

Alameda County



MAR 14 2014

Environmental Health

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Environmental Management

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Anke Neumann, Environmental Scientist
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3401 Crow Canyon Rd., MS 155-D
San Ramon, CA 94583

Ms. Karel Detterman, PG
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

March 12, 2014

RE: Site Investigation Results and Closure Request
Pacific Gas & Electric Company
Transformer Non-PCB Mineral Oil Release
3160 Grove Ave., Castro Valley, CA 94946-6706

Dear Ms. Karel Detterman;

Pacific Gas & Electric Company (PG&E) has prepared this report to present the results of excavation and sampling activities performed in response to a subsurface mineral oil release from a PG&E transformer located at 3160 Grove Ave. in Castro Valley, CA and to request case closure for the site.

Occurring at an unknown date and time, a new transformer, staged inside the Castro Valley Substation, was vandalized. The vandals moved the transformer near a transmission tower (Photos 1 and 2) and dismantled it, resulting in the release of 12 gallons of mineral oil release onto grass and soil.

On January 7, 2014, the release was discovered by Robert Weston, Sr. Hazardous Materials Specialist with Alameda County Environmental Health during an inspection of a neighboring property owned by Verizon. He notified PG&E of the vandalism and also emailed a photo (Photo 1). On January 7, 2014, PG&E confirmed that oil did not contain PCBs and arranged a cleanup by a contractor (PSC) the following day.

OES was notified of the release per Agency request at 11:51 a.m. on January 8, 2014. The notification number is 14-0130.

PSC began cleanup of the location on January 8, 2014, cleared a grassy area, and excavated a 4' x 7' area to a depth of 6". Five drums of oily solids were generated and taken to Hayward SC for storage and disposal. PG&E directed further soil removal based on visual and odor cues. Excavation was completed at a 5.5' x 7' area to a depth of 2' on January 9, 2014 (Attachment 3 – Scaled Site Map). Attachment 2 provides an aerial view of the excavation location. Ten drums of oily solids were removed from the site and taken to the Hayward Service Center for storage and subsequent disposal. The 15 drums were shipped on a Non-Hazardous Waste Manifest on January 14, 2014 (Attachment 4). A sample was collected on all four side walls and at the center of the floor of excavation (Photo 3 and Photo 4).

Ms. Anke Neumann spoke to Ms. Detterman, PG, Hazardous Materials Specialist, Alameda County Environmental Health on January 10, 2014 to detail the sampling parameters. It was agreed that all five samples would be analyzed for TPH as mineral oil. Additional information such as MSDS Mineral Oil, depiction of the Non-PCB sticker, and manufacturer label were emailed to the agency the same day.

An additional request was received on January 13, 2014 by Ms. Detterman to analyze one of the samples for naphthalene and to submit a closure letter request. Samples were taken to Test America on January 13, 2014. All soil samples were tested for EPA Method 8015B (TPH as mineral oil), and one sample was additionally tested for EPA 8260B for naphthalene. Sample results for TPH – Mineral Oil and Naphthalene were received on January 14, 2104. Please see the attached laboratory report from Test America (Attachment 1).

The concentrations of TPH – Mineral Oil and Naphthalene are shown in the table below:

Summary					
Reporting Lab	Test America	Test America	Test America	Test America	Test America
Location Description	3160 Grove Ave., Castro Valley	3160 Grove Ave., Castro Valley	3160 Grove Ave., Castro Valley	3160 Grove Ave., Castro Valley	3160 Grove Ave., Castro Valley
Sample ID	720-54842-1	720-54842-2	720-54842-3	720-54842-4	720-54842-5
Date Sample taken	1-9-14	1-9-14	1-9-14	1-9-14	1-9-14
Mineral Oil	N/D	310 mg/kg	7800 mg/kg	430 mg/kg	N/D
Naphthalene	-	-	N/D	-	-

The concentration of TPH as mineral oil were non-detect (ND) in sample 720-54842-1 and sample 720-54842-5. The concentration of TPH as mineral oil were 310 mg/kg in sample 720-54842-2, 7800 mg/kg in sample 720-54842-3 (bottom of excavation) and 430 mg/kg in sample 720-54842-4. The concentration of naphthalene in sample 720-54842-3 was ND.

There are currently no federal or California screening levels available for the specific mineral oil used in PG&E transformers. However PG&E has developed a Soil Management Plan for Substations that specifically addresses mineral oil and other common impacts in substations. This document was prepared with DTSC collaboration and the final version has received SFBRWQCB concurrence.

