

Khatri, Paresh, Env. Health

From: Mehrdad Javaher [mehrdad@endpoint-inc.com]
Sent: Friday, April 02, 2010 7:14 PM
To: Chan, Barney, Env. Health
Cc: Khatri, Paresh, Env. Health; TianaCJenkins@aol.com
Subject: [Fwd: 2960 Castro Valley Blvd., Castro Valley, CA]
Attachments: Alameda County Health letter 10-21-09.pdf; Laboratory Analytical Results-Castro Valley.pdf

Hi Barney-

As the consultant of record for the above-referenced (and for Mr. Gabriel Chiu and his property manager, Ms. Tiana Jenkins), this email is in response to your most recent letter to Mr. Chiu dated March 26th, 2010. Your letter is related to IDW disposal at the above referenced site, wherein you refer to a lack of response on Mr. Chiu's part to your original letter dated October 21, 2009, requesting information regarding a 5-gallon bucket of IDW soil from a recent investigation at the site. However, on Mr. Chiu's behalf, we did respond to your October 21, 2009 letter via the November 4, 2009 email forwarded below. As indicated in that email response, which also included Mr. Paresh Khatri, the case officer for this site, we provided information related to the disposal of the 5-gallon bucket of soil, including providing the soil analytical results used to profile the soil as non-hazardous waste (see attached lab report which was included in our November 4th, email response). In short, the soil analytical results yielded non-detect values for VOCs and non-hazardous levels of lead, resulting in a corresponding disposal by our contractor, Asbury Environmental. Please also note that the November 4th, 2009 email concluded with a note asking you to notify us if any additional information is required, to which we did not receive any response.

As an aside, I also noticed that in your most recent letter of March 26th, 2010, you now refer to two 5-gallon buckets of soil IDW; yet, in your original October 21, 2009 letter, you refer to a single 5-gallon bucket of IDW soil. Indeed, we only generated and disposed of one (1) 5-gallon bucket of IDW soils, generated from drilling of a single shallow boring. Worth noting is that both the soil and grab groundwater samples from this boring were non-detect for VOCs.

With the above information in mind, please let me know if you need any additional information regarding the disposal of the single 5-gallon bucket of non-hazardous IDW soils at the site.

Thank you.

Regards,

Mehrdad Javaher, Ph.D(c), MPH, NIH
Endpoint Consulting, Inc.
98 Battery Street, Suite 200
San Francisco, CA 94010
415-706-8935

----- Original Message -----

Subject: 2960 Castro Valley Blvd., Castro Valley, CA
Date: Wed, 04 Nov 2009 15:12:29 -0800
From: Mehrdad Javaher <mehrdad@endpoint-inc.com>
To: Khatri, Paresh, Env. Health <paresh.khatri@acgov.org>
CC: barney.chan@acgov.org, TianaCJenkins@aol.com

Hi Paresh (and Barney)-

Please find attached a letter from Barney Chan of the ACDEH, on which you were cc'd, regarding the status of a five-gallon container of investigation-derived soils from our recent soil vapor (6 shallow probes) and grab groundwater (one soil boring) investigation at the subject site, the results of which were recently submitted to you. The letter refers to the status of the 5-gallon container, as it has since been removed from the site.

In response to Barney's inquiry, please also find attached laboratory analytical results which confirm that the soils in the container were non-hazardous (see sample results for Sample ID CompS1 on Pages 4 and 10 of the attached lab reports) . Accordingly, we have contracted Asbury Environmental, whom has since removed the container from the site.

Please let me know if you or Barney need any additional information.

Thank you both.

Regards,
Mehrddad

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

October 21, 2009

Mr. Gabriel Chiu
10898 Inspiration Court
Dublin, CA 94568

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Facility: Adobe Shopping Center, 2960 Castro Valley Blvd., Castro Valley, CA 94546

Dear Mr. Chiu:

NOTICE TO COMPLY

On October 16, 2009, the referenced property, received a regulatory inspection by Alameda County Department of Environmental Health (ACDEH). At that time, a plastic five (5) gallon container of unknown contents was observed on the property outside the western dumpster area. The inspector sampled the contents and determined that the content was likely a solvent based stain or preservative and therefore, a hazardous waste. The container was placed inside the dumpster area and Ms. Tiana Jenkins, your property manager, was contacted. She was informed that this container should be properly disposed and its disposal documented. The container was observed to be gone from the dumpster area on October 19, 2009. In addition, another 5 gallon plastic container was found inside the same dumpster area. The container was labeled "Cairox, Potassium Permanganate" on the side and "HOLD-DO NOT PUT IN DUMPSTER 10-9-09 2966 Castro Valley Blvd. ENDPOINT CONSULTING Soil - GW-1 415 7068935" on the top. It appears this container may contain material from an investigation in this same general area of the storm drain and dumpster. Please be aware that this container is improperly labeled and could be mistaken as hazardous waste. You, as the property owner, are responsible for the characterization and disposal of the drums and contents. The following violation requires your immediate attention.

1. Title 22 CCR 66262.11, requires a person who generates waste to determine if a waste is hazardous waste and to then handle it appropriately.

Corrective Action: The contents of the containers must be determined, the containers must be properly labeled and if hazardous waste, the container(s) must be disposed of properly. Please provide our office documentation as to the contents and disposition of the containers within 30 days of this letter.

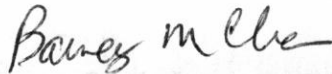
Currently, our records indicate that you have not demonstrated to us that the required corrective action has been satisfactorily completed. Be advised that failure to complete the listed corrective action and/or submit evidence of such to ACDEH may result in a re-inspection of your facility or potential enforcement.

Mr. Gabriel Chiu
Re: Adobe Shopping Center, Castro Valley
October 20, 2009
Page 2 of 2

You must provide appropriate evidence documenting that the noted corrections have been completed **within 30 calendar days of the date of this letter**. This information should be sent to the undersigned.

If you have already provided the requested evidence or have additional questions regarding your inspection or compliance requirement, please contact me at 510-567-6765.

Sincerely,



Barney M. Chan
Sr. Hazardous Materials Specialist

cc: files

S. Hugo, ACDEH, Manager
Ms. Tiana Jenkins, Marquis Properties, 12988 Hawkins Dr., San Ramon, CA 94583
P. Khatri, ACDEH, HMS
S. Seery, B. Chan, Sr. HMS



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
		Date Received: 10/05/09
	Client Contact: Mehrdad Javaher	Date Reported: 10/09/09
	Client P.O.:	Date Completed: 10/09/09

WorkOrder: 0910092

October 09, 2009

Dear Mehrdad:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **2960 Casro Valley**,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

0910092

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)

Report To: *Mehrdad Javaherian* Bill To: *Endpoint*
 Company: *Endpoint*
98 Battery St. # 200
San Francisco CA E-Mail: *m.javaherian@irm-consulting.com*
 Tele: *(510) 5935382* Fax: ()
 Project #: Project Name: *2960 Castro Valley*
 Project Location: *2960 Castro Valley Blvd, Castro Valley*
 Sampler Signature: *Jad*

Analysis Request										Other	Comments						
MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/R&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 (801B) / 8021 (BVOCs)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 62 (8026) (VOCs) <i>8010 List</i>	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAS)	CAM 17 Metals (200.7 / 206.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020) <i>16/19 6 day</i>	<i>7015 8000 8010 List</i>	Filter Samples for Metals analysis: Yes / No

X30

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
GW-1		10-5-09	1240PM	3	100	X					X	X					
SS-1			1020AM	1	5in.			X									X
SS-2			956AM					X									X
SV 1			1146AM					X									X
SV 3			1049AM					X									X
SV 4			1258PM					X									X
Comp 1			1229PM	1	L	X				X						X	

Relinquished By: *Jad* Date: *10-5-09* Time: *2:32PM* Received By: *Enviro-Tech SR*
 Relinquished By: *GW DO CONSULTING* Date: *10/5* Time: *15:31* Received By: *Dark Lab*
 Relinquished By: *Dark Lab* Date: *10/5* Time: Received By: *Dark Lab*

ICE/T: *1.4* COMMENTS:
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 091009 **A**

ClientCode: EPB

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Mehrdad Javaher
Endpoint
98 Battery Street, Suite 200
San Francisco, CA 94111
415-706-8935 FAX

Email: mehrdad@endpoint-inc.com
cc:
PO:
ProjectNo: 2960 Casro Valley

Bill to:

Accounts Payable
Endpoint
98 Battery Street, Suite 200
San Francisco, CA 94111
cage2usa@aol.com

Requested TAT: 5 days

Date Received: 10/05/2009

Date Add-On: 10/06/2009

Date Printed: 10/06/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
0910092-007	CompS1	Soil	10/5/2009 12:29	<input type="checkbox"/>	A													

Test Legend:

1	PBMS_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: 007 added for TTLC Pb 10/6/09 5d per email

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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Telephone: 877-252-9262 Fax: 925-252-9269

Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
		Date Received: 10/05/09
	Client Contact: Mehrdad Javaher	Date Extracted: 10/06/09
	Client P.O.:	Date Analyzed: 10/07/09

Lead by ICP-MS*

Extraction method: SW3050B

Analytical methods: 6020A

Work Order: 0910092

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
0910092-007A	CompS1	S	TOTAL	54	1	104	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TOTAL	0.5	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.



QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0910092

EPA Method 6020A		Extraction SW3050B					BatchID: 46260			Spiked Sample ID: 0910092-007A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	54	50	NR	NR	NR	10	99.8	107	7.09	75 - 125	20	75 - 125	20
%SS:	104	250	84	86	2.41	250	111	118	6.64	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 46260 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0910092-007A	10/05/09 12:29 PM	10/06/09	10/07/09 5:56 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not applicable to this method.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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Telephone: 877-252-9262 Fax: 925-252-9269

Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
		Date Received: 10/05/09
	Client Contact: Mehrdad Javaher	Date Reported: 10/09/09
	Client P.O.:	Date Completed: 10/09/09

WorkOrder: 0910092

October 09, 2009

Dear Mehrdad:

Enclosed within are:

- 1) The results of the **7** analyzed samples from your project: **2960 Casro Valley**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

0910092

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME
 GeoTracker EDF PDF Excel Write On (DW)
 RUSH 24 HR 48 HR 72 HR 5 DAY

Report To: Mehrdad Javehanian Bill To: Endpoint
 Company: Endpoint
98 Battery St. # 200
San Francisco CA E-Mail: mjavehanian@irm-
 Tele: (510) 5935382 Fax: () consolting.com
 Project #: Project Name: 2960 Castro Valley
 Project Location: 2960 Castro Valley Blvd. Castro Valley
 Sampler Signature: Joel M

Analysis Request										Other	Comments	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Filter Samples for Metals analysis: Yes / No
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

x30

SAMPLE ID	LOCATION Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
GW-1		10-5-09	1240PM	3	100	X					X	X						
SS-1			1020AM	1	500													
SS-2			956AM															
SV 1			1176AM															
SV 3			1049AM															
SV 4			1258PM															
Comp SI			1229PM	1	L	X						X						

Relinquished By: Joel M Date: 10-5-09 Time: 2:37PM Received By: Enviro-Tech SR
 Relinquished By: Enviro-Tech Services Date: 10/5 Time: 15:31 Received By: Dark Lab
 Relinquished By: Dark Lab Date: 10/5 Time: Received By: Dark Lab

ICE/P 1.0 COMMENTS:
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0910092

ClientCode: EPB

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Mehrdad Javaher
Endpoint
98 Battery Street, Suite 200
San Francisco, CA 94111
415-706-8935 FAX

Email: mehrdad@endpoint-inc.com
cc:
PO:
ProjectNo: 2960 Casro Valley

Bill to:

Accounts Payable
Endpoint
98 Battery Street, Suite 200
San Francisco, CA 94111
cage2usa@aol.com

Requested TAT: 5 days

Date Received: 10/05/2009

Date Printed: 10/05/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0910092-001	GW-1	Water	10/5/2009 12:40	<input type="checkbox"/>		A	A										
0910092-002	SS-1	Soil Vapor	10/5/2009 10:20	<input type="checkbox"/>				A									
0910092-003	SS-2	Soil Vapor	10/5/2009 9:56	<input type="checkbox"/>				A									
0910092-004	SV1	Soil Vapor	10/5/2009 11:16	<input type="checkbox"/>				A									
0910092-005	SV3	Soil Vapor	10/5/2009 10:49	<input type="checkbox"/>				A									
0910092-006	SV4	Soil Vapor	10/5/2009 12:38	<input type="checkbox"/>				A									
0910092-007	CompS1	Soil	10/5/2009 12:29	<input type="checkbox"/>	A												

