#### **RECEIVED**

1:24 pm, Jun 29, 2007

Alameda County Environmental Health



P: 925.969.0750 F: 925.969.0751 www.errg.net

June 13, 2007 Ref.: 27-060

Mr. Barnie M. Chan Hazardous Materials Specialist Alameda County Health Care Services Agency Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94520-9335

Field Summary Report
408 Linda Avenue, Piedmont, California
ACHCSAToxics Case RO0002899

#### Dear Mr. Chan:

In November 2006, P&D Environmental submitted to you a report for review; the report, dated October 12, 2006, documented the results of soil samples collected at 408 Linda Avenue, Piedmont, California during a due diligence investigation for buyers potentially interested in purchasing the property. On December 19, 2006 you issued a letter to Pacific Gas and Electric Company (PG&E) that concurred with the recommendation by P&D Environmental "to remove petroleum-impacted soils in the location of trench T3 and take a confirmation sample prior to site development." You also indicated in that letter that if the efforts to remove that soil were successful that your office could issue "a no further action letter for unrestricted use."

PG&E requested the assistance of Parsons Commercial Technology Group, Inc. (Parsons) and Engineering/Remediation Resources Group, Inc. (ERRG) to excavate and dispose of soils at 408 Linda Avenue from which sample T3 had been collected. Included with this cover letter is a summary report that documents the removal effort and the analytical results of soil samples collected and chemically analyzed to confirm that sufficient soils had been removed and that the concentrations of petroleum hydrocarbons remaining in the soil are less 500 milligrams per kilogram (mg/kg), the Environmental Screening Level (ESL) published by the San Francisco Bay Region of the California Regional Water Quality Control Board (RWQCB) (RWQCB, 2005).

As documented in the enclosed report, ERRG excavated approximately 7 cubic yards of soil from the "location of T3." The soils were excavated by hand in an area approximately 20 feet long, 2.5 feet wide, and 4 feet deep. A confirmation sample was collected from the base of the trench. Total petroleum hydrocarbons quantified as motor oil (TPH-mo) were detected in the confirmation sample at a concentration of 61 mg/kg. The excavation was backfilled with soil imported from a local quarry, and the surface was restored to original grade.

Mr. Barnie Chan, ACHCSA June 13, 2007 Page 2



The concentration of TPH-mo is much less than the Regional Water Quality Control Board's Environmental Screening level (ESL) of 500 mg/kg for residential soil. PG&E, therefore, respectfully requests that ACHCSA issue "a no further action letter for unrestricted use" for the TPH issue at 408 Linda Avenue, Piedmont, CA.

We thank you in advance for your assistance. If you have any questions or need additional information about the work done at 408 Linda Avenue, Piedmont, CA, please call me at (925) 969-0750 or Sally Goodin at (510) 301-2261.

Sincerely,

Terry R. Winsor, P.G. Senior Project Manager

Enc. Summary Report

cc Ms. Sally Goodin
Pacific Gas and Electric Company
Environmental Services Site Remediation
77 Beale Street, Mail Code B24A
San Francisco, California 94105

P: 925.969.0750 F: 925.969.0751 www.errg.net

June 12, 2007 Ref.: 27-060

Ms. Sally Goodin, P.G.
Pacific Gas and Electric Company
Environmental Services, Site Remediation
77 Beale Street, Mail Code B24A
San Francisco, California 94105

#### 408 Linda Avenue, Piedmont, California Field Summary Report

#### Dear Ms. Goodin:

As requested by Pacific Gas and Electric Company (PG&E), Engineering/Remediation Resources Group, Inc. (ERRG) assisted Parsons Commercial Technology Group, Inc. (Parsons), with the excavation of soils at 408 Linda Avenue, Piedmont, CA (Figure 1). PG&E requested that Parsons and ERRG excavate soil in which residual petroleum hydrocarbons had been identified in earlier due diligence investigations. The following summary report documents the excavation and analytical results of soil samples collected and chemically analyzed to confirm the levels of petroleum hydrocarbons that remain in the soils and to characterize the excavated soil for disposal.

#### Background

During a due diligence investigation of the property in July 2006, P&D Environmental (P&D) collected three soil samples from a location T3 near the southeast corner of the building, between the sidewalk and the building (see Figure 2). The samples were collected to reassess the soils in an area where polychlorinated biphenyls (PCBs) had been detected in soil samples collected when a sink and drain had been removed from the building in 2000 (0.91 milligrams per kilogram (mg/kg)). PCBs were detected in the sample T-3 collected 2.5 feet below ground surface at a concentration of 0.27 mg/kg, but total petroleum hydrocarbons as motor oil (TPH-mo) were identified as the compound of potential concern at concentrations of 5,500 mg/kg, 150 mg/kg, and 230 mg/kg in samples collected 2.5 feet, 3.5 feet, and 5.5 feet below ground surface, respectively, at location T3. In a letter report dated October 12, 2006, P&D reported these data to the Alameda County Environmental Health Services (ACEHS) and recommended that soils near location T3 be excavated. In a letter dated December 19, 2006, ACEHS concurred with the recommendation by P&D "to remove petroleum-impacted soils in the location of trench T3 and take a confirmation sample prior to site development." Consistent with the recommendation by P&D "to remove petroleum-impacted soils in the location of T3," ERRG completed the work as described below at 408 Linda Avenue, Piedmont, CA.

#### **Current Work**

ERRG mobilized to 408 Linda Avenue, Piedmont, CA on April 4, 2007, following notification of Underground Service Alert (USA) on April 2, 2007; USA issued ticket number 112711 for the

Ms. Sally Goodin Pacific Gas and Electric Company June 12, 2007 Page 2 of 6



excavation area. Prior to any intrusive activities, Precision Locating, a private utility locating service, surveyed the proposed excavation area on April 4, 2007 to clear it of underground utilities. Precision Locating identified several sewer and roof drains and water lines that required doing most of the excavation by hand (Figures 3 and 4). After removing three shrubs, ERRG excavated approximately seven cubic yards of soil from the area between the sidewalk and the building, extending from the southeast corner of the building approximately 20 feet north, as shown in Figure 3. The excavation extended down beneath the drain lines, approximately 4 feet below ground surface (Figure 4, photographs). ERRG collected and submitted two soil samples to Severn Trent Laboratories (STL) located in Pleasanton, California. Sample 408 SubE W0001-040407 (W001) was collected to supplement chemical data provided by P&D and to characterize the soil according to requirements of the disposal facility, Allied Waste Forward Landfill (waste profiling). Sample 408 SubE C0002-040407 (C002) was collected from clay/silt soil at the bottom of the excavation to confirm that sufficient soils had been removed and that the levels of residual fuels or TPH-mo were less than 500 mg/kg, the Environmental Screening Level (ESL) published in 2005 by the San Francisco Bay Region of the California Regional Water Quality Control Board (RWQCB) and identified by ACEHS as the cleanup goal for this project. The analytical results are presented in the table below, and copies of the laboratory analytical report are attached as Attachment A of this letter report.

Sample #	Concentration of motor oil range organics (C24-C36) (TPH-mo)	STLC Citrate Lead (CA Wet Citrate)
408 SubE W0001-40407 (W001)		0.67 mg/L
408 SubE C0002-040407 (C002)	61 mg/kg	

After confirming that the concentration of TPH-mo in sample C002 was less than the goal of 500 mg/kg, ERRG imported fill from Dumbarton Quarry Associates Curtner Quarry in Milpitas, California. Curtner Quarry provided analytical results for the imported fill; a copy of those results is provided as Attachment B. ERRG commenced backfilling on April 6, 2007. Import material was placed in 12-inch lifts and compacted to an approximate relative dry density of 90%, to ensure that no voids remained in the backfill. The surface of the excavation was graded to match original conditions.

ERRG removed all project-related equipment, materials and debris, and demobilized late on April 6, 2007.

ERRG placed the excavated soil in a soil bin that was provided by DenBeste Trucking and in which it was transported to Forward Landfill in Manteca, California on June 12, 2007. The soil bin was equipped with a cover that was secured with a paddle lock. ERRG worked with PG&E to profile the excavated soil as a Class II non-hazardous waste solid using historic data for petroleum hydrocarbons; however, Allied Waste required that a soil be analyzed for soluble lead using CA Wet Citrate. The concentration of soluble lead as presented in the table above was 0.67 mg/L, much less than the Soluble Threshold Limit Concentration for lead of 5 mg/L. A copy of the Non-Hazardous Waste Manifest (Waste Acceptance No. 7135) is attached to this

Ms. Sally Goodin Pacific Gas and Electric Company June 12, 2007 Page 3 of 6



report at Attachment C; a copy of the weigh bill will be forwarded to you after it is sent to us by the landfill.

It has been a pleasure to assist PG&E and Parsons on this project. If you have any questions or need additional information about the work done at 408 Linda Avenue. Piedmont, CA, please call either me or Terry Winsor at (925) 969-0750.

Sincerely,

Chris Mai

Project Manager

Senior Project Manager

Enc. Attachment A Copies of STL analytical laboratory reports

Attachment B Copy of the analytical laboratory report provided by Curtner Quarry

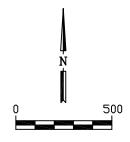
Attachment C Non-Hazardous Waste Manifest #7135

cc Mr. Rowland Keith
Principal Scientist
Parsons Commercial Tech

Parsons Commercial Technology Group, Inc.

2121 North California Blvd, Suite 500

Walnut Creek, California 94596



APPROXIMATE SCALE IN YARDS



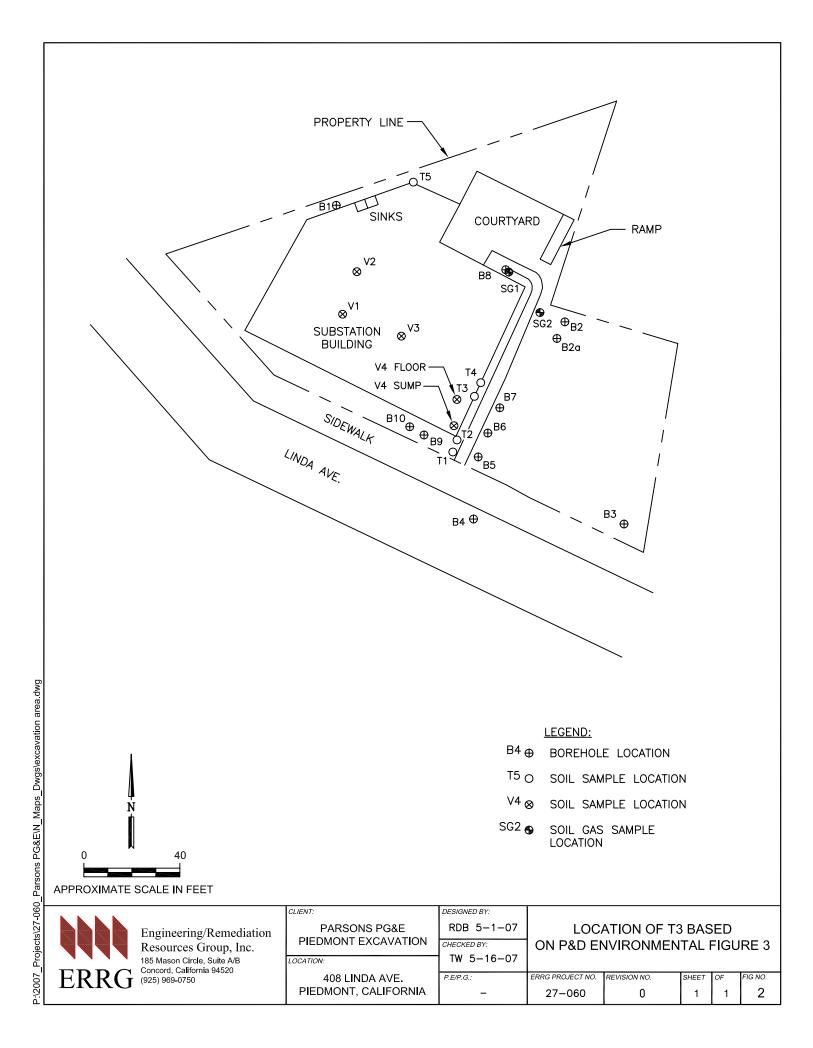
CLIENT:	_
PARSONS PG&E PIEDMONT EXCAVATION	