Note that during excavation, substation grounding cable was unearthed and damaged. Considering that the excavation was near the footing of a tower, there was concern regarding stability of the tower footing. The second photo shows the proximity of the dismantled transformer and subsequent spill to the tower footing. The additional 2 photos document the location after cleanup and show sample locations.

Electrical substations are restricted facilities with fencing, controlled entry, and covered surfaces that limit the potential for public entry and reduce the opportunity for direct contact with soil. Land use at the majority of PG&E substations is not anticipated to change in the near future. Therefore, these substation screening levels were established to generally address potential occupational exposure to contaminated soil during subsurface activities. Occupational exposure is defined as typical work activities performed within PG&E substations by PG&E-trained and informed workers (including contractors) under PG&E worker safety policies. The substation screening levels were not intended for residential or unrestricted use applications. Any areas outside of the occupational setting will require further evaluation.

The screening levels for the above referenced Plan are as follows:

- Arsenic: 200 mg/kg
- Lead: 600 mg/kg
- PCBs: 25 mg/kg
- Mineral oil: 16,000 mg/kg

The mineral oil used in PG&E substation electrical devices is a highly refined, technical-grade petroleum product that must meet the ASTM International (ASTM) Mineral Oil Production Standard. The ASTM Mineral Oil Production Standard requires removal of polar and aromatic compounds for proper performance of the oil. This refining process results in mineral oil with virtually no volatile organic compounds (VOCs) or polycyclic aromatic hydrocarbons (PAHs). VOCs such as benzene, toluene, ethyl benzene, and xylenes and PAHs are components of naturally occurring total petroleum hydrocarbons (TPH), but these contaminants are removed during the mineral oil refining process. Field and laboratory data confirm this (Tetra Tech, Inc. 1998).

The mineral oil used by PG&E and food-grade mineral oil is comparable. Similar to the food-grade mineral oils (light mineral oil, mineral oil, and white mineral oil) defined by the U.S. Food and Drug Administration (Title 21 CFR 172.878), Committee on Food Chemicals Codex Food and Nutrition Board (2004), and/or the U.S. Pharmacopeia National Formulary (2008), the mineral oil used by PG&E has a boiling point above 200 degrees Fahrenheit, is insoluble in water and in alcohol, and is readily carbonizable.

Ann-Marie Cardoso and Anke Neumann spoke to Karel Detterman with Alameda County Environmental Health on January 30, 2014. Concerns regarding the dangers of work around the transmission tower and the excavation location were presented. Additionally, analytical results were provided over the phone. The inspector approved the proposed additional one foot excavation and requested that the additional excavation activities and post sampling results be included in a closure letter.

Continuing the effort at the site, PSC completed another 12 inches of excavation on February 18, 2014 at the site. Approximately 6 drums were generated during the excavation event. These drums were taken to Hayward SC for storage and subsequent disposal as non-hazardous waste.

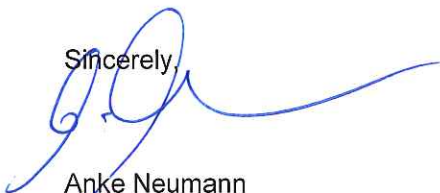
A soil sample was taken at the bottom of the excavation and analyzed for EPA Method 8015B (TPH as mineral oil). Please see the attached laboratory report from Torrent Laboratory (Attachment 1). The concentration of TPH as mineral oil were 170 mg/kg in sample 1402093-001A.

There is no shallow groundwater at the site. Groundwater is encountered at approximately 43 feet.

The excavation was back filled with clean soil.

Based on the conditions at the site, where non-toxic mineral oil impacts are confined to a limited area, where there is limited potential for exposure to the public, and which cannot be further excavated because of the proximity to the transmission tower footing, PG&E requests no further action and case closure for this site.

