Date Prepared:	4/21/05
Date Analyzed:	4/21/05
Dilution Factor:	1

## TCLP Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	RL	Flags
Arsenic	ND	0.05	
Barium	ND	0.005	
Cadmium	ND	0.005	
Chromium	ND	0.02	
Lead	ND	0.02	
Selenium	ND	0.1	
Silver	ND	0.01	

# STL Seattle

## Matrix Spike Report

Client Sample ID: REACTED CI AGENT/DIESEL  
Lab ID: 127420-01  
Date Prepared: 4/21/05  
Date Analyzed: 4/21/05  
QC Batch ID: LP151

### Metals by ICP - USEPA Method 6010

Parameter Name	Sample Result (mg/L)	Spike Amount (mg/L)	MS Result (mg/L)	MS % Rec.	Flag
Arsenic	0	5	5.21	104	
Barium	0	1	0.991	99	
Cadmium	0	1	1.01	101	
Chromium	0	5	4.99	100	
Lead	0	5	4.92	98	
Selenium	0	1	1.07	107	
Silver	0	5	5.24	105	

# STL Seattle

## Duplicate Report

Client Sample ID: REACTED CI AGENT/DIESEL  
Lab ID: 127420-01  
Date Prepared: 4/21/05  
Date Analyzed: 4/21/05  
QC Batch ID: LP151

### Metals by ICP - USEPA Method 6010

<b>Parameter Name</b>	<b>Sample Result (mg/L)</b>	<b>Duplicate Result (mg/L)</b>	<b>RPD %</b>	<b>Flag</b>
Arsenic	0	0	NC	
Barium	0	0	NC	
Cadmium	0	0	NC	
Chromium	0	0	NC	
Lead	0	0	NC	
Selenium	0	0	NC	
Silver	0	0	NC	



# STL Seattle

Lab ID:	Method Blank - ZL151
Date Received:	-
Date Prepared:	4/21/05
Date Analyzed:	4/21/05
Dilution Factor	1

## TCLP Mercury by CVAA - USEPA Method 7470

Analyte	Result (mg/L)	RL	Flags
Mercury	ND	0.002	

# STL Seattle

## Matrix Spike Report

Client Sample ID:	REACTED CI AGENT/DIESEL
Lab ID:	127420-01
Date Prepared:	4/21/05
Date Analyzed:	4/21/05
QC Batch ID:	ZL151

### Mercury by CVAA - USEPA Method 7470

Parameter Name	Sample Result (mg/L)	Spike Amount (mg/L)	MS Result (mg/L)	MS % Rec.	Flag
Mercury	0	0.02	0.0211	106	

# STL Seattle

## Duplicate Report

Client Sample ID: REACTED CI AGENT/DIESEL  
Lab ID: 127420-01  
Date Prepared: 4/21/05  
Date Analyzed: 4/21/05  
QC Batch ID: ZL151

### Mercury by CVAA - USEPA Method 7470

Parameter Name	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD %	Flag
Mercury	0	0	NC	

TCLP Regulatory Limits

Analyte	Maximum Contaminant Level (mg/L)
<b>METALS</b>	
Arsenic	5.0
Barium	100
Cadmium	1.0
Chromium	5.0
Lead	5.0
Selenium	1.0
Silver	5.0
Mercury	0.2

<b>CHLORINATED PESTICIDES</b>	
gamma-BHC (Lindane)	0.4
Chlordane (technical)	0.03
Endrin	0.02
Heptachlor	0.008
Heptachlor Epoxide	0.008
Methoxychlor	10
Toxaphene	0.5

<b>CHLORINATED HERBICIDES</b>	
2,4-D	10
Silvex (2,4,5-TP)	1.0

Analyte	Maximum Contaminant Level (mg/L)
<b>SEMIVOLATILE ORGANICS</b>	
1,4-Dichlorobenzene	7.5
2-Methylphenol	200
3- & 4-Methylphenol	200
Hexachloroethane	3.0
Nitrobenzene	2.0
Hexachlorobutadiene	0.5
2,4,6-Trichlorophenol	2.0
2,4,5-Trichlorophenol	400
2,4-Dinitrotoluene	0.13
Hexachlorobenzene	0.13
Pentachlorophenol	100
Pyridine	5.0

<b>VOLATILE ORGANICS</b>	
Vinyl Chloride	0.2
1,1-Dichloroethene	0.7
Chloroform	6.0
1,2-Dichloroethane	0.5
2-Butanone (MEK)	200
Carbon Tetrachloride	0.5
Trichloroethene	0.5
Benzene	0.5
Tetrachloroethene	0.7
Chlorobenzene	100

**DATA QUALIFIERS AND ABBREVIATIONS**

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3: Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be ≤ 30%.
- C4: Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- RL: Reporting Limit
- N: See analytical narrative
- ND: Not Detected
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.