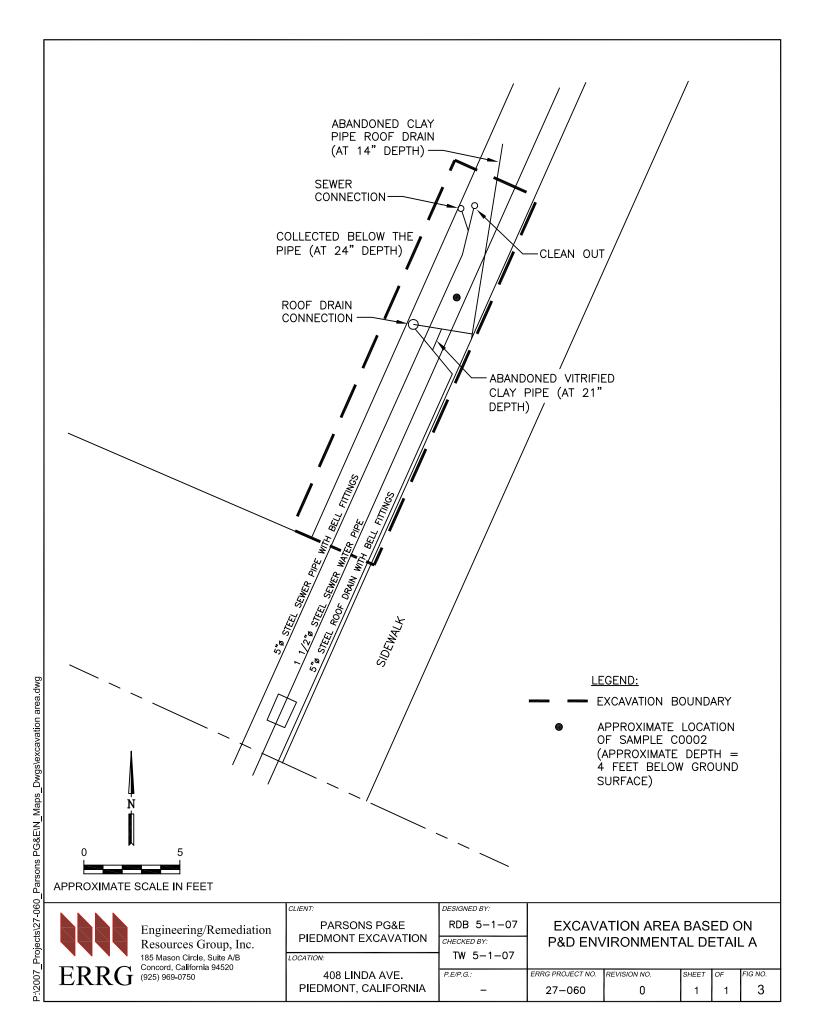
LOCATION:

408 LINDA AVE.
PIEDMONT, CALIFORNIA

	⊢
TW 5-1-07	
CHECKED BY:	
RDB 5-1-07	
DESIGNED BY:	

CHECKED BY:	SITE LOCATION MAP				
TW 5-1-07					
P.E/P.G.:	ERRG PROJECT NO.	REVISION NO.	SHEET	OF	FIG NO.
ı	27-060	0	1	1	1







Parsons – Piedmont: Photo 01 – Removal of Soil in Progress, 408 Linda Avenue,

Piedmont, CA., April 4, 2007.

**Photographed by:** S. Cruthers-Knight



Parsons – Piedmont: Photo 02 – Soil Removed, April 5, 2007, 408 Linda Avenue,

Piedmont, CA.

Photographed by: T. R. Winsor





Parsons – Piedmont: Photo 03 – Removal Complete, April 5, 2007, 408 Linda Avenue,

Piedmont, CA

Photographed by: T. R. Winsor



Parsons – Piedmont: Photo 04 – Removal Complete, 408 Linda Avenue, Piedmont, CA.

Photographed by: T. R. Winsor





## **Attachment 1. STL Analytical Laboratory Reports**



#### **ANALYTICAL REPORT**

Job Number: 720-8512-1

Job Description: Parsons PGE Piedmont Excavation

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Mr. Chris Mai

Dimple Sharma

Mhar

Project Manager I dsharma@stl-inc.com

04/05/2007

Project Manager: Dimple Sharma

#### **EXECUTIVE SUMMARY - Detections**

Client: ERRG Job Number: 720-8512-1

Lab Sample ID	Client Sample ID		Reporting			
Analyte		Result / Qualifier	Limit	Units	Method	
720-8512-2	408-SUBE-C002-040	407				
Motor Oil Range Or	ganics [C24-C36]	61	50	mg/Kg	8015B	

#### **METHOD SUMMARY**

Client: ERRG Job Number: 720-8512-1

Description	<b>Lab Location</b>	Method	<b>Preparation Method</b>
Matrix: Solid			
Nonhalogenated Organics using GC/FID -Modified (Diesel	STL SF	SW846 8015E	3
Range Organics) Ultrasonic Extraction	STL SF		SW846 3550B

#### LAB REFERENCES:

STL SF = STL San Francisco

#### **METHOD REFERENCES:**

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **SAMPLE SUMMARY**

Client: ERRG Job Number: 720-8512-1

		011 1 1 1 1 1	Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-8512-2	408-SubE-C002-040407	Solid	04/04/2007 1335	04/04/2007 1448

#### **Analytical Data**

Client: ERRG Job Number: 720-8512-1

Client Sample ID: 408-SubE-C002-040407

 Lab Sample ID:
 720-8512-2
 Date Sampled:
 04/04/2007 1335

 Client Matrix:
 Solid
 Date Received:
 04/04/2007 1448

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B Analysis Batch: 720-20123 Instrument ID: HP DRO5

Preparation: 3550B Prep Batch: 720-20026 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.05 g
Date Analyzed: 04/05/2007 0459 Final Weight/Volume: 5 mL

Date Prepared: 04/04/2007 0842 Injection Volume:

Column ID: PRIMARY

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Motor Oil Range Organics [C24-C36] 61 50

Surrogate %Rec Acceptance Limits

o-Terphenyl 69 50 - 130

#### **DATA REPORTING QUALIFIERS**

Lab Section Qualifier Description

Client: ERRG Job Number: 720-8512-1

#### **QC Association Summary**

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-20026					
LCS 720-20026/2-AA	Lab Control Spike	Т	Solid	3550B	
LCSD 720-20026/3-AA	Lab Control Spike Duplicate	Т	Solid	3550B	
MB 720-20026/1-AA	Method Blank	Т	Solid	3550B	
720-8512-2	408-SubE-C002-040407	Т	Solid	3550B	
Analysis Batch:720-201	23				
LCS 720-20026/2-AA	Lab Control Spike	Т	Solid	8015B	720-20026
LCSD 720-20026/3-AA	Lab Control Spike Duplicate	Т	Solid	8015B	720-20026
MB 720-20026/1-AA	Method Blank	Т	Solid	8015B	720-20026
720-8512-2	408-SubE-C002-040407	Т	Solid	8015B	720-20026

#### Report Basis

T = Total

RL

Client: ERRG Job Number: 720-8512-1

Method Blank - Batch: 720-20026 Method: 8015B Preparation: 3550B

Lab Sample ID: MB 720-20026/1-AA Analysis Batch: 720-20123 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-20026 Lab File ID: N/A

Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 30.16 g Date Analyzed: 04/05/2007 1459 Final Weight/Volume: 5 mL

Date Prepared: 04/04/2007 0842 Injection Volume:

Column ID: **PRIMARY** 

Result

Diesel Range Organics [C10-C28] ND 0.99 Motor Oil Range Organics [C24-C36] ND 50

Qual

Surrogate % Rec Acceptance Limits

o-Terphenyl 84 50 - 130

Lab Control Spike/ Method: 8015B Lab Control Spike Duplicate Recovery Report - Batch: 720-20026 Preparation: 3550B

LCS Lab Sample ID: LCS 720-20026/2-AA Analysis Batch: 720-20123 Instrument ID: HP DRO5

Client Matrix: Prep Batch: 720-20026 Solid Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume:

30.27 g Date Analyzed: 04/05/2007 1244 Final Weight/Volume: 5 mL

Date Prepared: 04/04/2007 0842 Injection Volume: Column ID: **PRIMARY** 

LCSD Lab Sample ID: LCSD 720-20026/3-AA Analysis Batch: 720-20123 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-20026 Lab File ID: N/A

Initial Weight/Volume: 30.23 g Dilution: 1.0 Units: mg/Kg Date Analyzed: 04/05/2007 1311 Final Weight/Volume: 5 mL

Date Prepared: 04/04/2007 0842 Injection Volume:

Column ID: **PRIMARY** 

% Rec. LCS **RPD** Analyte LCSD Limit RPD Limit LCS Qual LCSD Qual Diesel Range Organics [C10-C28] 82 80 50 - 130 2 30 Surrogate LCS % Rec LCSD % Rec Acceptance Limits

79 o-Terphenyl 80 50 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Analyte

				1
I	$\mathbf{E}$	R	R	G

Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A

Concord, CA 94520

Phone: (925) 969-0750 Fax: (925) 969-0751 720-8512

Page 1 <u>of 1</u>

104835 Project Contact (Hardcopy or PDF To): Chain-of-Custody Record and Analysis Request ¢hris Mai Laboratory / Address: Electronic Deliverables To (Email Address): **Analysis Request** TAT STL cmai@errg.net Phone No.: Fax No.: 12 hr/ 24 hr/ 48 hr/ 72 hr/STD (1 wk) Sampler: 925-969-0750 925-969-0751 Project Number: Phase # / Task # 27-060 .01.01 Project Name: **Project Address:** Parsons PGE Piedmont Excavation Number of Containers 408 Linda Ave, Pie Project Manager: Sampling Container Matrix Only For Lab Use Comments Sample STLC - Pb TPH - mo TTLC - Pb Designation solid Date Time 408-SubE-W001-040407 4/4/07 1330 Χ X 48hr 408-SubE-C002-040407 4/4/07 1355 Х X 24hr 1 RUSH Refinquished by: Date Time Received by: Remarks: U/4/07 1448 RUSH Relinquished by: Date Time Received by: Engineering / Remediation Resources Group, Inc. Relinquished by: Time Received by Laboratory: STCSF-1448 Joun Mule Cn Bill to: 185 Mason Circle, Suite A Concord, CA 94520

#### LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-8512-1

Login Number: 8512

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



#### **ANALYTICAL REPORT**

Job Number: 720-8512-2

Job Description: Parsons PGE Piedmont Excavation

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Mr. Chris Mai

Dimple Sharma

Mhar

Project Manager I dsharma@stl-inc.com

04/06/2007

Project Manager: Dimple Sharma

#### **EXECUTIVE SUMMARY - Detections**

Client: ERRG Job Number: 720-8512-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-8512-1	408-SUBE-W001-040	0407			
STLC Citrate Lead		0.67	0.50	mg/L	6010B

#### **METHOD SUMMARY**

Client: ERRG Job Number: 720-8512-2

Description		Lab Location	Method	Preparation Method			
Matrix:	Solid						
Inductively	y Coupled Plasma - Atomic Emission Spectrometry	STL SF	SW846 6010E	3			
	Acid Digestion of Waters for Total Recoverable or California WET Citrate Leach	STL SF STL SF		SW846 3005A CA-WET CA WET Citrate			

#### LAB REFERENCES:

STL SF = STL San Francisco

#### **METHOD REFERENCES:**

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **SAMPLE SUMMARY**

Client: ERRG Job Number: 720-8512-2

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-8512-1	408-SubE-W001-040407	Solid	04/04/2007 1330	04/04/2007 1448

#### **Analytical Data**

Client: ERRG Job Number: 720-8512-2

Client Sample ID: 408-SubE-W001-040407

 Lab Sample ID:
 720-8512-1
 Date Sampled:
 04/04/2007 1330

 Client Matrix:
 Solid
 Date Received:
 04/04/2007 1448

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-20177 Instrument ID: Varian ICP

Preparation:3005APrep Batch: 720-20165Lab File ID:N/ADilution:1.0Leachate Batch: 720-20060Initial Weight/Volume:5 mLDate Analyzed:04/06/2007 1651Final Weight/Volume:50 mL