Test Legend:

1	8010BMS_S	2	8010BMS_W	3	PREF REPORT	4	TO15-8010_SOIL(UG/M3)	5	
6		7		8		9		10	
11		12							

The following SampIDs: 002A, 003A, 004A, 005A, 006A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Endpoint** Date and Time Received: **10/5/2009 5:15:07 PM**
Project Name: **2960 Casro Valley** Checklist completed and reviewed by: **Ana Venegas**
WorkOrder N°: **0910092** Matrix Soil/Soil Vapor/Water Carrier: Derik Cartan (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Sample IDs noted by Client on COC? Yes No
Date and Time of collection noted by Client on COC? Yes No
Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
Shipping container/cooler in good condition? Yes No
Samples in proper containers/bottles? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
Container/Temp Blank temperature Cooler Temp: 1.6°C NA
Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
Sample labels checked for correct preservation? Yes No
Metal - pH acceptable upon receipt (pH<2)? Yes No NA
Samples Received on Ice? Yes No
(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted: Date contacted: Contacted by:

Comments:



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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
		Date Received: 10/05/09
	Client Contact: Mehrdad Javaher	Date Extracted: 10/05/09
	Client P.O.:	Date Analyzed 10/07/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0910092

Lab ID	0910092-007A				Reporting Limit for DF =1	
Client ID	CompS1					
Matrix	S				S	W
DF	1					

Compound	Concentration				mg/kg	µg/L
Bromodichloromethane	ND				0.005	NA
Bromoform	ND				0.005	NA
Bromomethane	ND				0.005	NA
Carbon Tetrachloride	ND				0.005	NA
Chlorobenzene	ND				0.005	NA
Chloroethane	ND				0.005	NA
Chloroform	ND				0.005	NA
Chloromethane	ND				0.005	NA
Dibromochloromethane	ND				0.005	NA
1,2-Dibromoethane (EDB)	ND				0.004	NA
1,2-Dichlorobenzene	ND				0.005	NA
1,3-Dichlorobenzene	ND				0.005	NA
1,4-Dichlorobenzene	ND				0.005	NA
Dichlorodifluoromethane	ND				0.005	NA
1,1-Dichloroethane	ND				0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND				0.004	NA
1,1-Dichloroethene	ND				0.005	NA
cis-1,2-Dichloroethene	ND				0.005	NA
trans-1,2-Dichloroethene	ND				0.005	NA
1,2-Dichloropropane	ND				0.005	NA
cis-1,3-Dichloropropene	ND				0.005	NA
trans-1,3-Dichloropropene	ND				0.005	NA
Freon 113	ND				0.1	NA
Methylene chloride	ND				0.005	NA
1,1,1,2-Tetrachloroethane	ND				0.005	NA
1,1,2,2-Tetrachloroethane	ND				0.005	NA
Tetrachloroethene	ND				0.005	NA
1,1,1-Trichloroethane	ND				0.005	NA
1,1,2-Trichloroethane	ND				0.005	NA
Trichloroethene	ND				0.005	NA
Trichlorofluoromethane	ND				0.005	NA
Vinyl Chloride	ND				0.005	NA

Surrogate Recoveries (%)

%SS1:	86			
%SS2:	112			
%SS3:	102			

Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.



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Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
		Date Received: 10/05/09
	Client Contact: Mehrdad Javaher	Date Extracted: 10/07/09
	Client P.O.:	Date Analyzed 10/07/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0910092

Lab ID	0910092-001A				Reporting Limit for DF =1	
Client ID	GW-1					
Matrix	W				S	W
DF	1					

Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	ND				NA	0.5
Bromoform	ND				NA	0.5
Bromomethane	ND				NA	0.5
Carbon Tetrachloride	ND				NA	0.5
Chlorobenzene	ND				NA	0.5
Chloroethane	ND				NA	0.5
Chloroform	ND				NA	0.5
Chloromethane	ND				NA	0.5
Dibromochloromethane	ND				NA	0.5
1,2-Dibromoethane (EDB)	ND				NA	0.5
1,2-Dichlorobenzene	ND				NA	0.5
1,3-Dichlorobenzene	ND				NA	0.5
1,4-Dichlorobenzene	ND				NA	0.5
Dichlorodifluoromethane	ND				NA	0.5
1,1-Dichloroethane	ND				NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND				NA	0.5
1,1-Dichloroethene	ND				NA	0.5
cis-1,2-Dichloroethene	ND				NA	0.5
trans-1,2-Dichloroethene	ND				NA	0.5
1,2-Dichloropropane	ND				NA	0.5
cis-1,3-Dichloropropene	ND				NA	0.5
trans-1,3-Dichloropropene	ND				NA	0.5
Freon 113	ND				NA	10
Methylene chloride	ND				NA	0.5
1,1,1,2-Tetrachloroethane	ND				NA	0.5
1,1,1,2,2-Tetrachloroethane	ND				NA	0.5
Tetrachloroethene	ND				NA	0.5
1,1,1-Trichloroethane	ND				NA	0.5
1,1,2-Trichloroethane	ND				NA	0.5
Trichloroethene	ND				NA	0.5
Trichlorofluoromethane	ND				NA	0.5
Vinyl Chloride	ND				NA	0.5

Surrogate Recoveries (%)

%SS1:	91			
%SS2:	100			
%SS3:	99			

Comments b1

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
	Client Contact: Mehrdad Javaher	Date Received: 10/05/09
	Client P.O.:	Date Extracted: 10/08/09
		Date Analyzed: 10/08/09

Halogenated Volatile Organic Compounds in $\mu\text{g}/\text{m}^3$ *

Extraction Method: TO15

Analytical Method: TO15

Work Order: 0910092

Lab ID	0910092-002A	0910092-003A	0910092-004A	0910092-005A	Reporting Limit for DF =1	
Client ID	SS-1	SS-2	SV1	SV3	Soil Vapor	W
Matrix	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor		
DF	1	1	1	1		
Initial Pressure (psia)	13.82	14.88	13.98	14.77		
Final Pressure (psia)	27.54	29.68	27.9	29.48		

Compound	Concentration				$\mu\text{g}/\text{m}^3$	ug/L
Bromodichloromethane	ND	ND	ND	ND	14	NA
Bromoform	ND	ND	ND	ND	21	NA
Bromomethane	ND	ND	ND	ND	7.9	NA
Carbon Tetrachloride	ND	ND	ND	ND	13	NA
Chlorobenzene	ND	ND	ND	ND	9.4	NA
Chloroethane	ND	ND	ND	ND	5.4	NA
Chloroform	ND	ND	ND	ND	9.9	NA
Chloromethane	ND	ND	ND	ND	4.2	NA
Dibromochloromethane	ND	ND	ND	ND	17	NA
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	16	NA
1,2-Dichlorobenzene	ND	ND	ND	ND	12	NA
1,3-Dichlorobenzene	ND	ND	ND	ND	12	NA
1,4-Dichlorobenzene	ND	ND	ND	ND	12	NA
Dichlorodifluoromethane	ND	ND	ND	ND	10	NA
1,1-Dichloroethane	ND	ND	ND	ND	8.2	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	8.2	NA
1,1-Dichloroethene	ND	ND	ND	ND	8.1	NA
cis-1,2-Dichloroethene	ND	ND	21	ND	8.1	NA
trans-1,2-Dichloroethene	ND	ND	ND	ND	8.1	NA
1,2-Dichloropropane	ND	ND	ND	ND	9.4	NA
cis-1,3-Dichloropropene	ND	ND	ND	ND	9.2	NA
trans-1,3-Dichloropropene	ND	ND	ND	ND	9.2	NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ND	ND	14	NA
Freon 113	ND	ND	ND	ND	16	NA
Methylene chloride	ND	ND	ND	ND	7.1	NA
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	14	NA
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	14	NA
Tetrachloroethene	900	1500	3000	1200	14	NA
1,2,4-Trichlorobenzene	ND	ND	ND	ND	15	NA
1,1,1-Trichloroethane	ND	ND	ND	ND	11	NA
1,1,2-Trichloroethane	ND	ND	ND	ND	11	NA
Trichloroethene	ND	ND	800	ND	11	NA
Trichlorofluoromethane	ND	ND	ND	ND	11	NA
Vinyl Chloride	ND	ND	ND	ND	5.2	NA

Surrogate Recoveries (%)

%SS1:	96	97	99	99	
%SS2:	101	102	105	104	
%SS3:	103	110	107	107	

Comments

*vapor samples are reported in $\mu\text{g}/\text{m}^3$.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.