Sincerely,



Anke Neumann
Environmental Scientist
Pacific Gas & Electric Company
Office: 925-415-6302
Cell: 925-712-7112

Photo 1



Photo 2



Photo 3

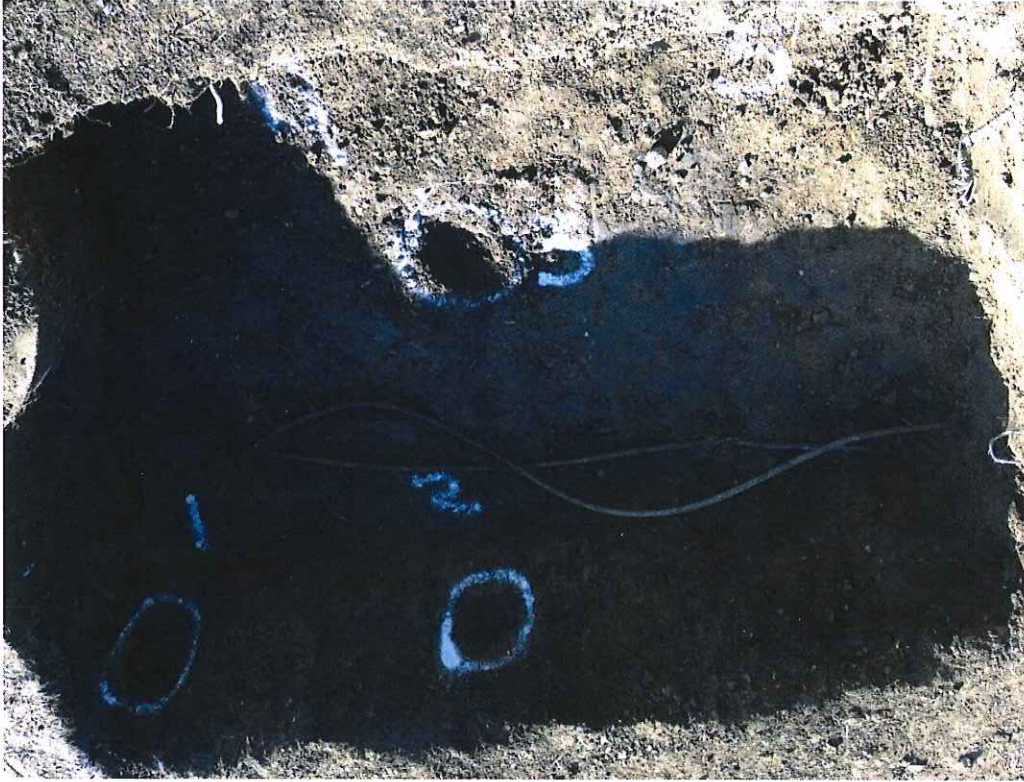


Photo 4



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-54842-1

Client Project/Site: Castro Valley Sub Spill

For:

PG&E Corporation

24300 Clawiter Road

Hayward, California 94545

Attn: Ms. Anne Marie Cardoso



Authorized for release by:

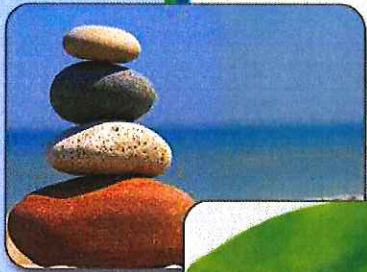
1/14/2014 3:03:27 PM

Dimple Sharma, Senior Project Manager

(925)484-1919

dimple.sharma@testamericainc.com

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LINKS

Review your project results through
Total Access

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
	Quality Control
	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Job ID: 720-54842-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54842-1

Comments

No additional comments.

Receipt

The samples were received on 1/13/2014 10:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.8° C.

Except:

All samples received out of temperature requirement. No ice.

GC Semi VOA

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: CASTRO VALLEY SUB 3 (720-54842-3), CASTRO VALLEY SUB 2 (720-54842-2), CASTRO VALLEY SUB 4 (720-54842-4).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

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Detection Summary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Client Sample ID: CASTRO VALLEY SUB 1

Lab Sample ID: 720-54842-1

No Detections.