Date Prepared: 04/06/2007 1440 Date Leached: 04/04/2007 1530

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 0.67 0.50

#### **DATA REPORTING QUALIFIERS**

Lab Section Qualifier Description

Client: ERRG Job Number: 720-8512-2

#### **QC Association Summary**

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-20060					
720-8512-1	408-SubE-W001-040407	С	Solid	CA WET Citrate	
Prep Batch: 720-20165					
LCS 720-20165/2-AA	Lab Control Spike	R	Solid	3005A	
LCSD 720-20165/3-AA	Lab Control Spike Duplicate	R	Solid	3005A	
MB 720-20165/1-AA	Method Blank	R	Solid	3005A	
720-8512-1MS	Matrix Spike	С	Solid	3005A	
720-8512-1MSD	Matrix Spike Duplicate	С	Solid	3005A	
720-8512-1	408-SubE-W001-040407	С	Solid	3005A	720-20060
Analysis Batch:720-201	77				
LCS 720-20165/2-AA	Lab Control Spike	R	Solid	6010B	720-20165
LCSD 720-20165/3-AA	Lab Control Spike Duplicate	R	Solid	6010B	720-20165
MB 720-20165/1-AA	Method Blank	R	Solid	6010B	720-20165
720-8512-1	408-SubE-W001-040407	С	Solid	6010B	720-20165
720-8512-1MS	Matrix Spike	С	Solid	6010B	720-20165
720-8512-1MSD	Matrix Spike Duplicate	С	Solid	6010B	720-20165

#### Report Basis

C = STLC Citrate

R = Total Recoverable

Client: ERRG Job Number: 720-8512-2

Method Blank - Batch: 720-20165

Method: 6010B Preparation: 3005A Total Recoverable

Lab Sample ID: MB 720-20165/1-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 04/06/2007 1640 Date Prepared: 04/06/2007 1440 Analysis Batch: 720-20177 Prep Batch: 720-20165

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-20165

Method: 6010B Preparation: 3005A Total Recoverable

LCS Lab Sample ID: LCS 720-20165/2-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 04/06/2007 1644 Date Prepared: 04/06/2007 1440

Prep Batch: 720-20165

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-20165/3-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 04/06/2007 1647 Date Prepared: 04/06/2007 1440 Analysis Batch: 720-20177 Prep Batch: 720-20165

Analysis Batch: 720-20177

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
Lead	100	100	80 - 120	1	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-8512-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-20165

Method: 6010B Preparation: 3005A

**STLC Citrate** 

MS Lab Sample ID: Client Matrix:

720-8512-1 Solid

Analysis Batch: 720-20177

Instrument ID: Varian ICP

Dilution:

1.0

Prep Batch: 720-20165

Lab File ID: N/A Initial Weight/Volume: 5 mL

Date Analyzed: Date Prepared: 04/06/2007 1654 04/06/2007 1440

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-8512-1

Client Matrix: Solid 1.0

Analysis Batch: 720-20177 Prep Batch: 720-20165

Instrument ID: Varian ICP Lab File ID: N/A

Dilution:

Date Analyzed: 04/06/2007 1658 Date Prepared: 04/06/2007 1440 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	95	95	80 - 120	0	20	

I	E	R	R	<u>C</u>

Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A

Concord, CA 94520

720-8512 Phone: (925) 969-0750 Fax: (925) 969-0751

∟ab No.	Page 1 <u>of 1</u>
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<sup>P</sup> roject Contact (Ha	rdcopy or Pl	DE Tol:										_									_			04835	<u> </u>
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Laboratory / Addres	ss:		1	tronic [	Delivera	bles T	o (Em		ddres					A	Anal	ysis	s Re	que	est			TAT			
Phone No.: 925-969-0750 Project Number:	Fax No.: 925-969		Sam	pler :	<u>C</u>	mai@	errg.	<u>net</u>	<del></del> .			1										(1 wk)			
27-060 Project Name:	Phase # / .01.01		Proje	ct Add																		hr/STD (			
Parsons PGE Piedmo	ont Excavation	on		08 Linda		<sup>o</sup> ie							1		1							72 h	S.		
P≀oject Manager:		San	pling	1		Conta	iner			М	atrix											48 hr/ 7	ntaine		Only
Sample												۾		Pb								24 hr/ 4	r of Cc	nts	Use
Designation		Date	Time		ļ				ŀ	solid		STLC - Pb	TPH - mo	TTLC - F								12 hr/ 2	Number of Containers	Comments	For Lab
408-SubE-W001-040	0407	4/4/07	1339	_	_	++	+-		+-	$\vdash$	+	$\frac{1}{x}$	╫	-			-			_	ValW	<del>/                                    </del>		Ö	ı <u>ı</u>
108-SubE-C002-040	407	4/4/07	1335	+	+-	++	+		+-	x	+	+^	X	-	<u> </u>						12	48Hr	1		
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	-			<u> </u>		$\prod$																			
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				}_	<del>                                     </del>	++	+	-		H	+	-					_								
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elinquished by:	7		Date	Time	Recei	ved by	:																		
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			4/4/67	1448	Receiv	vea by	Labo	ratory	y:	sto Cm	251	7	Bill to		Engi 185 I Cond	Maso	n Cir	cle,	Suite		Reso	urces G	roup, In	c.	

#### LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-8512-2

Login Number: 8512

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



# Attachment 2. Analytical Laboratory Report provided by Curtner Quarry



#### ANALYTICAL REPORT

Job Number: 720-2983-1

Job Description: Haven Ave

For:
Pacific States Environmental
PO BOX 11357
Pleasanton, CA 94588

Attention: Mr. Jon Ruff

Quary Enes From Cowtreer Quary

Similar Side

Surinder Sidhu Project Manager I ssidhu@stl-inc.com 04/14/2006

Project Manager: Surinder Sidhu

Job # 606105

Date 47/14/06
To Company 55E
From Company 31L
Category 62002

Distribute to

#### **METHOD SUMMARY**

Client: Pacific States Environmental

Job Number: 720-2983-1

Matrix: Solid	
Volatile Organic Compounds by GC/MS STL-SF SW846 8260B	
Purge and Trap for Solids STL-SF SV	/846 5030B .
Volatile Organic Compounds by GC/MS (Low Level) STL-SF SW846 8260B	
Purge and Trap for Solids STL-SF SV	/846 5030B
Semivolatile Compounds by Gas Chromatography/Mass STL-SF SW846 8270C Spectrometry (GC/MS)	
1	/846 3550B
Nonhalogenated Organics using GC/FID -Modified (Diesel STL-SF SW846 8015B Range Organics)	
	/846 3550B
Silica Gel Cleanup STL-SF SV	/846 3630C
Organochlorine Pesticides by Gas Chromatography STL-SF SW846 8081A	
Ultrasonic Extraction STL-SF SV	/846 3550B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography STL-SF SW846 8082	
Ultrasonic Extraction STL-SF SW	/846 3550B

#### LAB REFERENCES:

STL-SF = STL-San Francisco

#### **METHOD REFERENCES:**

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### SAMPLE SUMMARY

Client: Pacific States Environmental

Job Number: 720-2983-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-2983-1	606105-CQ-F-01	Solid	03/29/2006 0000	03/30/2006 0000

Client: Pacific States Environmental

Job Number: 720-2983-1

Client Sample ID:

606105-CQ-F-01

Lab Sample ID:

720-2983-1

Client Matrix:

Solid

Date Sampled:

03/29/2006 0000

Date Received:

03/30/2006 0000

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 720-7425

Instrument ID:

Saturn 3900B

Preparation:

5030B

Lab File ID:

c:\saturnws\data\200604\04

Dilution:

1.0

Initial Weight/Volume:

5.06 g

Date Analyzed: Date Prepared:

04/06/2006 1439 04/06/2006 1439 Final Weight/Volume:

10 mL

Analyte

DryWt Corrected: N

Result (mg/Kg)

Qualifier

RL

Gasoline Range Organics (GRO)-C5-C12

ND'

0.99

Surrogate

%Rec 91

70 - 130

Acceptance Limits

Toluene-d8 1,2-Dichloroethane-d4

96

60 - 140

Client: Pacific States Environmental

Job Number: 720-2983-1

Client Sample ID:

606105-CQ-F-01

Lab Sample ID:

720-2983-1

Client Matrix:

Solid

Date Sampled:

03/29/2006 0000

Date Received:

03/30/2006 0000

#### 8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: Preparation: 8260B 5030B Analysis Batch: 720-7445

Instrument ID:

Latest Chemstation

Dilution:

1.0

Lab File ID: Initial Weight/Volume:

040606011.D 5.05 g

Date Analyzed:

04/06/2006 1518

Final Weight/Volume:

10 mL

Date Prepared:

04/06/2006 1518

Methyl tert-butyl ether Acetone Benzene Dichlorobromomethane Bromobenzene Chlorobromomethane Bromoform Bromomethane Methyl Ethyl Ketone n-Butylbenzene	ND N	5.0 50 5.0 5.0 5.0 20 5.0 9.9
Benzene Dichlorobromomethane Bromobenzene Chlorobromomethane Bromoform Bromomethane Methyl Ethyl Ketone	ND N	5.0 5.0 5.0 20 5.0 9.9 50
Dichlorobromomethane Bromobenzene Chlorobromomethane Bromoform Bromomethane Methyl Ethyl Ketone	ND ND ND ND ND ND ND	5.0 5.0 20 5.0 9.9 50
Bromobenzene Chlorobromomethane Bromoform Bromomethane Methyl Ethyl Ketone	ND ND ND ND ND ND	5.0 20 5.0 9.9 50
Chlorobromomethane Bromoform Bromomethane Methyl Ethyl Ketone	ND ND ND ND ND	20 5.0 9.9 50
Bromoform Bromomethane Methyl Ethyl Ketone	ND ND ND ND	5.0 9.9 50
Bromomethane Methyl Ethyl Ketone	ND ND ND	9.9 50
Methyl Ethyl Ketone	ND ND	50
	ND	
n-Butvlbenzene		
	ND	5.0
sec-Butylbenzene	ND	5.0
tert-Butylbenzene	ND	5.0
Carbon disulfide	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	9.9
Chloroform	ND	5.0
Chloromethane	ND	9,9
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
Chlorodibromomethane	ND .	5.0
1,2-Dichlorobenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,3-Dichloropropane	ND	5.0
1,1-Dichloropropene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	50
Ethylene Dibromide	ND	5.0
Dibromomethane	ND	9.9
Dichlorodifluoromethane	ND	9.9
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND ·	5.0
Ethylbenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Isopropylbenzene	ND	5.0
4-Isopropyltoluene	ND	5.0
Methylene Chloride	(12) L 1.5 ppm 10	9.9
STL San Francisco	Page 5 of 31	

Client: Pacific States Environmental

Job Number: 720-2983-1

Client Sample ID:

606105-CQ-F-01

Lab Sample ID:

720-2983-1

Client Matrix:

Solid

Date Sampled:

03/29/2006 0000

Date Received:

03/30/2006 0000

#### 8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:

8260B

Analysis Batch: 720-7445

Instrument ID:

Latest Chemstation

Preparation:

5030B

Lab File ID:

040606011.D

Dilution: Date Analyzed: 1.0

Initial Weight/Volume:

5.05 g

Date Prepared:

04/06/2006 1518 04/06/2006 1518 Final Weight/Volume:

10 mL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
methyl isobutyl ketone	, , , , , , , , , , , , , , , , , , , ,	ND	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	50
Naphthalene		ND		9,9
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND	•	5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethar	ne	ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		9.9
2,2-Dichloropropane		ND		5.0
Surrogate		%Rec		Acceptance Limits
4-Bromofluorobenzene	-	99	***************************************	60 - 140
1,2-Dichloroethane-d4	,	85		60 - 140
Toluene-d8		88		70 - 130

Client: Pacific States Environmental Job Number: 720-2983-1

Client Sample ID: 606105-CQ-F-01

Lab Sample ID: 720-2983-1

Date Sampled: 03/29/2006 0000 Client Matrix: Solid Date Received: 03/30/2006 0000

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 720-7660

Instrument ID:

Sat 2K1

Preparation:

3550B

Prep Batch: 720-7368

Lab File ID:

d:\data\200604\040906\720-

Dilution: Date Analyzed: 5.0

Initial Weight/Volume: Final Weight/Volume:

30.22 g 1 mL

Date Prepared:

04/09/2006 1458 04/06/2006 0818

Injection Volume:

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL Phenol ND 0.33 Bis(2-chloroethyl)ether ND 0.33 2-Chlorophenol ND 0.33 1,3-Dichlorobenzene ND 0.33 1,4-Dichlorobenzene ND 0.33 Benzyl alcohol ND 0.84 1,2-Dichlorobenzene ND 0.33 2-Methylphenol ND 0.33 4-Methylphenol ND 0.33 N-Nitrosodi-n-propylamine ND 0.33 Hexachloroethane ND 0.33 Nitrobenzene ND 0.33 Isophorone ND 0.33 2-Nitrophenol ND 0.33. 2,4-Dimethylphenol ND 0.33 Bis(2-chloroethoxy)methane ND 0.84 2,4-Dichlorophenol ND 0.33 1,2,4-Trichlorobenzene ND 0.33 Naphthalene ND 0.33 4-Chloroaniline ND 0.33 Hexachlorobutadiene ND 0.33 4-Chloro-3-methylphenol ND 0.84 2-Methylnaphthalene ND 0.33 Hexachlorocyclopentadiene 5 ND 0.84 2,4,6-Trichlorophenol ND 0.33 2,4,5-Trichlorophenol ND 0.33 2-Chloronaphthalene ND 0.33 2-Nitroaniline ND 1.6 Dimethyl phthalate ND 0.84 Acenaphthylene ND 0.33 3-Nitroaniline ND 0.33 Acenaphthene ND 0.33 2.4-Dinitrophenol ND 1,6 4-Nitrophenol ND 1.6 Dibenzofuran ND 0.33 2,4-Dinitrotoluene ND 0.33 2,6-Dinitrotoluene ND 0.33 Diethyl phthalate ND 0.84 4-Chlorophenyl phenyl ether ND 0.84 Fluorene ND 0.33 4-Nitroaniline ND 1.6 2-Methyl-4,6-dinitrophenol ND 1.6 N-Nitrosodiphenylamine ND 0.33

Client: Pacific States Environmental

Job Number: 720-2983-1

Client Sample ID:

606105-CQ-F-01

Lab Sample ID:

720-2983-1

Client Matrix:

Solid

Date Sampled:

03/29/2006 0000

Date Received:

03/30/2006 0000

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 720-7660

Instrument ID:

Sat 2K1

Preparation:

3550B Dilution:

Prep Batch: 720-7368

Lab File ID:

d:\data\200604\040906\720-

5.0

Initial Weight/Volume:

30.22 g

Date Analyzed: Date Prepared:

Indeno[1,2,3-cd]pyrene

Dibenz(a,h)anthracene

Benzo[g,h,i]perylene

Benzoic acid

Azobenzene

04/09/2006 1458

Final Weight/Volume:

1 mL

04/06/2006 0818

Injection Volume:

0.33

0.33

1.6

0.33

0.33

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
4-Bromophenyl phenyl ether	PERCENCIA A CONTRACTOR COMPANION CONTRACTOR CONTRACTANT OF THE PROPERTY OF THAT IS PROPERTY OF	ND	ikitikan in emikum bit melakain emikum bermitum kemulum kenakan kenakan yara kenara kumanan ya menanan ya mena	0.84
Hexachlorobenzene		ND		0.33
Pentachlorophenol		ND		1.6
Phenanthrene		ND		0.33
Anthracene		ND		0.33
Di-n-butyl phthalate		ND		0.84
Fluoranthene		ND		0.33
Pyrene		ND		0.33
Butyl benzyl phthalate		ND		0.84
3,3'-Dichlorobenzidine		ND		0.84
Benzo[a]anthracene		ND		0.33
Bis(2-ethylhexyl) phthalate		ND		1.6
Chrysene		ND		0.33
Di-n-octyl phthalate		ND		0.84
Benzo[b]fluoranthene		ND		0.33
Benzo[a]pyrene		ND		0.33
Benzo[k]fluoranthene		ND		0.33

ND

ND

ND

ND

ND

Surrogate .	%Rec	Acceptance Limits
Nitrobenzene-d5	68	23 - 120
2-Fluorobiphenyl	. 80	30 - 115
Terphenyi-d14	86	18 - 137
2-Fluorophenol	65	25 - 121
Phenol-d5	• 72	24 - 113
2,4,6-Tribromophenol	87	19 - 122

Client: Pacific States Environmental

Job Number: 720-2983-1

Client Sample ID:

606105-CQ-F-01

Lab Sample ID:

720-2983-1

Client Matrix:

Solid

Date Sampled:

03/29/2006 0000

Date Received:

03/30/2006 0000

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:

8015B

Analysis Batch: 720-7597

Instrument ID:

HP DRO5

Preparation: Dilution:

3550B

Prep Batch: 720-7369

Lab File ID:

N/A

Date Analyzed:

2.0

Initial Weight/Volume:

30.24 g 5 mL

Date Prepared:

04/10/2006 2135 04/06/2006 0821

Final Weight/Volume: Injection Volume: Column ID:

**PRIMARY** 

Analyte

DryWt Corrected: N

Result (mg/Kg) 44 0 K

Qualifier

RL 2.0

99

Diesel Range Organics [C10-C28] Motor Oil Range Organics [C24-C36]

180

500 1000

Acceptance Limits

Surrogate o-Terphenyl %Rec 77

60 - 130

Client: Pacific States Environmental

Job Number: 720-2983-1

Client Sample ID:

606105-CQ-F-01

Lab Sample ID:

720-2983-1

04/11/2006 1034

Client Matrix:

Solid

Date Sampled:

03/29/2006 0000

Date Received:

03/30/2006 0000

#### 8081A Organochlorine Pesticides by Gas Chromatography

Method:

Analysis Batch: 720-7566

Instrument ID:

Varian Pest 1

Preparation:

8081A N/A

N/A

Dilution:

5.0

Lab File ID: Initial Weight/Volume:

Date Analyzed: Date Prepared:

N/A

Final Weight/Volume: Injection Volume:

Column ID:

PRIMARY

Analyte	DryWt Corrected: N Result (ug/Kg)	Qualifier RL
Aldrin	ND	30
Dieldrin	ND	30
Endrin aldehyde	ND ND	30
Endrin	ND	30
Endrin ketone	ND	30
Heptachlor	ND	30
Heptachlor epoxide	ND	30
4,4'-DDT	ND	30
4,4'-DDE	ND	30
4,4'-DDD	ND	30
Endosulfan I	ND	30
Endosulfan II	ND	30
alpha-BHC	ND	30
beta-BHC	ND	30
gamma-BHC (Lindane)	ND	30
delta-BHC	ND	30
Endosulfan sulfate	ND	30
Methoxychlor	ND	<b>30</b> °
Toxaphene	ND	1500
Chlordane (technical)	ND	750
aipha-Chlordane	ND	30
gamma-Chlordane	ND	30
Surrogate	%Rec	Acceptance Limits

Tetrachloro-m-xylene DCB Decachlorobiphenyl

Client: Pacific States Environmental

Job Number: 720-2983-1

Client Sample ID:

606105-CQ-F-01

Lab Sample ID:

720-2983-1

Client Matrix: Solid Date Sampled:

03/29/2006 0000

Date Received:

03/30/2006 0000

8082 Polychlorinated	Biphenyls	(PCBs) b	y Gas	Chromatography

Method:

8082

Analysis Batch: 720-7414

Instrument ID:

Agilent PCB 2

Preparation: Dilution:

3550B 1.0

Prep Batch: 720-7366

Lab File ID:

N/A

Initial Weight/Volume:

30.05 g 10 mL

Date Analyzed: 04/06/2006 1559 Date Prepared: 04/06/2006 0803 Final Weight/Volume: Injection Volume:

Column ID:

**PRIMARY** 

Analyte	DryWt Corrected: N R	esult (ug/Kg)	Qualifier	RL	
PCB-1016	- Color to the Color of the Mandage Color of the Mandage of the Mandage of American	ND		50	mile presidence.
PCB-1221		ND		50	
PCB-1232		ND		50	
PCB-1242		ND		50	
PCB-1248		ND		50	
PCB-1254		ND		50	
PCB-1260		ND		50	
Surrogate	%	Rec		Acceptance Limits	
Tetrachloro-m-xylene		72	and with the state of the state	57 - 113	MANAGEM V
DCB Decachlorobiphenvi		76		56 - 115	

#### DATA REPORTING QUALIFIERS

Client: Pacific States Environmental

Job Number: 720-2983-1

 Lab Section
 Qualifier
 Description

 GC/MS Semi VOA

LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits

Client: Pacific States Environmental

Job Number: 720-2983-1

#### **QC Association Summary**

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-742	<b>25</b>		ngu u panand Usah Masi sapan Jangaranga (1997)	ene etter santa fizi iş mideri yir. Üzeriyengiye ererelmiştiying izerereningi izeri sartırı sasını ise ise meddese
LCS 720-7425/10	Lab Control Spike	Solid	8260B	
LCSD 720-7425/9	Lab Control Spike Duplicate	Solid	8260B	
MB 720-7425/11	Method Blank	Solid	8260B	
720-2983-1	606105-CQ-F-01	Solid	8260B	
Analysis Batch:720-744	15			
LCS 720-7445/1	Lab Control Spike	Solid	8260B	
MB 720-7445/2	Method Blank	Solid	8260B	
720-2983-1	606105-CQ-F-01	Solid	8260B	
GC/MS Semi VOA				
				.
Prep Batch: 720-7368	Late Orantani Onite	0.61	0.5500	
LCS 720-7368/2-A LCSD 720-7368/3-A	Lab Control Spike	Solid	3550B	
MB 720-7368/1-A	Lab Control Spike Duplicate Method Blank	Solid	3550B	
720-2983-1	606105-CQ-F-01	Solid	3550B	
720-2983-1MS		Solid	3550B	
720-2983-1MSD	Matrix Spike	Solid	3550B	
720-2903-1WOD	Matrix Spike Duplicate	Solid	3550B	
Analysis Batch:720-766	0			
LCS 720-7368/2-A	Lab Control Spike	Solid	8270C	720-7368
LCSD 720-7368/3-A	Lab Control Spike Duplicate	Solid	8270C	720-7368
MB 720-7368/1-A	Method Blank	Solid	8270C	720-7368
720-2983-1	606105-CQ-F-01	Solid	8270C	720-7368
720-2983-1MS	Matrix Spike	Solid	8270C	720-7368
720-2983-1MSD	Matrix Spike Duplicate	Solid	8270C	720-7368

Client: Pacific States Environmental

Job Number: 720-2983-1

#### **QC Association Summary**

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Prep Batch: 720-7366	mantananan menuntukan menunti situra lau meriari ana menantuan turarian peranajan menantukan turan be	de y proposity reprincipal languarian fogus mentalmente tidaj tej tradicial de tidas de tradaj de de principal	tagan penghang bagan pengangan pendan pagkan bagan badan pengangan penghan penghan penghan penghan penghan pen	на денежниция при
LCS 720-7366/2-A	Lab Control Spike	Solid	3550B	
LCSD 720-7366/3-A	Lab Control Spike Duplicate	Solid	3550B	
MB 720-7366/1-A	Method Blank	Solid	3550B	
720-2983-1	606105-CQ-F-01	Solid	3550B	
Prep Batch: 720-7369				
LCS 720-7369/2-B	Lab Control Spike	Solid	3550B	
LCSD 720-7369/3-B	Lab Control Spike Duplicate	Solid	3550B	
MB 720-7369/1-B	Method Blank	Solid	3550B	
720-2983-1	606105-CQ-F-01	Solid	3550B	
Analysis Batch:720-75	666			
720-2983-1	606105-CQ-F-01	Solid	8081A	
Analysis Batch:720-74	114			4
LCS 720-7366/2-A	Lab Control Spike	Solid	8082	720-7366
LCSD 720-7366/3-A	Lab Control Spike Duplicate	Solid	8082	720-7366
MB 720-7366/1-A	Method Blank	Solid	8082	720-7366
720-2983-1	606105-CQ-F-01	Solid	8082	720-7366
Analysis Batch:720-75	97			
LCS 720-7369/2-B	Lab Control Spike	Solid	8015B	720-7369
LCSD 720-7369/3-B	Lab Control Spike Duplicate	Solid	8015B	720-7369
VIB 720-7369/1-B	Method Blank	Solid	8015B	720-7369
720-2983-1	606105-CQ-F-01	Solid	8015B	720-7369

Client: Pacific States Environmental

Job Number: 720-2983-1

Method Blank - Batch: 720-7425

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-7425/11

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 04/06/2006 1313 Date Prepared: 04/06/2006 1313 Analysis Batch: 720-7425

