Khatri, Paresh, Env. Health

From: Tom Venus [tvenus@broadbentinc.com]
Sent: Tuesday, December 09, 2008 4:21 PM
To: Khatri, Paresh, Env. Health
Subject: FW: Supplemental Soil Sampling Plan at ARCO 374 - 6407 Telegraph Ave, Oakland
Attachments: SiteSketch.pdf; 08-12-0612.pdf; Telegraph Islands.JPG; Alcatraz islands.JPG

Hello Paresh,

As we just discussed on the telephone, I have forwarded the supplemental soil sampling plan (email below) for ARCO Sta.374 (RO78) at 6407 Telegraph Ave. in Oakland. I have also attached the final laboratory analytical results that became available this afternoon for the samples collected on 12/4, as well as two photographs of the Site taken yesterday morning. It disappoints BAI and BP-RM that circumstances did not allow for more significant excavation of impacted soil, or even to wait for the results of hand-auger samples collected this morning at depths below the two hot spots. But I am glad we discussed this as soon as we did. I am confident that you will eventually receive the resulting report to be submitted to Oakland Fire Dept.

Any further questions, please do not hesitate to contact me.
With regards,

Tom Venus, PE
Senior Engineer
Broadbent & Associates, Inc.
1324 Mangrove Ave., Ste. 212
Chico, California 95926
(530) 566-1400 phone
(530) 566-1401 fax
(530) 588-5887 mobile
tvenus@broadbentinc.com

From: Tom Venus [mailto:tvenus@broadbentinc.com]
Sent: Tuesday, December 09, 2008 8:57 AM
To: 'kmatthews@oaklandnet.com'
Cc: 'Supple, Paul V'; 'Scott Bittinger'; 'scott.listar@bp.com'; 'chavdar.christov@bovislendlease.com'
Subject: Supplemental Soil Sampling Plan at ARCO 374 - 6407 Telegraph Ave, Oakland

Mr. Matthews:

I have been made aware of the results of soil samples collected last Thursday 12/4/2008 from ARCO Station #374 at 6407 Telegraph Avenue in Oakland. Two sample locations exhibited relatively higher concentrations of Gasoline Range Organics (GRO): Sample PL3-3' with 6,500 mg/kg (milligrams per kilogram or parts per million – ppm), and Sample D4-2.5' with 1,500 mg/kg. Sample locations are shown on the attached Site sketch. Normally, concentrations in soil of this magnitude would be excavated and removed from the Site while the opportunity exists. However, we have been informed that the presence of other existing underground utilities and canopy structural supports prevents the further safe excavation and removal of impacted soil. Later today, a representative of Stratus Environmental Inc. will be collecting additional soil samples at the Site. Hand auger borings will be advanced beneath the locations of previous samples PL3-3' and D4-2.5'. Soil samples will be collected at depths in an attempt to delineate the vertical extent of impacted soil at these locations.

Samples will be submitted overnight under chain-of-custody protocol to Calscience Laboratory of Garden Grove California (CA-ELAP ID #1230). Samples are to be analyzed under standard turn-around time for the following parameters: Total Lead by EPA 5030; Gasoline Range Organics (C6-C12) by EPA 8015M; Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Methyl-Tertiary Butyl Ether (MTBE), 1,2-Dibromoethane (EDB), 1,2-Dichloroethane (1,2-DCA), Tert-Butyl Alcohol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-Butyl Ether (ETBE), Tert-Amyl-Methyl Ether (TAME), and Ethanol.

Should you have any further questions regarding this proposed sampling plan, please contact me or Mr. Paul Supple of Atlantic Richfield Company – Remediation Management (510-604-7259 mobile) or Mr. Scott Bittinger of Stratus (916-601-9756 mobile).

Tom Venus, PE
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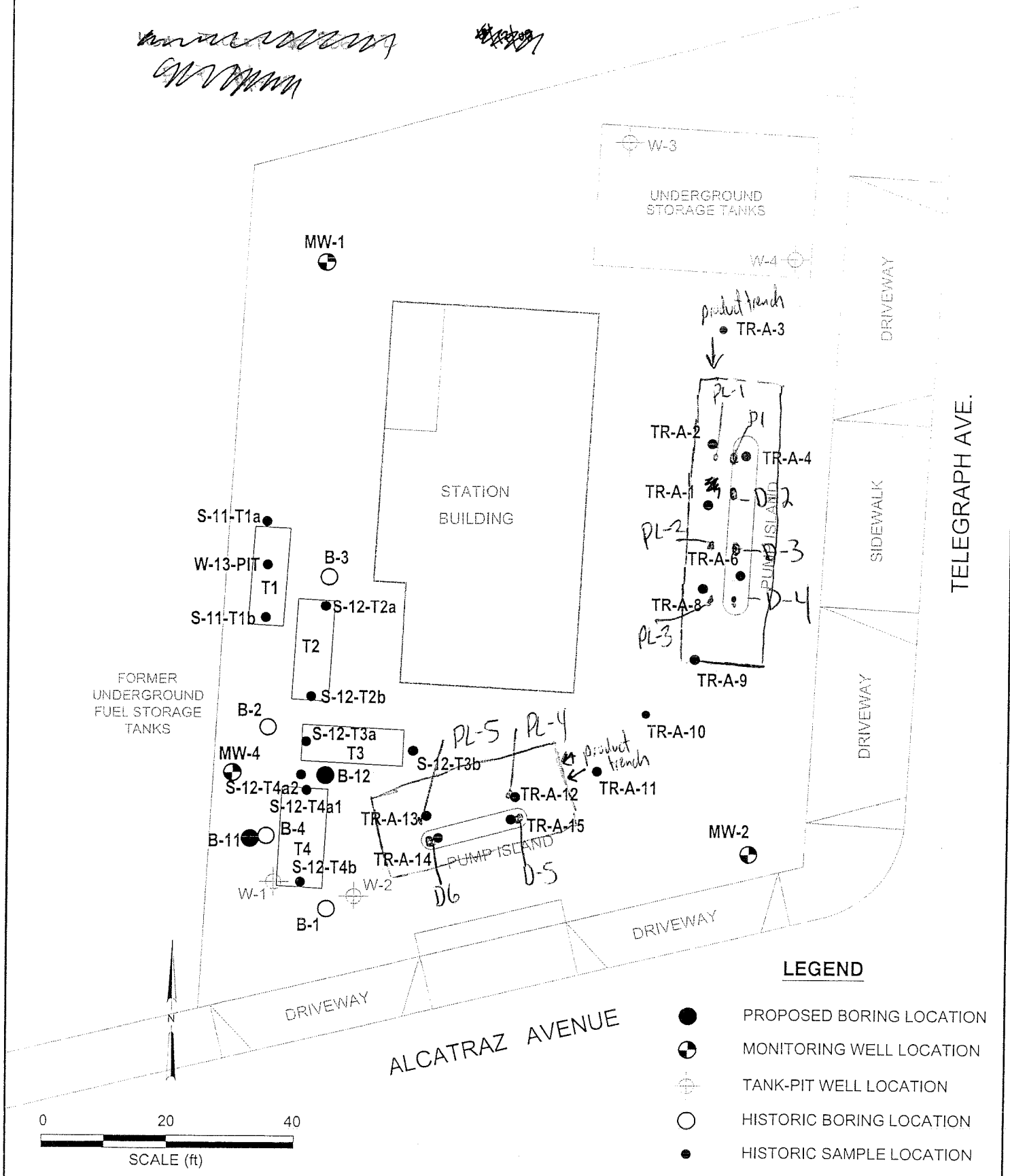
NOTE: SITE SKETCH ADAPTED FROM VARIOUS HISTORIC FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California
Project No.: 06-08-602 Date: 9/16/08

Station #374
6407 Telegraph Ave.
Oakland, California

Site Sketch With Historic and Proposed Sample Locations

Drawing
2

Calscience Environmental Laboratories, Inc.