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Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
	Client Contact: Mehrdad Javaher	Date Received: 10/05/09
	Client P.O.:	Date Extracted: 10/08/09
		Date Analyzed: 10/08/09

Halogenated Volatile Organic Compounds in µg/m³*

Extraction Method: TO15

Analytical Method: TO15

Work Order: 0910092

Lab ID	0910092-006A				Reporting Limit for DF =1	
Client ID	SV4					
Matrix	Soil Vapor					
DF	1					
Initial Pressure (psia)	14.9				Soil Vapor	W
Final Pressure (psia)	29.75					

Compound	Concentration				µg/m ³	ug/L
Bromodichloromethane	ND				14	NA
Bromoform	ND				21	NA
Bromomethane	ND				7.9	NA
Carbon Tetrachloride	ND				13	NA
Chlorobenzene	ND				9.4	NA
Chloroethane	ND				5.4	NA
Chloroform	ND				9.9	NA
Chloromethane	ND				4.2	NA
Dibromochloromethane	ND				17	NA
1,2-Dibromoethane (EDB)	ND				16	NA
1,2-Dichlorobenzene	ND				12	NA
1,3-Dichlorobenzene	ND				12	NA
1,4-Dichlorobenzene	ND				12	NA
Dichlorodifluoromethane	ND				10	NA
1,1-Dichloroethane	ND				8.2	NA
1,2-Dichloroethane (1,2-DCA)	ND				8.2	NA
1,1-Dichloroethene	ND				8.1	NA
cis-1,2-Dichloroethene	ND				8.1	NA
trans-1,2-Dichloroethene	ND				8.1	NA
1,2-Dichloropropane	ND				9.4	NA
cis-1,3-Dichloropropene	ND				9.2	NA
trans-1,3-Dichloropropene	ND				9.2	NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND				14	NA
Freon 113	ND				16	NA
Methylene chloride	ND				7.1	NA
1,1,1,2-Tetrachloroethane	ND				14	NA
1,1,2,2-Tetrachloroethane	ND				14	NA
Tetrachloroethene	110				14	NA
1,2,4-Trichlorobenzene	ND				15	NA
1,1,1-Trichloroethane	ND				11	NA
1,1,2-Trichloroethane	ND				11	NA
Trichloroethene	ND				11	NA
Trichlorofluoromethane	ND				11	NA
Vinyl Chloride	ND				5.2	NA

Surrogate Recoveries (%)

%SS1:	98			
%SS2:	102			
%SS3:	106			

Comments

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.



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Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
	Client Contact: Mehrdad Javaher	Date Received: 10/05/09
	Client P.O.:	Date Extracted: 10/08/09
		Date Analyzed: 10/08/09