Prep Batch: N/A

Units: mg/Kg

Instrument ID: Saturn 3900B

Lab File ID: c:\saturnws\data\200604\04

Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL .
Gasoline Range Organics (GRO)-C5-C12	ND	-	1.0
Surrogate	% Rec	Ac	cceptance Limits
Toluene-d8 1,2-Dichloroethane-d4	93 97		70 - 130 60 - 140

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7425

Method: 8260B Preparation: 5030B

LCS Lab Sample ID: LCS 720-7425/10

Client Matrix:

Solid Dilution: 1.0

Date Analyzed: Date Prepared:

04/06/2006 1119 04/06/2006 1119

Analysis Batch: 720-7425

Prep Batch: N/A

Units: mg/Kg

Instrument ID: Saturn 3900B

Lab File ID: c:\saturnws\data\200604\04

Initial Weight/Volume:

5 g

Final Weight/Volume:

10 mL

LCSD Lab Sample ID: LCSD 720-7425/9

Client Matrix: Dilution:

Solid

Date Analyzed: Date Prepared: 1.0

04/06/2006 1227 04/06/2006 1227 Analysis Batch: 720-7425

Prep Batch: N/A Units: mg/Kg

Instrument ID:

Saturn 3900B

Lab File ID: c:\saturnws\data\200604\04(

Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Analyte	LCS	<u>6 Rec.</u> LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	89	97	69 - 129	8	20	Tricket Et Politi i Art Et Scholiel of CE Privillian and announce, a pages	CONTENTION ASSOCIATION CONTENTION OF THE PROPERTY OF THE PROPE
Toluene	89	93	70 - 130	5	20		
MTBE	106	93	65 - 165	13	20		
Surrogate	L	CS % Rec	LCSD %	Rec	Accep	otance Limits	
Toluene-d8	9:	3	94		7	0 - 130	
1,2-Dichloroethane-d4	8	6	83		6	0 - 140	

Client: Pacific States Environmental

Job Number: 720-2983-1

Method Blank - Batch: 720-7445

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-7445/2

Client Matrix: Solid

1.0

Dilution:

Date Analyzed: 04/06/2006 1247 Date Prepared: 04/06/2006 1247 Analysis Batch: 720-7445

Prep Batch: N/A

Units: ug/Kg

Instrument ID: Latest Chemstation Lab File ID: 040606006.D

Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND	**************************************	5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND	•	5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	, ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND	•	5.0
Chloromethane	ND		10
2-Chlorotoluene	ND ·		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND -		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	` ND	New Control of Control	5.0
1,2-Dibromo-3-Chloropropane	ND		50
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND	•	5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
Isopropylbenzene	ND		5.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Pacific States Environmental

Job Number: 720-2983-1

Method Blank - Batch: 720-7445

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-7445/2

Client Matrix: Solid Dilution:

1.0

Date Analyzed: 04/06/2006 1247 Date Prepared: 04/06/2006 1247 Analysis Batch: 720-7445

Prep Batch: N/A

Units: ug/Kg

Instrument ID: Latest Chemstation Lab File ID: 040606006.D

Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
methyl isobutyl ketone	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND	•	5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	99	60 - 140	NOVI PROGRAMI A ARTICLA AND COMMAND AND COMPANY OF THE ARTICLA STATE OF
1,2-Dichloroethane-d4	80	60 - 140	
Toluene-d8	86	70 - 130	
		10 100	

Client: Pacific States Environmental

Job Number: 720-2983-1

Laboratory Control Sample - Batch: 720-7445

Method: 8260B Preparation: 5030B

Lab Sample ID: LCS 720-7445/1

Client Matrix: Solid

1.0

Date Analyzed: 04/06/2006 1221 Date Prepared: 04/06/2006 1221

Dilution:

Analysis Batch: 720-7445

Prep Batch: N/A

Units: ug/Kg

Instrument ID: Latest Chemstation

Lab File ID: 040606005.D Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	100	86	86	69 - 129	
Chlorobenzene	100	86	86	61 - 121	
1,1-Dichloroethene	100	80	80	65 - 125	
Toluene	100	84	84	70 - 130	
Trichloroethene	100	85	85	74 - 134	
Surrogate	% R		Acc	ceptance Limits	
4-Bromofluorobenzene	92	99900 Programme Charles (Charles) Secretaria de la consecución del consecución de la	PORONI (POROSCO ARREMANDA MARIAMANA MARIAMANA MARIAMANA ARREMANDA	60 - 140	and an extension of the control of t
1,2-Dichloroethane-d4	 76			60 - 140	
Toluene-d8	79			70 - 130	

Client: Pacific States Environmental

Job Number: 720-2983-1

Method Blank - Batch: 720-7368

Method: 8270C Preparation: 3550B

Lab Sample ID: MB 720-7368/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 04/09/2006 1336 Date Prepared: 04/06/2006 0818 Analysis Batch: 720-7660 Prep Batch: 720-7368

Units: mg/Kg

Instrument ID: Sat 2K1

Lab File ID: d:\data\200604\040906\mb

Initial Weight/Volume: 30.07 g Final Weight/Volume: 1 mL

Injection Volume:

Analyte	Result	Qual	RL
Phenol	ND		0.067
Bis(2-chloroethyl)ether	ND		0.067
2-Chlorophenol	ND		0.067
1,3-Dichlorobenzene	ND		0.067
1,4-Dichlorobenzene	ND		0.067
Benzyl alcohol	ND		0.17
1,2-Dichlorobenzene	ND		0.067
2-Methylphenol	ND		0.067
4-Methylphenol	ND		0.067
N-Nitrosodi-n-propylamine	ND		0.067
Hexachloroethane	ND		0.067
Nitrobenzene	ND		0.067
Isophorone	ND		0.067
2-Nitrophenol	ND		0.067
2,4-Dimethylphenol	ND		0.067
Bis(2-chloroethoxy)methane	ND		0.17
2,4-Dichlorophenol	ND		0.067
1,2,4-Trichlorobenzene	ND		0.067
Naphthalene	ND		0.067
4-Chloroaniline	ND		0.067
Hexachlorobutadiene	ND		0.067
4-Chloro-3-methylphenol	ND		0.17
2-Methylnaphthalene	ND		0.067
Hexachlorocyclopentadiene.	ND		0.17
2,4,6-Trichlorophenol	ND		0.067
2,4,5-Trichlorophenol	ND		0.067
2-Chloronaphthalene	ND		0.067
2-Nitroaniline	ND		0.33
Dimethyl phthalate	ND		0.17
Acenaphthylene	ND		0.067
3-Nitroaniline	ND		0.067
Acenaphthene	ND:		0.067
2,4-Dinitrophenol	ND		0.33
4-Nitrophenol	ND		0.33
Dibenzofuran	ND		0.067
2,4-Dinitrotoluene	ND		0.067
2,6-Dinitrotoluene	ND		0.067
Diethyl phthalate	ND		0.17
4-Chlorophenyl phenyl ether	ND		0.17
Fluorene	ND		0.067
4-Nitroaniline	ND		0.33

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Pacific States Environmental

Job Number: 720-2983-1

Method Blank - Batch: 720-7368

Method: 8270C Preparation: 3550B

Lab Sample ID: MB 720-7368/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 04/09/2006 1336 Date Prepared: 04/06/2006 0818 Analysis Batch: 720-7660 Prep Batch: 720-7368

Units: mg/Kg

Instrument ID: Sat 2K1

Lab File ID: d:\data\200604\040906\mb

Initial Weight/Volume: 30.07 g Final Weight/Volume: 1 mL

Injection Volume:

Analyte	Result	Qual	RL
2-Methyl-4,6-dinitrophenol	ND		0.33
N-Nitrosodiphenylamine	ND		0.067
4-Bromophenyl phenyl ether	ND		0.17
Hexachlorobenzene	ND		0.067
Pentachlorophenol	ND		0.33
Phenanthrene	ND		0.067
Anthracene	ND		0.067
Di-n-butyl phthalate	ND		0.17
Fluoranthene	ND		0.067
Pyrene	ND		0.067
Butyl benzyl phthalate	ND		0.17
3,3'-Dichlorobenzidine	ND		0.17
Benzo[a]anthracene	ND		0.067
Bis(2-ethylhexyl) phthalate	ND		0.33
Chrysene	ND		0.067
Di-n-octyl phthalate	ND		0.17
Benzo[b]fluoranthene	ND		0.067
Benzo[a]pyrene	ND		0.067
Benzo[k]fluoranthene	ND		0.067
Indeno[1,2,3-cd]pyrene	ND		0.067
Benzo[g,h,i]perylene	ND		0.067
Benzoic acid	ND		0.33
Azobenzene	ND		0.067
Dibenz(a,h)anthracene	ND	•	0.067
Surrogate	% Rec	Acceptance Limits	
Nitrobenzene-d5	72	23 - 120	CONTROL OF THE SECOND AND AND AND AND AND AND AND AND AND A
2-Fluorobiphenyl	69	30 - 115	
Terphenyl-d14	92	18 - 137	
2-Fluorophenol	71	25 - 121	
Phenol-d5	80	24 - 113	
2,4,6-Tribromophenol	79	19 - 122	

Client: Pacific States Environmental

Job Number: 720-2983-1

Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-7368 Method: 8270C Preparation: 3550B

LCS Lab Sample ID: LCS 720-7368/2-A

Client Matrix:

Solid

Dilution:

Date Analyzed: Date Prepared:

1.0

04/09/2006 1403 04/06/2006 0818 Analysis Batch: 720-7660 Prep Batch: 720-7368

Units: mg/Kg

Instrument ID: Sat 2K1

d:\data\200604\040906\lcs Lab File ID:

Initial Weight/Volume: 30.06 g

Final Weight/Volume: 1 mL

Injection Volume:

LCSD Lab Sample ID: LCSD 720-7368/3-A

Client Matrix: Dilution:

1.0

Date Analyzed: Date Prepared: 04/06/2006 0818

Solid

04/09/2006 1430

Analysis Batch: 720-7660 Prep Batch: 720-7368

Units: mg/Kg

Instrument ID: Sat 2K1

Lab File ID: d:\data\200604\040906\lcsd

Initial Weight/Volume: 30.17 g Final Weight/Volume: 1 mL

Injection Volume:

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phenol	75	75	5 - 112	0	35	***************************************	Abbandin berilenin (Artifician) Abbilden beringilari ett.
Bis(2-chloroethyl)ether	86	86	12 - 158	0	35		
2-Chlorophenol	80	82	23 - 134	2	35		
1,3-Dichlorobenzene	75	76	9 - 172	2	35		
1,4-Dichlorobenzene	80	79	20 - 124	2	35		
Benzyl alcohol	82	84	10 - 130	2	35		
1,2-Dichlorobenzene	75	80	32 - 129	6	35		
2-Methylphenol	83	86	10 - 130	3	35		
4-Methylphenol	158	154	10 - 130	3	35	*	*
N-Nitrosodi-n-propylamine	92	89	9 - 230	3	35	,	
Hexachloroethane	80	83	40 - 113	4	35		
Nitrobenzene	87	82	35 - 180	6	35		
Isophorone	87	81	21 - 196	7	35		
2-Nitrophenol	91	86	29 - 182	7	35		
2,4-Dimethylphenol	89	85	32 - 119	5	35		
Bis(2-chloroethoxy)methane	86	82	33 - 184		35		
2,4-Dichlorophenol	85	80	10 ~ 130	<u>5</u> 7	35		
1,2,4-Trichlorobenzene	89	82	44 - 142	8	35		
Naphthalene	88	82	21 - 133	8	35		
4-Chloroaniline	31	32	10 - 130	3	35		
Hexachlorobutadiene	81	80	24 - 116	3	35		
4-Chloro-3-methylphenoi	80	85	10 - 130	5	35		
2-Methylnaphthalene	90	81	10 ~ 130	10	35		
Hexachlorocyclopentadiene	93	95	10 - 130	2	35		
2,4,6-Trichlorophenol	81	84	37 - 144	3	35		
2,4,5-Trichlorophenol	91	88	10 - 130	4	35		
2-Chloronaphthalene	88	81	10 - 130	8	35		
2-Nitroaniline	88	86	10 - 130	3	35		
Dimethyl phthalate	99	94	9 - 112	6	35		
Acenaphthylene	92	95	33 - 145	3	35		
3-Nitroaniline	97	89	10 - 130	9	35		
Acenaphthene	87	82	47 - 145	6	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Pacific States Environmental