December 09, 2008

Jay Johnson
Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Subject: **Calscience Work Order No.: 08-12-0612**
Client Reference: Arco Station 374

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/5/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Richard Villafania
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received:	12/05/08
Work Order No:	08-12-0612
Preparation:	EPA 3050B
Method:	EPA 6010B

Project: Arco Station 374

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL1-3'	**08-12-0612-1-A**	**12/04/08 11:57**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:25**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	5.49	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D1-2.5'	**08-12-0612-2-A**	**12/04/08 12:04**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:27**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	4.76	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D2-2.5'	**08-12-0612-3-A**	**12/04/08 12:10**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:29**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	5.50	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D3-2.5'	**08-12-0612-4-A**	**12/04/08 12:20**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:30**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	11.7	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Soil Waste Composite 1	**08-12-0612-5-A**	**12/04/08 11:45**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:32**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	5.37	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D4-2.5'	**08-12-0612-6-A**	**12/04/08 12:30**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:34**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	8.65	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 12/05/08
Work Order No: 08-12-0612
Preparation: EPA 3050B
Method: EPA 6010B

Project: Arco Station 374

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL2-3'	**08-12-0612-7-A**	**12/04/08 12:35**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:35**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	6.03	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL3-3'	**08-12-0612-8-A**	**12/04/08 12:40**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:37**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	12.2	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D6-2.5'	**08-12-0612-9-A**	**12/04/08 12:47**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:42**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	5.81	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL5-3'	**08-12-0612-10-A**	**12/04/08 12:53**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:44**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	4.89	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D5-2.5'	**08-12-0612-11-A**	**12/04/08 12:56**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:46**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	5.38	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL4-3'	**08-12-0612-12-A**	**12/04/08 13:02**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:48**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	5.16	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received:	12/05/08
Work Order No:	08-12-0612
Preparation:	EPA 3050B
Method:	EPA 6010B

Project: Arco Station 374

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Soil Waste Composite 2	**08-12-0612-17-A**	**12/04/08 13:15**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:49**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	8.24	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,791**	**N/A**	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08 11:06**	**081205L03**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received:	12/05/08
Work Order No:	08-12-0612
Preparation:	EPA 5030B
Method:	EPA 8015B (M)

Project: Arco Station 374

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL1-3'	**08-12-0612-1-A**	**12/04/08 11:57**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 01:24**	**081204B05**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	8.0	0.50	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	114	42-126			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D1-2.5'	**08-12-0612-2-A**	**12/04/08 12:04**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 07:14**	**081204B06**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	120	5.0	10		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	122	42-126			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D2-2.5'	**08-12-0612-3-A**	**12/04/08 12:10**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 01:56**	**081204B05**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	81	42-126			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D3-2.5'	**08-12-0612-4-A**	**12/04/08 12:20**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 07:45**	**081204B06**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	17	5.0	10		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	90	42-126			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received:	12/05/08
Work Order No:	08-12-0612
Preparation:	EPA 5030B
Method:	EPA 8015B (M)

Project: Arco Station 374

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Soil Waste Composite 1	**08-12-0612-5-A**	**12/04/08 11:45**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 02:28**	**081204B05**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	81	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D4-2.5'	**08-12-0612-6-A**	**12/04/08 12:30**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 10:25**	**081204B06**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	1500	120	250		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL2-3'	**08-12-0612-7-A**	**12/04/08 12:35**	**Solid**	**GC 1**	**12/05/08**	**12/05/08 23:49**	**081204B05**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	82	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL3-3'	**08-12-0612-8-A**	**12/04/08 12:40**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 10:57**	**081204B06**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	6500	120	250		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	160	42-126	LH

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 12/05/08
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: Arco Station 374

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D6-2.5'	**08-12-0612-9-A**	**12/04/08 12:47**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 02:59**	**081204B05**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	1.7	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL5-3'	**08-12-0612-10-A**	**12/04/08 12:53**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 04:03**	**081204B05**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	15	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	140	42-126	LH

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D5-2.5'	**08-12-0612-11-A**	**12/04/08 12:56**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 05:06**	**081204B05**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	2.9	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL4-3'	**08-12-0612-12-A**	**12/04/08 13:02**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 06:10**	**081204B05**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	26	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	153	42-126	LH

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.	Date Received:	12/05/08
3330 Cameron Park Drive, Suite 550	Work Order No:	08-12-0612
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: Arco Station 374

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Soil Waste Composite 2	**08-12-0612-17-A**	**12/04/08 13:15**	**Solid**	**GC 1**	**12/05/08**	**12/06/08 09:53**	**081204B06**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	77	5.0	10		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	112	42-126			

Method Blank	**099-12-697-58**	**N/A**	**Solid**	**GC 1**	**12/05/08**	**12/05/08 21:42**	**081204B05**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	84	42-126			

Method Blank	**099-12-697-59**	**N/A**	**Solid**	**GC 1**	**12/05/08**	**12/05/08 23:17**	**081204B06**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	5.0	10		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	86	42-126			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 12/05/08
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B
Units: mg/kg

Project: Arco Station 374

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL1-3'	**08-12-0612-1-A**	**12/04/08 11:57**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 20:27**	**081208L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
1,2-Dibromoethane	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	0.046	0.0010	1	
1,2-Dichloroethane	ND	0.0010	1		Tert-Butyl Alcohol (TBA)	0.019	0.010	1	
Ethylbenzene	ND	0.0010	1		Diisopropyl Ether (DIPE)	ND	0.0020	1	
Ethanol	ND	0.10	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	1	
Toluene	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	0.0027	0.0020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	80	75-141			1,2-Dichloroethane-d4	96	73-151		
Toluene-d8	102	87-111			1,4-Bromofluorobenzene	106	71-113		

D1-2.5'	**08-12-0612-2-A**	**12/04/08 12:04**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 16:29**	**081208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.15	0.10	100		Xylenes (total)	9.7	0.10	100	
1,2-Dibromoethane	ND	0.10	100		Methyl-t-Butyl Ether (MTBE)	ND	0.10	100	
1,2-Dichloroethane	ND	0.10	100		Tert-Butyl Alcohol (TBA)	ND	1.0	100	
Ethylbenzene	1.8	0.10	100		Diisopropyl Ether (DIPE)	ND	0.20	100	
Ethanol	ND	10	100		Ethyl-t-Butyl Ether (ETBE)	ND	0.20	100	
Toluene	ND	0.10	100		Tert-Amyl-Methyl Ether (TAME)	ND	0.20	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	133	75-141			1,2-Dichloroethane-d4	100	73-151		
Toluene-d8	105	87-111			1,4-Bromofluorobenzene	106	71-113		