Client Sample ID: CASTRO VALLEY SUB 2

Lab Sample ID: 720-54842-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mineral oil	310		250		mg/Kg	5		8015B	Total/NA

Client Sample ID: CASTRO VALLEY SUB 3

Lab Sample ID: 720-54842-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mineral oil	7800		5000		mg/Kg	100		8015B	Total/NA

Client Sample ID: CASTRO VALLEY SUB 4

Lab Sample ID: 720-54842-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mineral oil	430		250		mg/Kg	5		8015B	Total/NA

Client Sample ID: CASTRO VALLEY SUB 5

Lab Sample ID: 720-54842-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



Client Sample Results

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Client Sample ID: CASTRO VALLEY SUB 1

Lab Sample ID: 720-54842-1

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mineral oil	ND		50		mg/Kg		01/13/14 11:27	01/14/14 10:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	82		40 - 130				01/13/14 11:27	01/14/14 10:38	1



Client Sample Results

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Client Sample ID: CASTRO VALLEY SUB 2

Lab Sample ID: 720-54842-2

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mineral oil	310		250		mg/Kg		01/13/14 11:27	01/14/14 11:36	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130				01/13/14 11:27	01/14/14 11:36	5

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Client Sample Results

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Client Sample ID: CASTRO VALLEY SUB 3

Lab Sample ID: 720-54842-3

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mineral oil	7800		5000		mg/Kg		01/13/14 11:27	01/13/14 21:16	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	XD	40 - 130				01/13/14 11:27	01/13/14 21:16	100

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Client Sample Results

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Client Sample ID: CASTRO VALLEY SUB 4

Lab Sample ID: 720-54842-4

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mineral oil	430		250		mg/Kg		01/13/14 11:27	01/14/14 11:07	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130				01/13/14 11:27	01/14/14 11:07	5

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Client Sample Results

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Client Sample ID: CASTRO VALLEY SUB 5

Lab Sample ID: 720-54842-5

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mineral oil	ND		50		mg/Kg		01/13/14 11:27	01/13/14 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	88		40 - 130				01/13/14 11:27	01/13/14 18:20	1

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QC Sample Results

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

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Lab Sample ID: MB 720-151538/1-A
Matrix: Solid
Analysis Batch: 151547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151538

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mineral oil	ND		50		mg/Kg		01/13/14 09:04	01/13/14 23:41	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier							
p-Terphenyl	96		40 - 130			01/13/14 09:04	01/13/14 23:41	1	

Lab Sample ID: LCS 720-151538/2-A
Matrix: Solid
Analysis Batch: 151547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151538

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Diesel Range Organics [C10-C28]	83.2	76.3		mg/Kg		92	50 - 150
Surrogate	LCS LCS		Limits			%Rec	Limits
	%Recovery	Qualifier					
p-Terphenyl	113		40 - 130				

Lab Sample ID: LCSD 720-151538/3-A
Matrix: Solid
Analysis Batch: 151547

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 151538

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Diesel Range Organics [C10-C28]	83.1	81.4		mg/Kg		98	50 - 150	6	35
Surrogate	LCSD LCSD		Limits			%Rec	Limits		
	%Recovery	Qualifier							
p-Terphenyl	120		40 - 130						

QC Association Summary

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

GC Semi VOA

Prep Batch: 151538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54842-1	CASTRO VALLEY SUB 1	Total/NA	Solid	3546	
720-54842-2	CASTRO VALLEY SUB 2	Total/NA	Solid	3546	
720-54842-3	CASTRO VALLEY SUB 3	Total/NA	Solid	3546	
720-54842-4	CASTRO VALLEY SUB 4	Total/NA	Solid	3546	
720-54842-5	CASTRO VALLEY SUB 5	Total/NA	Solid	3546	
LCS 720-151538/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-151538/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-151538/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 151547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54842-3	CASTRO VALLEY SUB 3	Total/NA	Solid	8015B	151538
720-54842-5	CASTRO VALLEY SUB 5	Total/NA	Solid	8015B	151538
LCS 720-151538/2-A	Lab Control Sample	Total/NA	Solid	8015B	151538
LCSD 720-151538/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	151538
MB 720-151538/1-A	Method Blank	Total/NA	Solid	8015B	151538

Analysis Batch: 151607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54842-1	CASTRO VALLEY SUB 1	Total/NA	Solid	8015B	151538
720-54842-2	CASTRO VALLEY SUB 2	Total/NA	Solid	8015B	151538
720-54842-4	CASTRO VALLEY SUB 4	Total/NA	Solid	8015B	151538



Lab Chronicle

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Client Sample ID: CASTRO VALLEY SUB 1

Lab Sample ID: 720-54842-1

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151538	01/13/14 11:27	MRP	TAL PLS
Total/NA	Analysis	8015B		1	151607	01/14/14 10:38	DCH	TAL PLS

Client Sample ID: CASTRO VALLEY SUB 2

Lab Sample ID: 720-54842-2

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151538	01/13/14 11:27	MRP	TAL PLS
Total/NA	Analysis	8015B		5	151607	01/14/14 11:36	DCH	TAL PLS