Job Number: 720-2983-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7368

Method: 8270C Preparation: 3550B

LCS Lab Sample ID: LCS 720-7368/2-A

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: Date Prepared:

04/09/2006 1403

04/06/2006 0818

Analysis Batch: 720-7660 Prep Batch: 720-7368

Units: mg/Kg

Instrument ID: Sat 2K1

Lab File ID: d:\data\200604\040906\lcs

Initial Weight/Volume: 30.06 g Final Weight/Volume: 1 mL

Injection Volume:

LCSD Lab Sample ID: LCSD 720-7368/3-A

Client Matrix: Dilution:

Solid 1.0

Date Analyzed:

04/09/2006 1430

Date Prepared:

04/06/2006 0818

Analysis Batch: 720-7660 Prep Batch: 720-7368

Units:mg/Kg

Instrument ID: Sat 2K1

Lab File ID: d:\data\200604\040906\lcsd

Initial Weight/Volume: 30.17 g Final Weight/Volume: 1 mL

Injection Volume:

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-Dinitrophenol	98	103	9 - 191	· 5	35	N. Markittel Josefferson M. Annahud dan samura asas asal samu	a papilingung a promoting radi stranks, education (AM selection AM).
4-Nitrophenol	108	113	10 - 130	4	35		
Dibenzofuran	86	83	10 - 130	3	35		
2,4-Dinitrotoluene	97	102	39 - 139	5	35		
2,6-Dinitrotoluene	98	97	50 - 158	2	35		
Diethyl phthalate	101	102	9 - 114	0	35		•
4-Chlorophenyl phenyl ether	95	86	25 - 158	11	35		
Fluorene	93	97	59 - 121	5	35		
4-Nitroaniline	99	94	10 - 130	5	35		
2-Methyl-4,6-dinitrophenol	116	118	9 - 181	1	35		
N-Nitrosodiphenylamine	94	97	10 - 130	3	35		
4-Bromophenyl phenyl ether	105	94	53 - 127	11	35		
Hexachlorobenzene	91	95	9 - 152	4	35		
Pentachlorophenol	103	95	14 - 176	9	35		
Phenanthrene	92	96	10 - 130	4	35		
Anthracene	. 101	90	27 - 133	_11	35		
Di-n-butyl phthalate	96	95	10 - 130	1	35		
Fluoranthene .	104	90	26 - 137	15	35		
Pyrene	86	86	52 - 115	1	35		
Butyl benzyl phthalate	98	104	10 - 130	6	35		
3,3'-Dichlorobenzidine	72	77	10 - 130	7	35		
Benzo(a)anthracene	84	86	33 - 143	2	35		
Bis(2-ethylhexyl) phthalate	95	101	8 - 158	6	35		
Chrysene	82	86	17 - 168	4	35		
Di-n-octyl phthalate	94	98	4 - 146	3	35		
Benzo[b]fluoranthene	90	95	24 - 159	6	35		
Benzo[a]pyrene	98	99	17 - 163	1	35		
Benzo[k]fluoranthene	90	90	11 - 162	1	35		
Indeno[1,2,3-cd]pyrene	89	91	9 - 171	2	35		
Benzo[g,h,i]perylene	93	95	9 - 219	1	35		
Benzoic acid	40	43.	10 - 130	7	35		
Azobenzene	86	88	10 - 130	2	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Pacific States Environmental

Job Number: 720-2983-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7368

Method: 8270C Preparation: 3550B

LCS Lab Sample ID: LCS 720-7368/2-A

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: Date Prepared: 04/09/2006 1403 04/06/2006 0818 Analysis Batch: 720-7660 Prep Batch: 720-7368

Units: mg/Kg

Instrument ID: Sat 2K1

Lab File ID: d:\data\200604\040906\ics

Initial Weight/Volume:

30.06 g

1 mL

Final Weight/Volume:

Injection Volume:

LCSD Lab Sample ID: LCSD 720-7368/3-A

Client Matrix: Dilution:

Solid 1.0

Date Analyzed: Date Prepared: 04/09/2006 1430

04/06/2006 0818

Analysis Batch: 720-7660 Prep Batch: 720-7368

Units:mg/Kg

Instrument ID: Sat 2K1

Lab File ID: d:\data\200604\040906\icsd

Initial Weight/Volume: 30.17 g Final Weight/Volume: 1 mL

Injection Volume:

Analyte	LCS	Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dibenz(a,h)anthracene	95	99	10 - 130	4	35	re recomment remarké exercise exercise v relinit	***************************************
Surrogate	LC	CS % Rec	LCSD %	Rec	Accep	tance Limits	
Nitrobenzene-d5	83	}	77		23	3 - 120	
2-Fluorobiphenyl	76	3	74		30	0 - 115	
Terphenyl-d14	91		90		18	3 - 137	
2-Fluorophenol	70	)	71		25	5 - 121	
Phenol-d5	- 83	3	85		24	4 - 113	
2,4,6-Tribromophenol	93	3	93		19	9 - 122	

Client: Pacific States Environmental

Job Number: 720-2983-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7368

Method: 8270C Preparation: 3550B

MS Lab Sample ID:

720-2983-1

Client Matrix:

Solid

Analysis Batch: 720-7660

Instrument ID: Sat 2K1

5.0

Prep Batch: 720-7368

d:\data\200604\040906\72

Dilution:

Lab File ID:

Date Analyzed:

04/09/2006 1525

Initial Weight/Volume: 30.27 g Final Weight/Volume: 1 mL

Date Prepared:

04/06/2006 0818

Injection Volume:

Client Matrix:

MSD Lab Sample ID: 720-2983-1

Analysis Batch: 720-7660

Instrument ID: Sat 2K1

Solid

Dilution:

5.0

Prep Batch: 720-7368

Lab File ID: d:\data\200604\040906\720

Initial Weight/Volume: 30.32 g

Date Analyzed: Date Prepared:

04/09/2006 1552 04/06/2006 0818 Final Weight/Volume: 1 mL Injection Volume:

	<u>% F</u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	58	68	5 - 112	15	35	***************************************	
Bis(2-chloroethyl)ether	44	78	12 - 158	55	35		*
2-Chlorophenol	57	73	23 - 134	24	35		
1,3-Dichlorobenzene	28	62	9 - 172	74	35		*
1,4-Dichlorobenzene	31	68	20 - 124	75	35		*
Benzyl alcohol	55	75	10 - 130	31	35		
1,2-Dichlorobenzene	32	68	32 - 12 <del>9</del>	70	35		*
2-Methylphenol	67	80	10 - 130	18	35		
4-Methylphenol	134	153	10 - 130	14	35	*	*
N-Nitrosodi-n-propylamine	56	77	9 - 230	32	35		
Hexachloroethane	43	70	40 - 113	47	35		*
Nitrobenzene	47	71	35 - 180	40	35		*
Isophorone	59	75	21 - 196	25	35		
2-Nitrophenol	56	81	29 - 182	37	35	•	*
2,4-Dimethylphenol	.73	79	32 - 119	8	35		
Bis(2-chloroethoxy)methane	57	73	33 - 184	24	35		
2,4-Dichlorophenol	76	79	10 - 130	3	35		
1,2,4-Trichlorobenzene	52	75	44 - 142	36	35		*
Naphthalene	49	68	21 - 133	33	35		
4-Chloroaniline	37	44	10 - 130	17	35		
Hexachlorobutadiene	47	69	24 - 116	37	35		*
4-Chloro-3-methylphenol	80	80	10 - 130	0	35		
2-Methylnaphthalene	62	74	10 - 130	18	35		
Hexachlorocyclopentadiene	63	67	10 - 130	6	35		
2,4,6-Trichlorophenol	77	81	37 - 144	5	35		
2,4,5-Trichlorophenol	89	90	10 - 130	0	35		
2-Chloronaphthalene	71	83	10 - 130	16	35		
2-Nitroaniline	86	85	10 - 130	1	35		
Dimethyl phthalate	88	96	9 - 112	9	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Pacific States Environmental

Job Number: 720-2983-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7368

Method: 8270C Preparation: 3550B

MS Lab Sample ID:

720-2983-1

Analysis Batch: 720-7660

Instrument ID: Sat 2K1

Client Matrix:

Solid

Dilution:

Prep Batch: 720-7368

Lab File ID: d:\data\200604\040906\72

5.0

Initial Weight/Volume: 30.27 g

Date Analyzed: Date Prepared: 04/09/2006 1525 04/06/2006 0818 Final Weight/Volume: 1 mL

Injection Volume:

MSD Lab Sample ID: 720-2983-1

Analysis Batch: 720-7660

Instrument ID: Sat 2K1

Client Matrix:

Solid

Dilution:

5.0

Prep Batch: 720-7368

% Rec.

Lab File ID: d:\data\200604\040906\720

Date Analyzed:

04/09/2006 1552

Initial Weight/Volume: 30.32 g Final Weight/Volume: 1 mL

Injection Volume:

Date Prepared: 04/06/2006 0818

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthylene	78	90	33 - 145	14	35		***************************************
3-Nitroaniline	87	78	10 - 130	10	35		
Acenaphthene	75	81	47 - 145	6	35		
2,4-Dinitrophenol	75	73	9 - 191	3	35		
4-Nitrophenol	72	58	10 - 130	22	35		
Dibenzofuran	78	88	10 - 130	12	35		
2,4-Dinitrotoluene	96	98	39 - 139	2	35		
2,6-Dinitrotoluene	98	111	50 - 158	13	35		
Diethyl phthalate	96	101	9 - 114	4	35		
4-Chlorophenyl phenyl ether	87	84	25 - 158	4	35		
Fluorene	82	89	59 - 121	8	35		
4-Nitroaniline	99	101	10 - 130	2	35		
2-Methyl-4,6-dinitrophenol	89	84	9 - 181	6	35		
N-Nitrosodiphenylamine	81	84	10 - 130	4	35		
4-Bromophenyl phenyl ether	-79	81	53 - 127	3	35		
Hexachlorobenzene	89	94	9 - 152	5	35		
Pentachlorophenol	42	30	14 - 176	33	35		
Phenanthrene	78	84	- 10 - 130	8	35		
Anthracene	79	88	27 - 133	10	35		
Di-n-butyl phthalate	93	101	10 - 130	8	35		
Fluoranthene	85	90	26 - 137	5	35		
Pyrene	79	79	52 - 115	0	35		
Butyl benzyl phthalate	95	101	10 - 130	6	35		
3,3'-Dichlorobenzidine	70	64	10 - 130	9	35		
Benzo[a]anthracene	34	68	33 - 143	58	35		*
Bis(2-ethylhexyl) phthalate	96	104	8 - 158	8	35		
Chrysene	77	87	17 - 168	12	35		
Di-n-octyl phthalate	90	89	4 - 146	2	35		
Benzo(b)fluoranthene	90	82	24 - 159	9	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Pacific States Environmental

Job Number: 720-2983-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7368

Method: 8270C Preparation: 3550B

MS Lab Sample ID:

720-2983-1

Analysis Batch: 720-7660

Client Matrix:

Solid

Instrument ID: Sat 2K1

Dilution:

5.0

Prep Batch: 720-7368

Lab File ID:

d:\data\200604\040906\72

Date Analyzed: 04/09/2006 1525 Initial Weight/Volume: 30.27 g

Final Weight/Volume: 1 mL Injection Volume:

Date Prepared:

MSD Lab Sample ID: 720-2983-1

Analysis Batch: 720-7660

Instrument ID: Sat 2K1

Client Matrix:

Solid

Lab File ID: d:\data\200604\040906\720

5.0

Prep Batch: 720-7368

Initial Weight/Volume: 30.32 g

Dilution: Date Analyzed: Date Prepared:

04/09/2006 1552 04/06/2006 0818

04/06/2006 0818

Final Weight/Volume: 1 mL

Injection Volume:

	<u>%</u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzo[a]pyrene	86	80	17 - 163	8	35	***************************************	***************************************
Benzo[k]fluoranthene	75	78	11 - 162	5	35		
Indeno[1,2,3-cd]pyrene	82	82	9 - 171	0	35		
Benzo[g,h,i]perylene	94	93	9 - 219	1	35		
Benzoic acid	2	2	10 - 130	1	35	*	*
Azobenzene	81	91	10 - 130	11	35		
Dibenz(a,h)anthracene	86	95	10 - 130	10	35		
Surrogate		MS % Rec	MSD %	Rec	Acce	ptance Limit	S
Nitrobenzene-d5		43	63		23	- 120	
2-Fluorobiphenyl		57	71		30	- 115	
Terphenyl-d14		77	79		18	i - 137	
2-Fluorophenol		46	61		25	- 121	
Phenol-d5		61	74		24	- 113	
2,4,6-Tribromophenol		90	91	-	19	- 122	