D2-2.5'	**08-12-0612-3-A**	**12/04/08 12:10**	**Solid**	**GC/MS Z**	**12/06/08**	**12/06/08 18:54**	**081206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
1,2-Dibromoethane	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0010	1	
1,2-Dichloroethane	ND	0.0010	1		Tert-Butyl Alcohol (TBA)	ND	0.010	1	
Ethylbenzene	ND	0.0010	1		Diisopropyl Ether (DIPE)	ND	0.0020	1	
Ethanol	ND	0.10	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	1	
Toluene	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	129	75-141			1,2-Dichloroethane-d4	108	73-151		
Toluene-d8	98	87-111			1,4-Bromofluorobenzene	98	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.		Date Received:	12/05/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-12-0612
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	mg/kg
Project: Arco Station 374			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D3-2.5'	**08-12-0612-4-A**	**12/04/08 12:20**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 17:00**	**081208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.46	0.10	100		Xylenes (total)	1.8	0.10	100	
1,2-Dibromoethane	ND	0.10	100		Methyl-t-Butyl Ether (MTBE)	ND	0.10	100	
1,2-Dichloroethane	ND	0.10	100		Tert-Butyl Alcohol (TBA)	ND	1.0	100	
Ethylbenzene	0.91	0.10	100		Diisopropyl Ether (DIPE)	ND	0.20	100	
Ethanol	ND	10	100		Ethyl-t-Butyl Ether (ETBE)	ND	0.20	100	
Toluene	ND	0.10	100		Tert-Amyl-Methyl Ether (TAME)	ND	0.20	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	133	75-141			1,2-Dichloroethane-d4	95	73-151		
Toluene-d8	102	87-111			1,4-Bromofluorobenzene	101	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Soil Waste Composite 1	**08-12-0612-5-A**	**12/04/08 11:45**	**Solid**	**GC/MS Z**	**12/05/08**	**12/05/08 15:48**	**081205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
1,2-Dibromoethane	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0010	1	
1,2-Dichloroethane	ND	0.0010	1		Tert-Butyl Alcohol (TBA)	ND	0.010	1	
Ethylbenzene	ND	0.0010	1		Diisopropyl Ether (DIPE)	ND	0.0020	1	
Ethanol	ND	0.10	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	1	
Toluene	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	110	75-141			1,2-Dichloroethane-d4	117	73-151		
Toluene-d8	101	87-111			1,4-Bromofluorobenzene	98	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D4-2.5'	**08-12-0612-6-A**	**12/04/08 12:30**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 17:31**	**081208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	3.6	0.10	100		Xylenes (total)	2.9	0.10	100	
1,2-Dibromoethane	ND	0.10	100		Methyl-t-Butyl Ether (MTBE)	ND	0.10	100	
1,2-Dichloroethane	ND	0.10	100		Tert-Butyl Alcohol (TBA)	ND	1.0	100	
Ethylbenzene	3.6	0.10	100		Diisopropyl Ether (DIPE)	ND	0.20	100	
Ethanol	ND	10	100		Ethyl-t-Butyl Ether (ETBE)	ND	0.20	100	
Toluene	0.12	0.10	100		Tert-Amyl-Methyl Ether (TAME)	ND	0.20	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	132	75-141			1,2-Dichloroethane-d4	96	73-151		
Toluene-d8	108	87-111			1,4-Bromofluorobenzene	124	71-113		LH

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 12/05/08
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B
Units: mg/kg

Project: Arco Station 374

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL2-3'	**08-12-0612-7-A**	**12/04/08 12:35**	**Solid**	**GC/MS Z**	**12/05/08**	**12/05/08 17:22**	**081205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.0059	0.0010	1		Xylenes (total)	ND	0.0010	1	
1,2-Dibromoethane	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0010	1	
1,2-Dichloroethane	ND	0.0010	1		Tert-Butyl Alcohol (TBA)	ND	0.010	1	
Ethylbenzene	ND	0.0010	1		Diisopropyl Ether (DIPE)	ND	0.0020	1	
Ethanol	ND	0.10	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	1	
Toluene	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	93	75-141			1,2-Dichloroethane-d4	114	73-151		
Toluene-d8	102	87-111			1,4-Bromofluorobenzene	99	71-113		

PL3-3'	**08-12-0612-8-A**	**12/04/08 12:40**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 20:58**	**081208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	18	0.20	200		Xylenes (total)	12	0.20	200	
1,2-Dibromoethane	ND	0.20	200		Methyl-t-Butyl Ether (MTBE)	ND	0.20	200	
1,2-Dichloroethane	ND	0.20	200		Tert-Butyl Alcohol (TBA)	ND	2.0	200	
Ethylbenzene	25	0.20	200		Diisopropyl Ether (DIPE)	ND	0.40	200	
Ethanol	ND	20	200		Ethyl-t-Butyl Ether (ETBE)	ND	0.40	200	
Toluene	0.74	0.20	200		Tert-Amyl-Methyl Ether (TAME)	ND	0.40	200	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	134	75-141			1,2-Dichloroethane-d4	90	73-151		
Toluene-d8	113	87-111		LH	1,4-Bromofluorobenzene	234	71-113		LH