Client Sample ID: CASTRO VALLEY SUB 3

Lab Sample ID: 720-54842-3

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151538	01/13/14 11:27	MRP	TAL PLS
Total/NA	Analysis	8015B		100	151547	01/13/14 21:16	DCH	TAL PLS

Client Sample ID: CASTRO VALLEY SUB 4

Lab Sample ID: 720-54842-4

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151538	01/13/14 11:27	MRP	TAL PLS
Total/NA	Analysis	8015B		5	151607	01/14/14 11:07	DCH	TAL PLS

Client Sample ID: CASTRO VALLEY SUB 5

Lab Sample ID: 720-54842-5

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151538	01/13/14 11:27	MRP	TAL PLS
Total/NA	Analysis	8015B		1	151547	01/13/14 18:20	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1



Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54842-1	CASTRO VALLEY SUB 1	Solid	01/09/14 13:15	01/13/14 10:35
720-54842-2	CASTRO VALLEY SUB 2	Solid	01/09/14 13:15	01/13/14 10:35
720-54842-3	CASTRO VALLEY SUB 3	Solid	01/09/14 13:15	01/13/14 10:35
720-54842-4	CASTRO VALLEY SUB 4	Solid	01/09/14 13:15	01/13/14 10:35
720-54842-5	CASTRO VALLEY SUB 5	Solid	01/09/14 13:15	01/13/14 10:35

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Login Sample Receipt Checklist

Client: PG&E Corporation

Job Number: 720-54842-1

Login Number: 54842

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	
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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54842-2
Client Project/Site: Castro Valley Sub Spill

For:
PG&E Corporation
24300 Clawiter Road
Hayward, California 94545

Attn: Ms. Anne Marie Cardoso



Authorized for release by:
1/15/2014 2:59:15 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project
results through
Total Access

Have a Question?

**Ask
The
Expert**

Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
EF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Pleasanton

Case Narrative

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

Job ID: 720-54842-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54842-2

Comments

No additional comments.

Receipt

The samples were received on 1/13/2014 10:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.8° C.

GC/MS VOA

Method 8260B: Internal standard response for the following sample exceeded the lower control limit: CASTRO VALLEY SUB 3 (720-54842-3). This is confirmed by reanalysis.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

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Detection Summary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

Client Sample ID: CASTRO VALLEY SUB 3

Lab Sample ID: 720-54842-3

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

Client Sample ID: CASTRO VALLEY SUB 3

Lab Sample ID: 720-54842-3

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	*	25		ug/Kg		01/15/14 11:00	01/15/14 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	80		45 - 131				01/15/14 11:00	01/15/14 12:49	1
1,2-Dichloroethane-d4 (Surr)	116		60 - 140				01/15/14 11:00	01/15/14 12:49	1
Toluene-d8 (Surr)	80		58 - 140				01/15/14 11:00	01/15/14 12:49	1

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QC Sample Results

Client: PG&E Corporation
 Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-151685/4
Matrix: Solid
Analysis Batch: 151685

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg			01/15/14 08:52	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131					01/15/14 08:52	1
1,2-Dichloroethane-d4 (Surr)	109		60 - 140					01/15/14 08:52	1
Toluene-d8 (Surr)	90		58 - 140					01/15/14 08:52	1

Lab Sample ID: LCS 720-151685/5
Matrix: Solid
Analysis Batch: 151685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	50.0	44.8		ug/Kg		90	60 - 147
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	101		45 - 131				
1,2-Dichloroethane-d4 (Surr)	105		60 - 140				
Toluene-d8 (Surr)	95		58 - 140				

Lab Sample ID: LCSD 720-151685/6
Matrix: Solid
Analysis Batch: 151685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	50.0	45.5		ug/Kg		91	60 - 147	2	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	98		45 - 131						
1,2-Dichloroethane-d4 (Surr)	104		60 - 140						
Toluene-d8 (Surr)	95		58 - 140						

TestAmerica Pleasanton



QC Association Summary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

GC/MS VOA

Analysis Batch: 151685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54842-3	CASTRO VALLEY SUB 3	Total/NA	Solid	8260B/CA_LUFT MS	151704
LCS 720-151685/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-151685/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-151685/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 151704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54842-3	CASTRO VALLEY SUB 3	Total/NA	Solid	5030B	