Client: Pacific States Environmental

Job Number: 720-2983-1

Method Blank - Batch: 720-7369

Method: 8015B Preparation: 3550B

Lab Sample ID: MB 720-7369/1-B

Client Matrix: Solid Dilution:

1.0

Date Analyzed: 04/09/2006 1043 Date Prepared: 04/06/2006 0821

Analysis Batch: 720-7597

Prep Batch: 720-7369

Units: mg/Kg

Instrument ID: HP DRO5

Lab File ID: N/A

Initial Weight/Volume: 30.09 g Final Weight/Volume: 5 mL

Injection Volume:

Column ID:

PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		1.0
Motor Oil Range Organics [C24-C36]	ND		50
Surrogate	% Rec	Acceptance Limits	
o-Terphenyl	69	60 - 130	

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7369

Method: 8015B Preparation: 3550B

LCS Lab Sample ID: LCS 720-7369/2-B

Client Matrix: Dilution:

Solid

Date Analyzed: Date Prepared:

1.0

04/09/2006 0948 04/06/2006 0821 Analysis Batch: 720-7597

Prep Batch: 720-7369

Units: mg/Kg

Instrument ID: HP DRO5

Lab File ID: N/A

Initial Weight/Volume: 30.26 g Final Weight/Volume: 5 mL

HP DRO5

Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-7369/3-B

Client Matrix: Dilution:

Solid

Date Analyzed: Date Prepared: 1.0 04/09/2006 1015

04/06/2006 0821

Analysis Batch: 720-7597

Prep Batch: 720-7369 Units: mg/Kg

Instrument ID:

Lab File ID: N/A

Initial Weight/Volume: 30.19 g

Final Weight/Volume: 5 mL

Injection Volume:

Column ID:

**PRIMARY** 

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	بورية أبوه يحونها والمحمد عرقانة أخالها أدراه أرقانا فاخاله	***************************************	والمراجعة		Biologic McGristan de Algebra de	~~~~	
Diesel Range Organics [C10-C28]	79	79	60 - 130	1	30		
Surrogate	LC	S % Rec	LCSD % I	₹ес	Accep	tance Limits	
o-Terphenyl	85		86	ne na nanananganga da kida kida kida kida kida kida kida	6	0 - 130	CONTESTION STATE AND ARCHITECTURE AND AR

Client: Pacific States Environmental

Job Number: 720-2983-1

Method Blank - Batch: 720-7366

Method: 8082 Preparation: 3550B

Lab Sample ID: MB 720-7366/1-A

Client Matrix: Solid Dilution:

1.0

Date Analyzed: 04/06/2006 1500

Date Prepared: 04/06/2006 0803

Analysis Batch: 720-7414

Prep Batch: 720-7366

Units: ug/Kg

Instrument ID: Agilent PCB 2

Lab File ID: N/A

Initial Weight/Volume: 30.17 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL.
PCB-1016	ND		50
PCB-1221	ND		50
PCB-1232	ND		50
PCB-1242	ND		50
PCB-1248	ND		50
PCB-1254	ND		50
PCB-1260	ND		50
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	69	57 - 113	
DCB Decachlorobiphenyl	81	56 - 115	

Client: Pacific States Environmental

Job Number: 720-2983-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7366

Method: 8082

Preparation: 3550B

LCS Lab Sample ID: LCS 720-7366/2-A

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: Date Prepared: 04/06/2006 1520 04/06/2006 0803 Analysis Batch: 720-7414 Prep Batch: 720-7366

Units: ug/Kg

Instrument ID: Agilent PCB 2

Lab File ID: N/A

Initial Weight/Volume:

30.23 g 10 mL

Final Weight/Volume: Injection Volume:

Column ID:

**PRIMARY** 

LCSD Lab Sample ID: LCSD 720-7366/3-A

Client Matrix:

Solid 1.0

Dilution: Date Analyzed: Date Prepared:

04/06/2006 1539 04/06/2006 0803 Analysis Batch: 720-7414 Prep Batch: 720-7366

Units: ug/Kg

Instrument ID: Agilent PCB 2

Lab File ID:

Initial Weight/Volume: 30.14 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID:

PRIMARY

	<u>.</u>	<u>% Rec.</u>					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
PCB-1016	. 89	82	65 - 135	8	30		
PCB-1260	92	89	65 - 135	3	30		
Surrogate	. 1	CS % Rec	LCSD %	Rec	Accep	tance Limits	3
Tetrachloro-m-xylene		<sup>7</sup> 1	70	***************************************	5	7 - 113	MANUFACTURE CONTRACTOR OF THE PROPERTY OF THE
DCB Decachlorobiphenyl	8	33	82		5	8 - 115	

						60\$105-1CQ-1FD 320 1S-1-1X	PO#:  PO#:  Date Received: 3) 3c   66  Submission No.: 720 - 2894  Sample ID Date Time Mat Prev. THE Gas w ID BTEX	Project Name: Have'n Aye	Project Mgr.: Jan Ruff	Client Name: Jaci Cr Stalt	ORIGINAL SUBMISSION INFORMATION	SEMBRN ST
					7	<b>人</b>	Purgeable Aromatics BTEX EPA - □ 8021 □ 82608 ¹  TEPH (EPA 8015M) □ Silica Gel Q Diesel Q Motor Oil □ Other  Fuel Tests EPA 82608 □ Ges □ 8TEX □ Five Oxygenites □ DOA EDB □ Enhanol  Purgeable Halocarbons (HVOCS) □ EPA 8021 by 8260B  Volatile Organics GC/MS (VOCS) □ EPA 8260B □ 624  Semivolatiles GC/MS (FPA 8270 □ 625  Oil & Grease □ Petroleum (EPA 1664) □ Total  \$1 Pesticides □ EPA 8081 □ 608 ☐ PCBs □ EPA 8082 □ 608  PNAs by □ 8270 □ 8310  CAM 17 Metals (EPA 6010/7470/7471)  Metals: □ Lead □ LUFT □ RCRA	ANALYSIS BEOLETA	Add on Due Date: '54//2/06	Call Date:	Name of Caller: Jon - Ruff	370 - 2983 STL San Francisco ADD ON/CHANGE ORDER
Rev 1900							Cov Level Metals by EPA 200.8/6020 ((ICP-MS):  W.E.T (STLC)  TCLP  Hexavatient Chromium  ph (24h hold time for H <sub>2</sub> O)  Spec Cond. □ Alkalinity  TSS □ TDS  Anions: □ Cl □ SO <sub>2</sub> □ NO <sub>3</sub> □ F  □ Br □ NO <sub>2</sub> □ PO <sub>4</sub>		Comments:	Attn.: 78hi Puff	BIII To: Pacific States	New Submission No.:  Reference No.: 40265

#### LOGIN SAMPLE RECEIPT CHECK LIST

Client: Pacific States Environmental

Job Number: 720-2983-1

Login Number: 2983

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	•
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



#### **ANALYTICAL REPORT**

Job Number: 720-2894-1

Job Description: Haven Ave

For:
Pacific States Environmental
PO BOX 11357
Pleasanton, CA 94588

Attention: Mr. Jon Ruff

Swide Sidle

Surinder Sidhu Project Manager I ssidhu@stl-inc.com 04/05/2006

Project Manager: Surinder Sidhu

#### **METHOD SUMMARY**

Client: Pacific States Environmental

Job Number: 720-2894-1

Descript	ion	Lab Location	Method	<b>Preparation Method</b>
Matrix:	Solid			
Inductively	Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	STL-SF STL-SF	SW846 60	010B SW846 3050B
Mercury in Technique	Solid or Semisolid Waste (Manual Cold Vapor	STL-SF	SW846 74	171A
roomique	Mercury in Solid or Semi-Solid Waste (Manual	STL-SF		SW846 7471A

#### LAB REFERENCES:

STL-SF = STL-San Francisco

#### **METHOD REFERENCES:**

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### SAMPLE SUMMARY

Client: Pacific States Environmental

Job Number: 720-2894-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-2894-1	606105-CQ-F-01	Solid	03/30/2006 0820	03/30/2006 0925

Client: Pacific States Environmental

Job Number: 720-2894-1

Client Sample ID: 606105-CQ-F-01

Lab Sample ID:

720-2894-1

Client Matrix:

Solid

Date Sampled:

03/30/2006 0820

Date Received:

03/30/2006 0925

#### 6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:

6010B

Analysis Batch: 720-7187

Instrument ID:

Varian ICP

Preparation:

3050B

Lab File ID:

Dilution:

Prep Batch: 720-7172

N/A

Date Analyzed:

1.0

Initial Weight/Volume: Final Weight/Volume:

1.02 g 50 mL

Date Prepared:

03/31/2006 1422 03/31/2006 0635

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Antimony	randari-ra ayuu taabaa ka ayaa ee taaba ka jiraa ka ahaa ka jira gaaliya qoo iya iyaa iyaa iyaa ka ka ka ka ka	ND		2.0
Arsenic		2.8		0.98
Barium		110		0.98
Beryllium		ND		0.49
Cadmium		0.91		0.49
Chromium		21		0.98
Cobalt		5.6		0.98
Copper		7.7		0.98
Lead		4.6		0.98
Molybdenum		ND		0.98
Nickel		26		0.98
Selenium		ND		2.0
Silver		ND		0.98
Thallium		ND		0.98
Vanadium		17		0.98

#### 7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:

Zinc

7471A

7471A

Analysis Batch: 720-7234

27

Instrument ID: Lab File ID:

**FIMS 100** 

0.98

Preparation: Dilution:

1.0

Prep Batch: 720-7210

Initial Weight/Volume:

1.04 g

N/A

Date Analyzed: Date Prepared: 04/03/2006 1339 04/03/2006 0808 Final Weight/Volume:

50 mL

Analyte

DryWt Corrected: N

Result (mg/Kg)

Qualifier

RL

Mercury

ND

0.048

Client: Pacific States Environmental

Job Number: 720-2894-1

#### QC Association Summary

Lab Sample ID	Client Sample ID	Client Matríx	Method	Prep Batch
Metals				
Prep Batch: 720-7172	има индерильням и выя и вы инвышенеру перых перу извыем ревыловеровае извыен и выру печи Iran и пе			I TOMAN IN TOMAN NA ANTAN AND THE TOMAN AND AND AND AND AND AND AND AND AND A
LCS 720-7172/2-A	Lab Control Spike	Solid	3050B	
LCSD 720-7172/3-A	Lab Control Spike Duplicate	Solid	3050B	
MB 720-7172/1-A	Method Blank	Solid	3050B	
720-2874-A-1-B MS	Matrix Spike	Solid	3050B	
720-2874-A-1-C MSD	Matrix Spike Duplicate	Solid	3050B	
720-2894-1	606105-CQ-F-01	Solid	3050B	
Prep Batch: 720-7210				
LCS 720-7210/2-A	Lab Control Spike	Solid	7471A	
LCSD 720-7210/3-B	Lab Control Spike Duplicate	Solid	7471A	
MB 720-7210/1-A	Method Blank	Solid	7471A	
720-2894-1	606105-CQ-F-01	Solid	7471A	
720-2896-A-1-C MS	Matrix Spike	Solid	7471A	
720-2896-A-1-D MSD	Matrix Spike Duplicate	Solid	7471A	
Analysis Batch:720-71	87			
LCS 720-7172/2-A	Lab Control Spike	Solid	6010B	720-7172
LCSD 720-7172/3-A	Lab Control Spike Duplicate	Solid	6010B	720-7172
MB 720-7172/1-A	Method Blank	Solid	6010B	720-7172
720-2874-A-1-B MS	Matrix Spike	Solid	6010B	720-7172
720-2874-A-1-C MSD	Matrix Spike Duplicate	Solid	6010B	720-7172
720-2894-1	606105-CQ-F-01	Solid	6010B	720-7172
Analysis Batch:720-72	34			
LCS 720-7210/2-A	Lab Control Spike	Solid	7471A	720-7210
LCSD 720-7210/3-B	Lab Control Spike Duplicate	Solid	7471A	720-7210
MB 720-7210/1-A	Method Blank	Solid	7471A	720-7210
720-2894-1	606105-CQ-F-01	Solid	7471A	720-7210
720-2896-A-1-C MS	Matrix Spike	Solid	7471A	720-7210
720-2896-A-1-D MSD	Matrix Spike Duplicate	Solid	7471A	720-7210