D6-2.5'	**08-12-0612-9-A**	**12/04/08 12:47**	**Solid**	**GC/MS Z**	**12/05/08**	**12/05/08 17:52**	**081205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.0054	0.0010	1		Xylenes (total)	0.021	0.0010	1	
1,2-Dibromoethane	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	0.0055	0.0010	1	
1,2-Dichloroethane	ND	0.0010	1		Tert-Butyl Alcohol (TBA)	ND	0.010	1	
Ethylbenzene	0.0037	0.0010	1		Diisopropyl Ether (DIPE)	ND	0.0020	1	
Ethanol	0.19	0.10	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	1	
Toluene	0.015	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	79	75-141			1,2-Dichloroethane-d4	124	73-151		
Toluene-d8	103	87-111			1,4-Bromofluorobenzene	103	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.		Date Received:	12/05/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-12-0612
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	mg/kg
Project: Arco Station 374			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL5-3'	**08-12-0612-10-A**	**12/04/08 12:53**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 18:54**	**081208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.10	100		Xylenes (total)	0.10	0.10	100	
1,2-Dibromoethane	ND	0.10	100		Methyl-t-Butyl Ether (MTBE)	ND	0.10	100	
1,2-Dichloroethane	ND	0.10	100		Tert-Butyl Alcohol (TBA)	ND	1.0	100	
Ethylbenzene	0.36	0.10	100		Diisopropyl Ether (DIPE)	ND	0.20	100	
Ethanol	ND	10	100		Ethyl-t-Butyl Ether (ETBE)	ND	0.20	100	
Toluene	ND	0.10	100		Tert-Amyl-Methyl Ether (TAME)	ND	0.20	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	75-141			1,2-Dichloroethane-d4	139	73-151		
Toluene-d8	103	87-111			1,4-Bromofluorobenzene	105	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D5-2.5'	**08-12-0612-11-A**	**12/04/08 12:56**	**Solid**	**GC/MS Z**	**12/06/08**	**12/06/08 19:25**	**081206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Xylenes (total)	0.0021	0.0010	1	
1,2-Dibromoethane	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	0.0038	0.0010	1	
1,2-Dichloroethane	ND	0.0010	1		Tert-Butyl Alcohol (TBA)	ND	0.010	1	
Ethylbenzene	ND	0.0010	1		Diisopropyl Ether (DIPE)	ND	0.0020	1	
Ethanol	ND	0.10	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	1	
Toluene	0.0019	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	75-141			1,2-Dichloroethane-d4	111	73-151		
Toluene-d8	101	87-111			1,4-Bromofluorobenzene	97	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PL4-3'	**08-12-0612-12-A**	**12/04/08 13:02**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 19:25**	**081208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.10	100		Xylenes (total)	ND	0.10	100	
1,2-Dibromoethane	ND	0.10	100		Methyl-t-Butyl Ether (MTBE)	0.16	0.10	100	
1,2-Dichloroethane	ND	0.10	100		Tert-Butyl Alcohol (TBA)	ND	1.0	100	
Ethylbenzene	0.35	0.10	100		Diisopropyl Ether (DIPE)	ND	0.20	100	
Ethanol	ND	10	100		Ethyl-t-Butyl Ether (ETBE)	ND	0.20	100	
Toluene	ND	0.10	100		Tert-Amyl-Methyl Ether (TAME)	ND	0.20	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	75-141			1,2-Dichloroethane-d4	86	73-151		
Toluene-d8	102	87-111			1,4-Bromofluorobenzene	105	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.		Date Received:	12/05/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-12-0612
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	mg/kg
Project: Arco Station 374			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Soil Waste Composite 2	**08-12-0612-17-A**	**12/04/08 13:15**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 19:56**	**081208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.11	0.10	100		Xylenes (total)	0.62	0.10	100	
1,2-Dibromoethane	ND	0.10	100		Methyl-t-Butyl Ether (MTBE)	ND	0.10	100	
1,2-Dichloroethane	ND	0.10	100		Tert-Butyl Alcohol (TBA)	ND	1.0	100	
Ethylbenzene	0.28	0.10	100		Diisopropyl Ether (DIPE)	ND	0.20	100	
Ethanol	ND	10	100		Ethyl-t-Butyl Ether (ETBE)	ND	0.20	100	
Toluene	0.71	0.10	100		Tert-Amyl-Methyl Ether (TAME)	ND	0.20	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	75-141			1,2-Dichloroethane-d4	90	73-151		
Toluene-d8	103	87-111			1,4-Bromofluorobenzene	107	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-709-71**	**N/A**	**Solid**	**GC/MS Z**	**12/05/08**	**12/05/08 15:18**	**081205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
1,2-Dibromoethane	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0010	1	
1,2-Dichloroethane	ND	0.0010	1		Tert-Butyl Alcohol (TBA)	ND	0.010	1	
Ethylbenzene	ND	0.0010	1		Diisopropyl Ether (DIPE)	ND	0.0020	1	
Ethanol	ND	0.10	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	1	
Toluene	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	75-141			1,2-Dichloroethane-d4	108	73-151		
Toluene-d8	102	87-111			1,4-Bromofluorobenzene	98	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-709-72**	**N/A**	**Solid**	**GC/MS Z**	**12/06/08**	**12/06/08 16:50**	**081206L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
1,2-Dibromoethane	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0010	1	
1,2-Dichloroethane	ND	0.0010	1		Tert-Butyl Alcohol (TBA)	ND	0.010	1	
Ethylbenzene	ND	0.0010	1		Diisopropyl Ether (DIPE)	ND	0.0020	1	
Ethanol	ND	0.10	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	1	
Toluene	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	125	75-141			1,2-Dichloroethane-d4	104	73-151		
Toluene-d8	100	87-111			1,4-Bromofluorobenzene	93	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Stratus Environmental, inc.		Date Received:	12/05/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-12-0612
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	mg/kg
Project: Arco Station 374			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-709-73**	**N/A**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 13:23**	**081208L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0010	1		Xylenes (total)	ND	0.0010	1	
1,2-Dibromoethane	ND	0.0010	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0010	1	
1,2-Dichloroethane	ND	0.0010	1		Tert-Butyl Alcohol (TBA)	ND	0.010	1	
Ethylbenzene	ND	0.0010	1		Diisopropyl Ether (DIPE)	ND	0.0020	1	
Ethanol	ND	0.10	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	1	
Toluene	ND	0.0010	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.0020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	136	75-141			1,2-Dichloroethane-d4	101	73-151		
Toluene-d8	103	87-111			1,4-Bromofluorobenzene	101	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-709-74**	**N/A**	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08 12:52**	**081208L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.10	100		Xylenes (total)	ND	0.10	100	
1,2-Dibromoethane	ND	0.10	100		Methyl-t-Butyl Ether (MTBE)	ND	0.10	100	
1,2-Dichloroethane	ND	0.10	100		Tert-Butyl Alcohol (TBA)	ND	1.0	100	
Ethylbenzene	ND	0.10	100		Diisopropyl Ether (DIPE)	ND	0.20	100	
Ethanol	ND	10	100		Ethyl-t-Butyl Ether (ETBE)	ND	0.20	100	
Toluene	ND	0.10	100		Tert-Amyl-Methyl Ether (TAME)	ND	0.20	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	136	75-141			1,2-Dichloroethane-d4	99	73-151		
Toluene-d8	103	87-111			1,4-Bromofluorobenzene	100	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 12/05/08
Work Order No: 08-12-0612
Preparation: EPA 3050B
Method: EPA 6010B

Project Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-12-0244-5	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08**	**081205S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	98	98	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

Stratus Environmental, inc.		Date Received	12/05/08
3330 Cameron Park Drive, Suite 550		Work Order No:	08-12-0612
Cameron Park, CA 95682-8861		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
08-12-0244-5	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08**	**081205S03**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	94	93	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 12/05/08
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
PL2-3'	**Solid**	**GC 1**	**12/05/08**	**12/06/08**	**081204S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	91	97	42-126	6	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 12/05/08
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Soil Waste Composite 1	**Solid**	**GC/MS Z**	**12/05/08**	**12/05/08**	**081205S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	92	78-114	1	0-14	
Chloroform	77	74	80-120	3	0-20	LN
1,1-Dichloroethane	98	98	80-120	1	0-20	
1,2-Dichloroethane	112	110	80-120	1	0-20	
1,1-Dichloroethene	110	105	73-127	4	0-21	
Ethanol	100	102	45-135	1	0-29	
Tetrachloroethene	73	70	80-120	4	0-20	LN
Toluene	95	94	74-116	2	0-16	
Trichloroethene	94	91	74-122	2	0-17	
Methyl-t-Butyl Ether (MTBE)	118	115	69-123	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 12/05/08
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-11-2370-6	**Solid**	**GC/MS Z**	**12/06/08**	**12/06/08**	**081206S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	72	64	78-114	12	0-14	LN
Chloroform	81	66	80-120	19	0-20	LN
1,1-Dichloroethane	79	65	80-120	19	0-20	LN
1,2-Dichloroethane	77	65	80-120	16	0-20	LN
1,1-Dichloroethene	79	68	73-127	15	0-21	LN
Ethanol	89	65	45-135	20	0-29	
Tetrachloroethene	72	63	80-120	12	0-20	LN
Toluene	72	63	74-116	13	0-16	LN
Trichloroethene	74	65	74-122	12	0-17	LN
Methyl-t-Butyl Ether (MTBE)	0	0	69-123	7	0-18	LN