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Lab Chronicle

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

Client Sample ID: CASTRO VALLEY SUB 3

Lab Sample ID: 720-54842-3

Date Collected: 01/09/14 13:15

Matrix: Solid

Date Received: 01/13/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			151704	01/15/14 11:00	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	151685	01/15/14 12:49	PDR	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Certification Summary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

Laboratory: TestAmerica Pleasanton

certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

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Method Summary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: PG&E Corporation
Project/Site: Castro Valley Sub Spill

TestAmerica Job ID: 720-54842-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54842-3	CASTRO VALLEY SUB 3	Solid	01/09/14 13:15	01/13/14 10:35

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TestAmerica Pleasanton



PSC
1802 Shelton Dr
Hollister, California 95023
Tel: 800-321-1030
RE: A1

Work Order No.: 1402093

Dear Paul Morales:

Torrent Laboratory, Inc. received 1 sample(s) on February 18, 2014 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock
QA Officer

February 18, 2014

Date



Date: 2/18/2014

Client: PSC
Project: A1
Work Order: 1402093

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.



Sample Result Summary

Report prepared for: Paul Morales
PSC

Date Received: 02/18/14

Date Reported: 02/18/14

1402093-001

A1

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Mineral Oil	SW8015B	4	5.40	41	170	mg/Kg



SAMPLE RESULTS

Report prepared for: Paul Morales
PSC

Date Received: 02/18/14
Date Reported: 02/18/14

Client Sample ID:	A1	Lab Sample ID:	1402093-001A
Project Name/Location:	A1	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/18/14 / 10:30		
Tag Number:	A1		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Mineral Oil	SW8015B	2/18/14	02/18/14	4	5.40	41	170	x	mg/Kg	419274	10811
Pentacosane (S)	SW8015B	2/18/14	02/18/14	4	53.3	124	91.2		%	419274	10811

NOTE: x - Chromatographic pattern does not resemble typical mineral oil reference standard pattern but reported values is within mineral oil quantitation range.



MB Summary Report

Work Order:	1402093	Prep Method:	3546_TPH	Prep Date:	02/18/14	Prep Batch:	10811
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	02/18/14	Analytical Batch:	419274
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.575	2.0	ND	
TPH as Mineral Oil	1.35	10	ND	
TPH as Motor Oil	1.4	10	2.4	
Pentacosane (S)			95.7	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1402093	Prep Method:	3546_TPH	Prep Date:	02/18/14	Prep Batch:	10811
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	02/18/14	Analytical Batch:	419274
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.57	2.0	ND	25	73.0	75.0	2.65	50.8 - 111	30	
Pentacosane (S)			ND	100	98.3	97.8		61.5 - 133		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg.m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H - Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J - Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R - The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S - Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: PSC

Project Name: A1

Work Order No.: 1402093

Date and Time Received: 2/18/2014 11:38

Received By: mj

Physically Logged By: ng

Checklist Completed By: ng

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? No Temperature: 17 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: na pH Adjusted by: na



Login Summary Report

Client ID: TL5372 PSC

Project Name: A1

Project # :

Report Due Date: 2/18/2014

Comments: Please call Paul Morales with results at 408-595-6241. Also email results to Jesus.Saucedo@pscnow.com.

Work Order # : 1402093

QC Level:

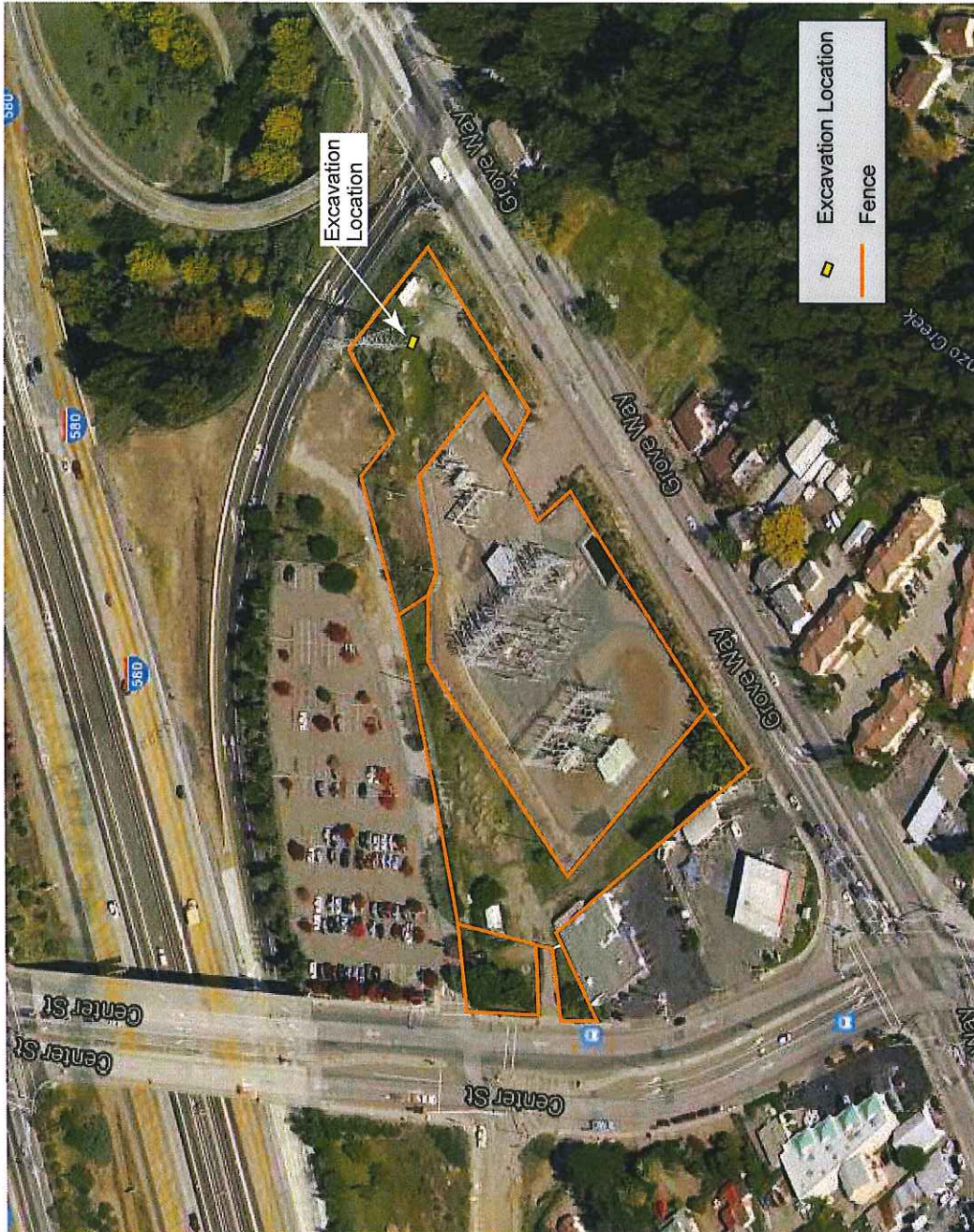
TAT Requested: Same Day:200

Date Received: 2/18/2014

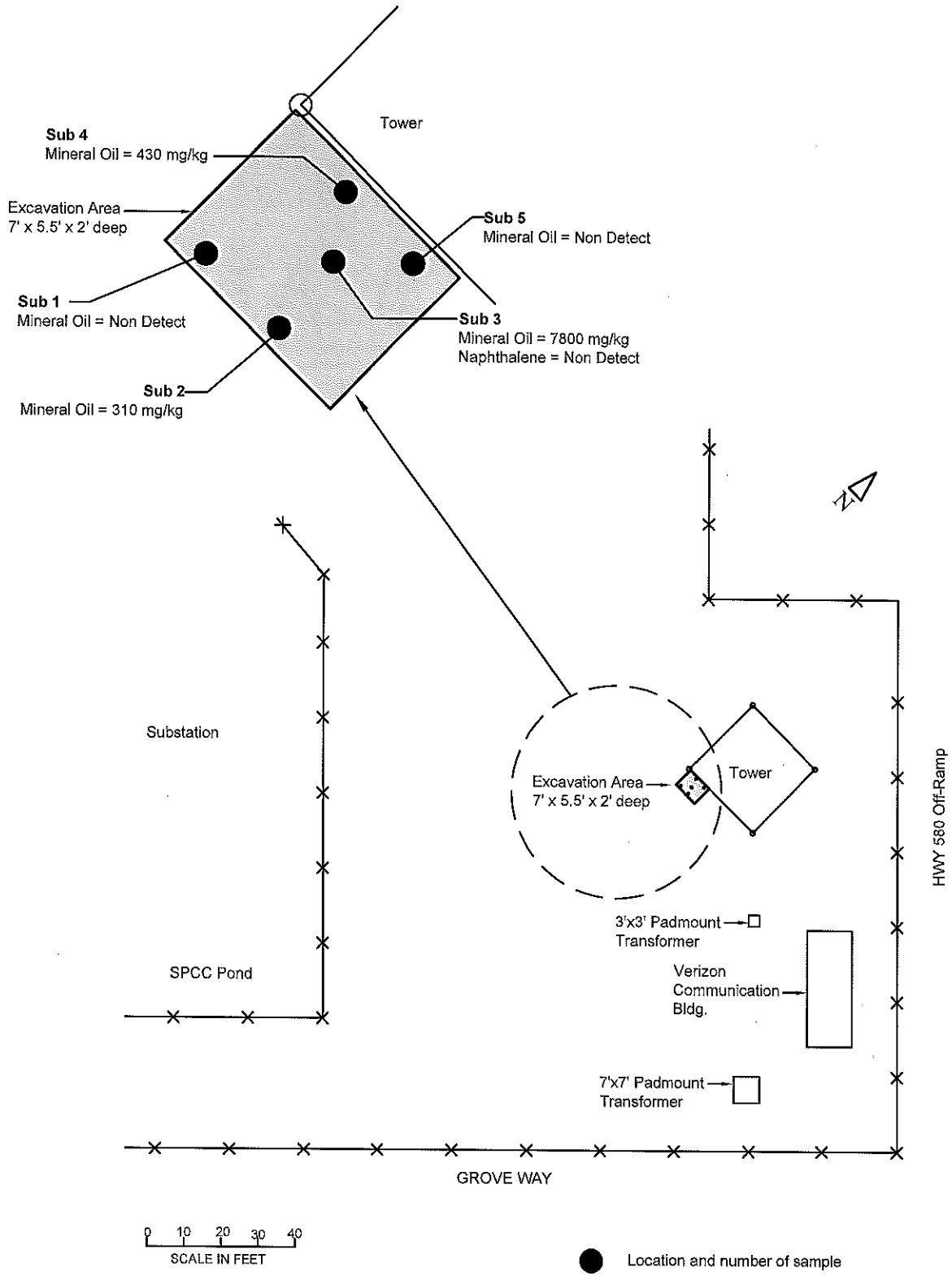
Time Received: 11:38

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1402093-001A	A1	02/18/14 10:30	Soil	08/17/14			S_TEPH	

Sample Note: RUSH same day!!! TPH mineral oil.



Attachment 2. Aerial view of excavation location



Attachment 3. Locations of shallow soil confirmation samples taken at Castro Valley Substation non-PCB transformer oil release

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAD 981388036		Manifest Document No. ShiP 09800-1		2. Page 1 of 1	
3. Generator's Name and Mailing Address PGE - Manifest PO Box 7640 San Francisco CA 94120		Hayward Service Center 24300 CLAUGHTER ROAD Hayward CA 94545					
4. Generator's Phone ()		(510) 784-3208					
5. Transporter 1 Company Name Philip West Industrial Services		6. US EPA ID Number CAR 000177527		A. State Transporter's I			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (800) 321-1030			
9. Designated Facility Name and Site Address GEM OF Rancho Cordova, LLC 11855 White Rock Road Rancho Cordova CA 95742		10. US EPA ID Number CAD 986884183		C. State Transporter's II			
11. WASTE DESCRIPTION				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone (916) 351-0980			
		Containers		13. Total Quantity		14. Unit Wt/Vol.	
a. NON HAZARDOUS Solid (soil, Rock)		No. Type		6000		P	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above 11A) profile # 492207 15x55		H. Handling Codes for Wastes Listed Above					
CLEAN UP SITE ADDRESS 3160 GROVE AVE, Casho Valley							
15. Special Handling Instructions and Additional Information WOTV PROTECTIVE clothing and EYEWEAR 24 Emergency CONTACT (877) 577-2669							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Chris Ignacero		Signature <i>[Signature]</i>		Date Month Day Year 01 14 14			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Juan Garcia		Signature <i>[Signature]</i>		Date Month Day Year 01 14 14	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name		Signature		Date Month Day Year			

GENERATOR

TRANSPORTER

FACILITY

Y