Client: Pacific States Environmental

Job Number: 720-2894-1

Method Blank - Batch: 720-7172

Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-7172/1-A

Client Matrix: Solid

Dilution:

1.0

Date Analyzed: 03/31/2006 1327 Date Prepared: 03/31/2006 0635 Analysis Batch: 720-7187

Prep Batch: 720-7172

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Antimony	ND	par from mir value of mars faith and an faith of mens in the branch of the party of	2.0
Arsenic	ND		1.0
Barium	ND		1.0
Beryllium	ND		0.50
Cadmium	ND		0.50
Chromium	ND		1.0
Cobalt	ND		1.0
Copper	ND		1.0
Lead	ND		1.0
Molybdenum	ND		1.0
Nickel	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Thallium	ND		1.0
Vanadium	ND		1.0
Zinc	ND		1.0

Client: Pacific States Environmental

Job Number: 720-2894-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7172

Method: 6010B Preparation: 3050B

LCS Lab Sample ID: LCS 720-7172/2-A

Client Matrix:

Solid

Dilution: Date Analyzed: 1.0

03/31/2006 1330

Date Prepared:

03/31/2006 0635

Analysis Batch: 720-7187

Prep Batch: 720-7172

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

50 mL

LCSD Lab Sample ID: LCSD 720-7172/3-A

Client Matrix: Dilution:

Zinc

Solid 1.0

Date Analyzed: Date Prepared: 03/31/2006 1334 03/31/2006 0635

Analysis Batch: 720-7187 Prep Batch: 720-7172

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

	<u>% I</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Antimony	100	103	80 - 120	3	20	htti till samt ett ett en statister och stat	CONCESSION STREET, STR
Arsenic	101	104	80 - 120	3	20		
Barium	99	102	80 - 120	3	20		
Beryllium	100	103	80 - 120	3	20		
Cadmium	99	102	80 - 120	3	20		
Chromium	99	102	80 - 120	3	20		
Cobalt	99	102	80 - 120	3	20		
Copper	100	103	80 - 120	3	20		
Lead	98	101	80 - 120	2	20		
Molybdenum	95	99	80 - 120	4	20		
Nickel	99	102	80 - 120	3	20		
Selenium	101	104	80 - 120	3	20		
Silver	99	102	80 - 120	3	20		
Thallium	99	102	80 - 120	3	20		
Vanadium	100	103	80 - 120	3	20		

103

80 - 120

3

20

. 99

Client: Pacific States Environmental

Job Number: 720-2894-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7172

Method: 6010B Preparation: 3050B

MS Lab Sample ID:

720-2874-A-1-B MS

Analysis Batch: 720-7187

Client Matrix:

Solid

Prep Batch: 720-7172

Instrument ID: Varian ICP

Dilution:

10

Lab File ID:

N/A Initial Weight/Volume: 1.00 g

Date Analyzed: Date Prepared: 03/31/2006 1355 03/31/2006 0635

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-2874-A-1-C MSD

Analysis Batch: 720-7187

Instrument ID: Varian ICP

Client Matrix:

Solid

Lab File ID: N/A

Dilution:

Prep Batch: 720-7172

Initial Weight/Volume: 1.01 g Final Weight/Volume: 50 mL

Date Analyzed: Date Prepared:

03/31/2006 1359

03/31/2006 0635

	<u>Rec.</u>					
MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
72	61	75 - 125	18	20	*	*
88	80	75 - 125	10	20		
4610	4010	75 - 125	9	20	4	4
107	100	75 - 125	7	20		
106	99	75 - 125	7	20		
100	95	75 - 125	5	20		
104	98	75 - 125	8	20		
4	-15	75 - 125	4	20	4	4
100	76	75 - 125	11	20		
95	88	75 - 125	8	20		
101	97	75 - 125	4	20		
91	86	75 - 125	6	20		
93	91	75 - 125	3	20		
103	98	75 - 125	7	20		
√104	98	75 - 125	7	20		
110	95	75 - 125	8	20		
	72 88 4610 107 106 100 104 4 100 95 101 91 93 103	MS MSD  72 61  88 80  4610 4010  107 100  106 99  100 95  104 98  4 -15  100 76  95 88  101 97  91 86  93 91  103 98  104 98	MS         MSD         Limit           72         61         75 - 125           88         80         75 - 125           4610         4010         75 - 125           107         100         75 - 125           106         99         75 - 125           100         95         75 - 125           104         98         75 - 125           100         76         75 - 125           95         88         75 - 125           95         88         75 - 125           91         97         75 - 125           93         91         75 - 125           103         98         75 - 125           104         98         75 - 125	MS         MSD         Limit         RPD           72         61         75 - 125         18           88         80         75 - 125         10           4610         4010         75 - 125         9           107         100         75 - 125         7           106         99         75 - 125         7           100         95         75 - 125         5           104         98         75 - 125         8           4         -15         75 - 125         4           100         76         75 - 125         11           95         88         75 - 125         8           101         97         75 - 125         4           91         86         75 - 125         6           93         91         75 - 125         7           103         98         75 - 125         7           104         98         75 - 125         7	MS         MSD         Limit         RPD         RPD Limit           72         61         75 - 125         18         20           88         80         75 - 125         10         20           4610         4010         75 - 125         9         20           107         100         75 - 125         7         20           106         99         75 - 125         7         20           100         95         75 - 125         5         20           104         98         75 - 125         8         20           4         -15         75 - 125         4         20           100         76         75 - 125         11         20           95         88         75 - 125         8         20           101         97         75 - 125         4         20           91         86         75 - 125         4         20           93         91         75 - 125         3         20           103         98         75 - 125         7         20           104         98         75 - 125         7         20	MS         MSD         Limit         RPD         RPD Limit         MS Qual           72         61         75 - 125         18         20         *           88         80         75 - 125         10         20           4610         4010         75 - 125         9         20         4           107         100         75 - 125         7         20         4         7         20         7         20         4         7         20         7         20         7         20         7

Client: Pacific States Environmental

Job Number: 720-2894-1

Method Blank - Batch: 720-7210

Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-7210/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 04/03/2006 1329 Date Prepared: 04/03/2006 0808 Analysis Batch: 720-7234 Prep Batch: 720-7210

Units: mg/Kg

Instrument ID: FIMS 100

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Analyte

Result

Qual

RL

Mercury

ND

0.050

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-7210

Method: 7471A Preparation: 7471A

LCS Lab Sample ID: LCS 720-7210/2-A

Client Matrix:

Solid

Dilution:

1.0

Date Analyzed: Date Prepared: 04/03/2006 1330

04/03/2006 0808

Analysis Batch: 720-7234 Prep Batch: 720-7210

Units: mg/Kg

Instrument ID: FIMS 100

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

50 mL

LCSD Lab Sample ID: LCSD 720-7210/3-B

Client Matrix:

Solid

Dilution:

1.0

Date Analyzed: 04/03/2006 1332

Date Prepared:

04/03/2006 0808

Analysis Batch: 720-7234

Prep Batch: 720-7210

Units: mg/Kg

Instrument ID: FIMS 100

Lab File ID: N/A

Initial Weight/Volume: 1 g

Final Weight/Volume: 50 mL

Analyte

LCS

**LCSD** 

Limit

RPD

2.

RPD Limit LCS Qual LCSD Qual

Mercury . 105 103

85 - 115

20

Client: Pacific States Environmental

Job Number: 720-2894-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-7210

Method: 7471A

MS Lab Sample ID:

720-2896-A-1-C MS

Preparation: 7471A

Analysis Batch: 720-7234

Prep Batch: 720-7210

Instrument ID: FIMS 100

Client Matrix:

Solid

Dilution:

1.0

Lab File ID: N/A

Date Analyzed:

04/03/2006 1344

Initial Weight/Volume: 1.02 g Final Weight/Volume: 50 mL

MS Qual MSD Qual

Date Prepared:

04/03/2006 0808

Analysis Batch: 720-7234

Instrument ID: FIMS 100

Client Matrix:

Solid

Lab File ID:

N/A

Dilution:

1.0

MSD Lab Sample ID: 720-2896-A-1-D MSD

Prep Batch: 720-7210

Initial Weight/Volume: 1.00 g

Date Analyzed: Date Prepared:

04/03/2006 1345 04/03/2006 0808 Final Weight/Volume: 50 mL

Analyte MS MSD Limit RPD **RPD Limit** Mercury 45 33 85 - 115 9 20

92 San Francisco Chain of Custody 1220 Quarry Lane • Pleasanton CA 94566-4756 Phone: (925) 484-1919 • Fax: (925) 484-1096

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#### LOGIN SAMPLE RECEIPT CHECK LIST

Client: Pacific States Environmental

Job Number: 720-2894-1

Login Number: 2894

Question	T/F/NA	Comment	
Radioactivity either was not measured or, if measured, is at or below background	NA		
The cooler's custody seal, if present, is intact.	NA	•	,
The cooler or samples do not appear to have been compromised or tampered with.	True		
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True	•	
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
There are no discrepancies between the sample IDs on the containers and the COC.	True		
Samples are received within Holding Time.	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True		
If necessary, staff have been informed of any short hold time or quick TAT needs	True		
Multiphasic samples are not present.	True		· ·
Samples do not require splitting or compositing.	True		



### **Attachment 3. Non-Hazardous Waste Manifest**

# ☐ Keller Canyon Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

## Coffin Butte

28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826

# Ox Mountain Sanitary Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

# Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

# Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

#### **NON-HAZARDOUS WASTE MANIFEST**

GENERATOR	WASTE ACCEPTANCE NO.								
Pacific Gas & Electric Company MAILING ADDRESS	504 -4 -45 EW								
77 Beale Street, Mail Stop B244	<del>-</del> 7135								
CITY, STATE, ZIP	REQUIRE	D PERSO	DNAL PROTE	CTIVE E	QUIPMENT				
San Francisco, CA 94105 PHONE	□ GLOVES	□ GOG	GLES GRESP	TRATOR	¥ □ HARD HAT				
(415) 973,8525	☐ TY-VEK	SAFE	TY VEST						
CONTACT PERSON	SPECIAL HANDLING PROCEDURES:								
Daniel Sanchez SIGNATURE OF AUTHORIZED AGENT / TITLE	,								
1 dents of Pa c	DATE								
* // /Enganantal Constant						,			
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, it described, classified and packaged, and is in proper condition for transportation arcorregulations; AND, if the weste is a treatment residue of a previously restricted has	in the second of								
subject dance with the requirements of 40 CFR Part 268 and is no longer a hazardous with	n treated in	RECEIVING FACILITY							
40 CFR Part 261. WASTE TYPE:	enter the second								
© DISPOSAL © SLUDGE									
© CONSTRUCTION © WOOD	and the same of th								
D DEBRIS D OTHER D SPECIAL WASTE									
GENERATING FACILITY			vina Poje (e statutation and a						
408 Linda Ayenue PIEDMO	NT								
TRANSPORTER		NOTES: V		CENSE NUMBER	TRI	UCK NUMBER			
ADDRESS  ADDRESS				7/1//					
CITY, STATE, ZIP		mana quanto de la constanción							
Windsor, CA 95492 PHONE	END DUI	MP	BOTTOM DU	JMP	TRANSFER				
(707) 838-1407 SIGNATURE OF AUTHORIZED AGENT OR DRIVER	DATE	2011 05	E(C)	FLATRED	1441				
SIGNATURE OF AUTHORIZED AGENT ON DRIVER	DATE	ROLL-OFF(S)		FLAT-BED	VAN	DRUMS			
* ptt fer	6/12/0-				haze.	lece <sup>1</sup>			
		CUBIC YAR	DS	4					
I hereby certify that the above named material	15 Va								
accepted and to the best of my knowledge the is true and accurate.	DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)								
is true and accurate.		The second secon		DISPOSE		OTHER			
		u soil							
REMARKS	O CONSTR	UCTION							
FACILITY TICKET NUMBER	DEBRIS  DI NON-FRI	ARIE							
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SCHEDULING MUST BE MADE PRIORTO 3:00 P.M. THE DAY PRIORTO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.