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 12/05/08
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-12-0245-5	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08**	**081208S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	71	80	78-114	12	0-14	LN
Chloroform	76	88	80-120	15	0-20	LN
1,1-Dichloroethane	69	79	80-120	14	0-20	LN
1,2-Dichloroethane	73	81	80-120	11	0-20	LN
1,1-Dichloroethene	65	75	73-127	15	0-21	LN
Ethanol	53	65	45-135	21	0-29	
Tetrachloroethene	60	68	80-120	13	0-20	LN
Toluene	74	83	74-116	12	0-16	
Trichloroethene	75	83	74-122	11	0-17	
Methyl-t-Butyl Ether (MTBE)	77	89	69-123	15	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 3050B
Method: EPA 6010B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-11,791	**Solid**	**ICP 5300**	**12/05/08**	**12/06/08**	**081205L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	110	109	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	08-12-0612
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-697-59	**Solid**	**GC 1**	**12/05/08**	**12/05/08**	**081204B06**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	75	87	70-118	16	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-697-58	**Solid**	**GC 1**	**12/05/08**	**12/05/08**	**081204B05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	75	87	70-118	16	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-709-71	**Solid**	**GC/MS Z**	**12/05/08**	**12/05/08**	**081205L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	101	84-114	79-119	3	0-7	
Bromobenzene	101	100	80-120	73-127	1	0-20	
Bromochloromethane	98	95	80-120	73-127	3	0-20	
Bromodichloromethane	112	110	80-120	73-127	1	0-20	
Bromoform	123	119	80-120	73-127	4	0-20	LQ
Bromomethane	105	91	80-120	73-127	15	0-20	
n-Butylbenzene	97	100	77-123	69-131	3	0-25	
sec-Butylbenzene	94	98	80-120	73-127	4	0-20	
tert-Butylbenzene	107	107	80-120	73-127	0	0-20	
Carbon Disulfide	141	153	80-120	73-127	8	0-20	LQ
Carbon Tetrachloride	115	117	69-135	58-146	1	0-13	
Chlorobenzene	96	97	85-109	81-113	1	0-8	
Chloroethane	91	104	80-120	73-127	14	0-20	
Chloroform	80	80	80-120	73-127	0	0-20	
Chloromethane	57	73	80-120	73-127	25	0-20	LR,BA
2-Chlorotoluene	99	102	80-120	73-127	2	0-20	
4-Chlorotoluene	98	102	80-120	73-127	3	0-20	
Dibromochloromethane	114	108	80-120	73-127	5	0-20	
1,2-Dibromo-3-Chloropropane	103	107	80-120	73-127	4	0-20	
1,2-Dibromoethane	107	103	80-120	73-127	4	0-20	
Dibromomethane	108	106	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	100	100	80-110	75-115	0	0-10	
1,3-Dichlorobenzene	99	101	80-120	73-127	2	0-20	
1,4-Dichlorobenzene	100	101	80-120	73-127	1	0-20	
Dichlorodifluoromethane	80	101	80-120	73-127	23	0-20	BA
1,1-Dichloroethane	102	105	80-120	73-127	3	0-20	
1,2-Dichloroethane	110	109	80-120	73-127	1	0-20	
1,1-Dichloroethene	112	118	83-125	76-132	5	0-10	
c-1,2-Dichloroethene	101	103	80-120	73-127	1	0-20	
t-1,2-Dichloroethene	115	115	80-120	73-127	0	0-20	
1,2-Dichloropropane	91	92	79-115	73-121	1	0-25	
1,3-Dichloropropane	102	99	80-120	73-127	3	0-20	
2,2-Dichloropropane	118	117	80-120	73-127	0	0-20	
1,1-Dichloropropene	96	98	80-120	73-127	3	0-20	
c-1,3-Dichloropropene	107	105	80-120	73-127	2	0-20	
t-1,3-Dichloropropene	108	102	80-120	73-127	5	0-20	
Ethylbenzene	98	100	80-120	73-127	2	0-20	
Isopropylbenzene	99	100	80-120	73-127	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-709-71	**Solid**	**GC/MS Z**	**12/05/08**	**12/05/08**	**081205L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
p-Isopropyltoluene	101	102	80-120	73-127	2	0-20	
Methylene Chloride	106	110	80-120	73-127	3	0-20	
Naphthalene	96	95	80-120	73-127	1	0-20	
n-Propylbenzene	98	100	80-120	73-127	2	0-20	
Styrene	96	97	80-120	73-127	1	0-20	
Ethanol	82	111	50-134	36-148	29	0-23	BA
1,1,1,2-Tetrachloroethane	111	107	80-120	73-127	3	0-20	
1,1,2,2-Tetrachloroethane	105	102	80-120	73-127	3	0-20	
Tetrachloroethene	85	95	80-120	73-127	10	0-20	
Toluene	100	102	79-115	73-121	2	0-8	
1,2,3-Trichlorobenzene	107	104	80-120	73-127	3	0-20	
1,2,4-Trichlorobenzene	106	104	80-120	73-127	2	0-20	
1,1,1-Trichloroethane	110	115	80-120	73-127	5	0-20	
1,1,2-Trichloroethane	100	98	80-120	73-127	3	0-20	
Trichloroethene	98	103	87-111	83-115	5	0-7	
Trichlorofluoromethane	118	127	80-120	73-127	8	0-20	LQ
1,2,3-Trichloropropane	105	107	80-120	73-127	2	0-20	
1,2,4-Trimethylbenzene	100	101	80-120	73-127	2	0-20	
1,3,5-Trimethylbenzene	101	102	80-120	73-127	2	0-20	
Vinyl Acetate	140	129	80-120	73-127	8	0-20	LQ
Vinyl Chloride	68	87	72-126	63-135	25	0-10	LR,BA
p/m-Xylene	96	98	80-120	73-127	2	0-20	
o-Xylene	101	102	80-120	73-127	1	0-20	
Methyl-t-Butyl Ether (MTBE)	120	113	75-129	66-138	6	0-13	
Tert-Butyl Alcohol (TBA)	97	99	66-126	56-136	2	0-24	
Diisopropyl Ether (DIPE)	83	80	77-125	69-133	4	0-13	
Ethyl-t-Butyl Ether (ETBE)	97	92	72-132	62-142	6	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	98	77-125	69-133	5	0-10	

Total number of LCS compounds : 66
Total number of ME compounds : 2
Total number of ME compounds allowed : 3
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-709-72	**Solid**	**GC/MS Z**	**12/06/08**	**12/06/08**	**081206L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	97	96	84-114	79-119	1	0-7	
Bromobenzene	104	100	80-120	73-127	4	0-20	
Bromochloromethane	96	92	80-120	73-127	5	0-20	
Bromodichloromethane	106	103	80-120	73-127	3	0-20	
Bromoform	107	102	80-120	73-127	4	0-20	
Bromomethane	88	86	80-120	73-127	2	0-20	
n-Butylbenzene	102	103	77-123	69-131	1	0-25	
sec-Butylbenzene	102	104	80-120	73-127	1	0-20	
tert-Butylbenzene	102	101	80-120	73-127	1	0-20	
Carbon Disulfide	97	98	80-120	73-127	1	0-20	
Carbon Tetrachloride	101	101	69-135	58-146	0	0-13	
Chlorobenzene	99	99	85-109	81-113	0	0-8	
Chloroethane	102	103	80-120	73-127	1	0-20	
Chloroform	101	102	80-120	73-127	1	0-20	
Chloromethane	95	100	80-120	73-127	5	0-20	
2-Chlorotoluene	105	104	80-120	73-127	0	0-20	
4-Chlorotoluene	100	99	80-120	73-127	0	0-20	
Dibromochloromethane	105	101	80-120	73-127	4	0-20	
1,2-Dibromo-3-Chloropropane	97	101	80-120	73-127	4	0-20	
1,2-Dibromoethane	102	100	80-120	73-127	2	0-20	
Dibromomethane	100	98	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	99	97	80-110	75-115	1	0-10	
1,3-Dichlorobenzene	100	99	80-120	73-127	2	0-20	
1,4-Dichlorobenzene	100	100	80-120	73-127	0	0-20	
Dichlorodifluoromethane	100	103	80-120	73-127	3	0-20	
1,1-Dichloroethane	99	98	80-120	73-127	1	0-20	
1,2-Dichloroethane	103	100	80-120	73-127	3	0-20	
1,1-Dichloroethene	98	100	83-125	76-132	2	0-10	
c-1,2-Dichloroethene	90	92	80-120	73-127	2	0-20	
t-1,2-Dichloroethene	90	93	80-120	73-127	4	0-20	
1,2-Dichloropropane	102	99	79-115	73-121	3	0-25	
1,3-Dichloropropane	102	97	80-120	73-127	5	0-20	
2,2-Dichloropropane	101	100	80-120	73-127	1	0-20	
1,1-Dichloropropene	96	97	80-120	73-127	1	0-20	
c-1,3-Dichloropropene	105	102	80-120	73-127	3	0-20	
t-1,3-Dichloropropene	105	103	80-120	73-127	3	0-20	
Ethylbenzene	102	102	80-120	73-127	1	0-20	
Isopropylbenzene	104	105	80-120	73-127	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-709-72	**Solid**	**GC/MS Z**	**12/06/08**	**12/06/08**	**081206L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
p-Isopropyltoluene	103	102	80-120	73-127	0	0-20	
Methylene Chloride	98	98	80-120	73-127	1	0-20	
Naphthalene	101	102	80-120	73-127	0	0-20	
n-Propylbenzene	105	104	80-120	73-127	0	0-20	
Styrene	102	102	80-120	73-127	0	0-20	
Ethanol	110	103	50-134	36-148	6	0-23	
1,1,1,2-Tetrachloroethane	103	100	80-120	73-127	3	0-20	
1,1,2,2-Tetrachloroethane	105	101	80-120	73-127	4	0-20	
Tetrachloroethene	94	99	80-120	73-127	6	0-20	
Toluene	98	98	79-115	73-121	1	0-8	
1,2,3-Trichlorobenzene	100	98	80-120	73-127	2	0-20	
1,2,4-Trichlorobenzene	97	97	80-120	73-127	0	0-20	
1,1,1-Trichloroethane	115	108	80-120	73-127	7	0-20	
1,1,2-Trichloroethane	101	98	80-120	73-127	3	0-20	
Trichloroethene	100	100	87-111	83-115	0	0-7	
Trichlorofluoromethane	101	104	80-120	73-127	3	0-20	
1,2,3-Trichloropropane	99	98	80-120	73-127	1	0-20	
1,2,4-Trimethylbenzene	101	102	80-120	73-127	1	0-20	
1,3,5-Trimethylbenzene	102	102	80-120	73-127	0	0-20	
Vinyl Acetate	101	94	80-120	73-127	7	0-20	
Vinyl Chloride	89	91	72-126	63-135	2	0-10	
p/m-Xylene	101	101	80-120	73-127	0	0-20	
o-Xylene	103	103	80-120	73-127	0	0-20	
Methyl-t-Butyl Ether (MTBE)	99	97	75-129	66-138	2	0-13	
Tert-Butyl Alcohol (TBA)	96	95	66-126	56-136	2	0-24	
Diisopropyl Ether (DIPE)	96	96	77-125	69-133	0	0-13	
Ethyl-t-Butyl Ether (ETBE)	99	99	72-132	62-142	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	98	77-125	69-133	5	0-10	

Total number of LCS compounds : 66
Total number of ME compounds : 0
Total number of ME compounds allowed : 3
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-709-73	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08**	**081208L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	92	94	84-114	79-119	2	0-7	
Bromobenzene	96	98	80-120	73-127	2	0-20	
Bromochloromethane	94	94	80-120	73-127	1	0-20	
Bromodichloromethane	102	103	80-120	73-127	1	0-20	
Bromoform	96	102	80-120	73-127	6	0-20	
Bromomethane	99	95	80-120	73-127	3	0-20	
n-Butylbenzene	97	97	77-123	69-131	1	0-25	
sec-Butylbenzene	94	94	80-120	73-127	0	0-20	
tert-Butylbenzene	95	93	80-120	73-127	2	0-20	
Carbon Disulfide	98	98	80-120	73-127	0	0-20	
Carbon Tetrachloride	100	98	69-135	58-146	1	0-13	
Chlorobenzene	97	100	85-109	81-113	4	0-8	
Chloroethane	93	92	80-120	73-127	2	0-20	
Chloroform	101	100	80-120	73-127	1	0-20	
Chloromethane	71	69	80-120	73-127	3	0-20	LR
2-Chlorotoluene	101	102	80-120	73-127	1	0-20	
4-Chlorotoluene	94	95	80-120	73-127	1	0-20	
Dibromochloromethane	96	100	80-120	73-127	4	0-20	
1,2-Dibromo-3-Chloropropane	91	94	80-120	73-127	2	0-20	
1,2-Dibromoethane	93	96	80-120	73-127	3	0-20	
Dibromomethane	96	99	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	91	90	80-110	75-115	1	0-10	
1,3-Dichlorobenzene	91	93	80-120	73-127	2	0-20	
1,4-Dichlorobenzene	92	91	80-120	73-127	1	0-20	
Dichlorodifluoromethane	97	96	80-120	73-127	1	0-20	
1,1-Dichloroethane	91	92	80-120	73-127	1	0-20	
1,2-Dichloroethane	89	92	80-120	73-127	3	0-20	
1,1-Dichloroethene	88	87	83-125	76-132	2	0-10	
c-1,2-Dichloroethene	90	89	80-120	73-127	1	0-20	
t-1,2-Dichloroethene	89	87	80-120	73-127	3	0-20	
1,2-Dichloropropane	93	94	79-115	73-121	1	0-25	
1,3-Dichloropropane	94	98	80-120	73-127	4	0-20	
2,2-Dichloropropane	100	98	80-120	73-127	2	0-20	
1,1-Dichloropropene	98	98	80-120	73-127	0	0-20	
c-1,3-Dichloropropene	102	105	80-120	73-127	3	0-20	
t-1,3-Dichloropropene	100	103	80-120	73-127	3	0-20	
Ethylbenzene	100	100	80-120	73-127	0	0-20	
Isopropylbenzene	98	99	80-120	73-127	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-709-73	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08**	**081208L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
p-Isopropyltoluene	95	94	80-120	73-127	1	0-20	
Methylene Chloride	101	101	80-120	73-127	1	0-20	
Naphthalene	90	95	80-120	73-127	6	0-20	
n-Propylbenzene	101	101	80-120	73-127	1	0-20	
Styrene	99	102	80-120	73-127	3	0-20	
Ethanol	68	81	50-134	36-148	17	0-23	
1,1,1,2-Tetrachloroethane	95	96	80-120	73-127	1	0-20	
1,1,2,2-Tetrachloroethane	98	101	80-120	73-127	4	0-20	
Tetrachloroethene	82	92	80-120	73-127	11	0-20	
Toluene	97	97	79-115	73-121	1	0-8	
1,2,3-Trichlorobenzene	89	93	80-120	73-127	4	0-20	
1,2,4-Trichlorobenzene	88	91	80-120	73-127	3	0-20	
1,1,1-Trichloroethane	112	111	80-120	73-127	1	0-20	
1,1,2-Trichloroethane	95	97	80-120	73-127	2	0-20	
Trichloroethene	98	100	87-111	83-115	2	0-7	
Trichlorofluoromethane	101	99	80-120	73-127	2	0-20	
1,2,3-Trichloropropane	91	94	80-120	73-127	3	0-20	
1,2,4-Trimethylbenzene	92	93	80-120	73-127	1	0-20	
1,3,5-Trimethylbenzene	96	97	80-120	73-127	1	0-20	
Vinyl Acetate	98	98	80-120	73-127	0	0-20	
Vinyl Chloride	79	75	72-126	63-135	5	0-10	
p/m-Xylene	98	98	80-120	73-127	0	0-20	
o-Xylene	101	102	80-120	73-127	1	0-20	
Methyl-t-Butyl Ether (MTBE)	98	101	75-129	66-138	3	0-13	
Tert-Butyl Alcohol (TBA)	82	86	66-126	56-136	5	0-24	
Diisopropyl Ether (DIPE)	79	81	77-125	69-133	3	0-13	
Ethyl-t-Butyl Ether (ETBE)	88	89	72-132	62-142	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	103	77-125	69-133	3	0-10	

Total number of LCS compounds : 66
Total number of ME compounds : 0
Total number of ME compounds allowed : 3
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-709-74	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08**	**081208L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	92	94	84-114	79-119	2	0-7	
Bromobenzene	96	98	80-120	73-127	2	0-20	
Bromochloromethane	94	94	80-120	73-127	1	0-20	
Bromodichloromethane	102	103	80-120	73-127	1	0-20	
Bromoform	96	102	80-120	73-127	6	0-20	
Bromomethane	99	95	80-120	73-127	3	0-20	
n-Butylbenzene	97	97	77-123	69-131	1	0-25	
sec-Butylbenzene	94	94	80-120	73-127	0	0-20	
tert-Butylbenzene	95	93	80-120	73-127	2	0-20	
Carbon Disulfide	98	98	80-120	73-127	0	0-20	
Carbon Tetrachloride	100	98	69-135	58-146	1	0-13	
Chlorobenzene	97	100	85-109	81-113	4	0-8	
Chloroethane	93	92	80-120	73-127	2	0-20	
Chloroform	101	100	80-120	73-127	1	0-20	
Chloromethane	71	69	80-120	73-127	3	0-20	LR
2-Chlorotoluene	101	102	80-120	73-127	1	0-20	
4-Chlorotoluene	94	95	80-120	73-127	1	0-20	
Dibromochloromethane	96	100	80-120	73-127	4	0-20	
1,2-Dibromo-3-Chloropropane	91	94	80-120	73-127	2	0-20	
1,2-Dibromoethane	93	96	80-120	73-127	3	0-20	
Dibromomethane	96	99	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	91	90	80-110	75-115	1	0-10	
1,3-Dichlorobenzene	91	93	80-120	73-127	2	0-20	
1,4-Dichlorobenzene	92	91	80-120	73-127	1	0-20	
Dichlorodifluoromethane	97	96	80-120	73-127	1	0-20	
1,1-Dichloroethane	91	92	80-120	73-127	1	0-20	
1,2-Dichloroethane	89	92	80-120	73-127	3	0-20	
1,1-Dichloroethene	88	87	83-125	76-132	2	0-10	
c-1,2-Dichloroethene	90	89	80-120	73-127	1	0-20	
t-1,2-Dichloroethene	89	87	80-120	73-127	3	0-20	
1,2-Dichloropropane	93	94	79-115	73-121	1	0-25	
1,3-Dichloropropane	94	98	80-120	73-127	4	0-20	
2,2-Dichloropropane	100	98	80-120	73-127	2	0-20	
1,1-Dichloropropene	98	98	80-120	73-127	0	0-20	
c-1,3-Dichloropropene	102	105	80-120	73-127	3	0-20	
t-1,3-Dichloropropene	100	103	80-120	73-127	3	0-20	
Ethylbenzene	100	100	80-120	73-127	0	0-20	
Isopropylbenzene	98	99	80-120	73-127	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: N/A
Work Order No: 08-12-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: Arco Station 374

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-709-74	**Solid**	**GC/MS Z**	**12/08/08**	**12/08/08**	**081208L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
p-Isopropyltoluene	95	94	80-120	73-127	1	0-20	
Methylene Chloride	101	101	80-120	73-127	1	0-20	
Naphthalene	90	95	80-120	73-127	6	0-20	
n-Propylbenzene	101	101	80-120	73-127	1	0-20	
Styrene	99	102	80-120	73-127	3	0-20	
Ethanol	68	81	50-134	36-148	17	0-23	
1,1,1,2-Tetrachloroethane	95	96	80-120	73-127	1	0-20	
1,1,2,2-Tetrachloroethane	98	101	80-120	73-127	4	0-20	
Tetrachloroethene	82	92	80-120	73-127	11	0-20	
Toluene	97	97	79-115	73-121	1	0-8	
1,2,3-Trichlorobenzene	89	93	80-120	73-127	4	0-20	
1,2,4-Trichlorobenzene	88	91	80-120	73-127	3	0-20	
1,1,1-Trichloroethane	112	111	80-120	73-127	1	0-20	
1,1,2-Trichloroethane	95	97	80-120	73-127	2	0-20	
Trichloroethene	98	100	87-111	83-115	2	0-7	
Trichlorofluoromethane	101	99	80-120	73-127	2	0-20	
1,2,3-Trichloropropane	91	94	80-120	73-127	3	0-20	
1,2,4-Trimethylbenzene	92	93	80-120	73-127	1	0-20	
1,3,5-Trimethylbenzene	96	97	80-120	73-127	1	0-20	
Vinyl Acetate	98	98	80-120	73-127	0	0-20	
Vinyl Chloride	79	75	72-126	63-135	5	0-10	
p/m-Xylene	98	98	80-120	73-127	0	0-20	
o-Xylene	101	102	80-120	73-127	1	0-20	
Methyl-t-Butyl Ether (MTBE)	98	101	75-129	66-138	3	0-13	
Tert-Butyl Alcohol (TBA)	82	86	66-126	56-136	5	0-24	
Diisopropyl Ether (DIPE)	79	81	77-125	69-133	3	0-13	
Ethyl-t-Butyl Ether (ETBE)	88	89	72-132	62-142	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	103	77-125	69-133	3	0-10	

Total number of LCS compounds : 66
Total number of ME compounds : 0
Total number of ME compounds allowed : 3
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

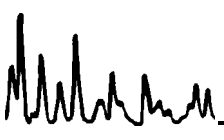
Glossary of Terms and Qualifiers

Work Order Number: 08-12-0612

Qualifier	Definition
AX	Sample too dilute to quantify surrogate.
BA	There was no MS/MSD analyzed with this batch due to insufficient sample volume (NR = not reported). See Blank Spike/Blank Spike Duplicate.
BA,AY	Relative percent difference out of control, matrix interference suspected.
BB	Sample > 4x spike concentration.
BF	Reporting limits raised due to high hydrocarbon background.
BH	Reporting limits raised due to high level of non-target analytes.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
BY	Sample received at improper temperature.
CL	Initial analysis within holding time but required dilution.
CQ	Analyte concentration greater than 10 times the blank concentration.
CU	Surrogate concentration diluted to not detectable during analysis.
DF	Reporting limits elevated due to matrix interferences.
ET	Sample was extracted past end of recommended max. holding time.
EY	Result exceeds normal dynamic range; reported as a min est.
GS	Internal standard recovery is outside method recovery limit.
IB	CCV recovery abovelimit; analyte not detected.
IH	Calibrtn. verif. recov. below method CL for this analyte.
IJ	Calibrtn. verif. recov. above method CL for this analyte.
J,DX	J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.
LA	Confirmatory analysis was past holding time.
LG	Surrogate recovery below the acceptance limit.
LH	Surrogate recovery above the acceptance limit.
LM,AY	MS and/or MSD above acceptance limits. See Blank Spike (LCS). Matrix interfence suspected.
LN,AY	MS and/or MSD below acceptance limits. See Blank Spike (LCS). Matrix interfence suspected.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.

Work Order Number: 08-12-0612

Qualifier	Definition
MB	Analyte present in the method blank.
MG	Analyte is a suspected lab contaminate.
PC	Sample taken from VOA vial with air bubble > 6mm diameter.
PI	Primary and confirm results varied by > than 40% RPD.
RB	RPD exceeded method control limit; % recoveries within limits.



Atlantic Richfield Company
bp
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173124

08-12-0612

Page 1 of 2

Chain of Custody Record

Project Name: ~~BP~~ Arco Station 374
BP BU/AR Region/Enfos Segment: Alameda Portfolio
State or Lead Regulatory Agency: Alameda County Health
Requested Due Date (mm/dd/yy): 12-8-08

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

Lab Name: Cal Science	BP/AR Facility No.: 374	Consultant/Contractor: Stratus Environmental, Inc.
Address: 7440 Lincoln Way, Garden Grove, CA 92841	BP/AR Facility Address: 6401 Telegraph Avenue, Oakland	Address: 3330 Cameron Park Dr., #550, Cameron Park, CA 95682
Lab PM:	Site Lat/Long:	
Tele/Fax:	California Global ID No.: T0600100106	Consultant/Contractor Project No.: E-374
BP/AR EBM: Paul Supple	Enfos Project No.: GOC21-0027	Consultant/Contractor PM: J. Johnson
Address:	Provision of OOC (circle one)	Tele/Fax: 530-676-6004
	Phase/WBS: Compliance	Report Type & QC Level: Level 1 w/ EDF
Tele/Fax: 925-275-3801	Sub Phase/Task: ~~4~~ analytical cost	E-mail EDD To:
	Cost Element: contractor labor	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO/BTEX	Requested Analysis: 5Ox4's	Requested Analysis: 2 Hvocs	Requested Analysis: 1,2-DCA	Requested Analysis: EDB	Requested Analysis: total lead	Sample Point Lat/Long and Comments
1	PL1-3'	11:57	12-4	✓				1	✓					✓	✓	✓	✓	✓	✓	48 hour TAT
2	D1-2.5'	12:04		↓				↓	↓					↓	↓	↓	↓	↓	↓	
3	D2-2.5'	12:10		↓				↓	↓					↓	↓	↓	↓	↓	↓	
4	D3-2.5'	12:20		↓				↓	↓					↓	↓	↓	↓	↓	↓	
5	Soil work composite 1	11:45		↓				↓	↓					↓	↓	↓	↓	↓	↓	
6	D4-2.5'	12:30		↓				↓	↓					↓	↓	↓	↓	↓	↓	
7	PL2-3'	12:35		↓				↓	↓					↓	↓	↓	↓	↓	↓	
8	PL3-3'	12:40		↓				↓	↓					↓	↓	↓	↓	↓	↓	
9	D6-2.5'	12:47		↓				↓	↓					↓	↓	↓	↓	↓	↓	
10	PL5-3'	12:53	↓	↓				↓	↓					↓	↓	↓	↓	↓	↓	

Sampler's Name: Scott Bittinger	**Relinquished By / Affiliation**	**Date**	**Time**	**Accepted By / Affiliation** / **Date** / **Time**
Sampler's Company: Stratus Environmental, Inc.	Scott Bittinger			
Shipment Date: 12-4-08				
Shipment Method: Fed Ex				
Shipment Tracking No: 851353494124	Fedex	12/5/08	10:00	Danny Le CEL / 12/5/08 / 10:00

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Laboratory

BP COC Rev. 5 10/11/2006

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Chain of Custody Record

173136

0612

Project Name: ARCO Station 374
BP BU/AR Region/Enfos Segment: Alameda Oakland
State or Lead Regulatory Agency: Alameda County Health
Requested Due Date (mm/dd/yy): 12-8-08

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

Lab Name: Cal Science	BP/AR Facility No.: 374	Consultant/Contractor: Stratus Environmental, Inc.
Address: 7440 Lincoln Way Garden Grove	BP/AR Facility Address: 6407 Telegraph Ave, Oakland	Address: 3330 Cameron Park Dr. #550 Cameron Park, CA 95682
Lab PM:	Site Lat/Long:	
Tele/Fax:	California Global ID No.: T0600100106	Consultant/Contractor Project No.: F-374
BP/AR EBM: Paul Supple	Enfos Project No.: GOC 21-0027	Consultant/Contractor PM: J. Johnson
Address:	Provision of OOC (circle one)	Tele/Fax:
	Phase/WBS: Compliance	Report Type & QC Level: Level 1 w/ EDF
Tele/Fax: 925-275-3801	Sub Phase/Task: analytical svc	E-mail EDD To:
	Cost Element: Contractor Labor	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO/BTEX	Requested Analysis: Soxy's	Requested Analysis: ethanol	Requested Analysis: 1,2-DCA	Requested Analysis: EDB	Requested Analysis: total	Sample Point Lat/Long and Comments
11	DS-2S1	12:56	12-4	✓				1	✓					✓	✓	✓	✓	✓	✓	48 hour TAT
12	PL4-31	13:02	12-4	✓				1	✓					✓	✓	✓	✓	✓	✓	
13	Soil waste composite 2	13:15	12-4	✓				4	✓					✓	✓	✓	✓	✓	✓	
14																				
15																				
16																				
7																				
8																				
9																				
10																				

Sampler's Name: Scott Fitting	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Stratus Environmental, Inc.	Scott Fitting					
Shipment Date: 12-4-08						
Shipment Method: FedEx	FedEx	12/5/08	10:00	Dannyle CEL	12/5/08	10:00
Shipment Tracking No: 851353494124						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Laboratory

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-12-0612

SAMPLE RECEIPT FORM

Cooler 1 **of** 1

CLIENT: Stratus - Atlantic **DATE:** 12/05/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 5.1 °C - 0.2 °C (CF) = 4.9 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** DL

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** DL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** W.S.C

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on sample label(s)	☐	☐	☑
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☐1AGB ☐$1AGBna_2$ ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Checked/Labeled by:** W.S.C

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle **Reviewed by:** DL

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH **Scanned by:** W.S.C

12/08/2008 11:03


WINDOW COVERINGS
DECORATIVE
12/08/2008 10:58