Halogenated Volatile Organic Compounds in nL/L*

Extraction Method: TO15

Analytical Method: TO15

Work Order: 0910092

Lab ID	0910092-002A	0910092-003A	0910092-004A	0910092-005A	Reporting Limit for DF =1	
Client ID	SS-1	SS-2	SV1	SV3	Soil Vapor	W
Matrix	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor		
DF	1	1	1	1		
Initial Pressure (psia)	13.82	14.88	13.98	14.77		
Final Pressure (psia)	27.54	29.68	27.9	29.48		
Compound	Concentration				nL/L	ug/L
Bromodichloromethane	ND	ND	ND	ND	2.0	NA
Bromoform	ND	ND	ND	ND	2.0	NA
Bromomethane	ND	ND	ND	ND	2.0	NA
Carbon Tetrachloride	ND	ND	ND	ND	2.0	NA
Chlorobenzene	ND	ND	ND	ND	2.0	NA
Chloroethane	ND	ND	ND	ND	2.0	NA
Chloroform	ND	ND	ND	ND	2.0	NA
Chloromethane	ND	ND	ND	ND	2.0	NA
Dibromochloromethane	ND	ND	ND	ND	2.0	NA
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	2.0	NA
1,2-Dichlorobenzene	ND	ND	ND	ND	2.0	NA
1,3-Dichlorobenzene	ND	ND	ND	ND	2.0	NA
1,4-Dichlorobenzene	ND	ND	ND	ND	2.0	NA
Dichlorodifluoromethane	ND	ND	ND	ND	2.0	NA
1,1-Dichloroethane	ND	ND	ND	ND	2.0	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	2.0	NA
1,1-Dichloroethene	ND	ND	ND	ND	2.0	NA
cis-1,2-Dichloroethene	ND	ND	5.3	ND	2.0	NA
trans-1,2-Dichloroethene	ND	ND	ND	ND	2.0	NA
1,2-Dichloropropane	ND	ND	ND	ND	2.0	NA
cis-1,3-Dichloropropene	ND	ND	ND	ND	2.0	NA
trans-1,3-Dichloropropene	ND	ND	ND	ND	2.0	NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ND	ND	2.0	NA
Freon 113	ND	ND	ND	ND	2.0	NA
Methylene chloride	ND	ND	ND	ND	2.0	NA
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	2.0	NA
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	2.0	NA
Tetrachloroethene	130	220	430	180	2.0	NA
1,2,4-Trichlorobenzene	ND	ND	ND	ND	2.0	NA
1,1,1-Trichloroethane	ND	ND	ND	ND	2.0	NA
1,1,2-Trichloroethane	ND	ND	ND	ND	2.0	NA
Trichloroethene	ND	ND	150	ND	2.0	NA
Trichlorofluoromethane	ND	ND	ND	ND	2.0	NA
Vinyl Chloride	ND	ND	ND	ND	2.0	NA
Surrogate Recoveries (%)						
%SS1:	96	97	99	99		
%SS2:	101	102	105	104		
%SS3:	103	110	107	107		

Comments

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.



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Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
	Client Contact: Mehrdad Javaher	Date Received: 10/05/09
	Client P.O.:	Date Extracted: 10/08/09
		Date Analyzed: 10/08/09

Halogenated Volatile Organic Compounds in nL/L*

Extraction Method: TO15

Analytical Method: TO15

Work Order: 0910092

Lab ID	0910092-006A				Reporting Limit for DF =1	
Client ID	SV4					
Matrix	Soil Vapor					
DF	1					
Initial Pressure (psia)	14.9				Soil Vapor	W
Final Pressure (psia)	29.75					

Compound	Concentration				nL/L	ug/L
Bromodichloromethane	ND				2.0	NA
Bromoform	ND				2.0	NA
Bromomethane	ND				2.0	NA
Carbon Tetrachloride	ND				2.0	NA
Chlorobenzene	ND				2.0	NA
Chloroethane	ND				2.0	NA
Chloroform	ND				2.0	NA
Chloromethane	ND				2.0	NA
Dibromochloromethane	ND				2.0	NA
1,2-Dibromoethane (EDB)	ND				2.0	NA
1,2-Dichlorobenzene	ND				2.0	NA
1,3-Dichlorobenzene	ND				2.0	NA
1,4-Dichlorobenzene	ND				2.0	NA
Dichlorodifluoromethane	ND				2.0	NA
1,1-Dichloroethane	ND				2.0	NA
1,2-Dichloroethane (1,2-DCA)	ND				2.0	NA
1,1-Dichloroethene	ND				2.0	NA
cis-1,2-Dichloroethene	ND				2.0	NA
trans-1,2-Dichloroethene	ND				2.0	NA
1,2-Dichloropropane	ND				2.0	NA
cis-1,3-Dichloropropene	ND				2.0	NA
trans-1,3-Dichloropropene	ND				2.0	NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND				2.0	NA
Freon 113	ND				2.0	NA
Methylene chloride	ND				2.0	NA
1,1,1,2-Tetrachloroethane	ND				2.0	NA
1,1,2,2-Tetrachloroethane	ND				2.0	NA
Tetrachloroethene	16				2.0	NA
1,2,4-Trichlorobenzene	ND				2.0	NA
1,1,1-Trichloroethane	ND				2.0	NA
1,1,2-Trichloroethane	ND				2.0	NA
Trichloroethene	ND				2.0	NA
Trichlorofluoromethane	ND				2.0	NA
Vinyl Chloride	ND				2.0	NA

Surrogate Recoveries (%)

%SS1:	98			
%SS2:	102			
%SS3:	106			

Comments

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.



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Endpoint 98 Battery Street, Suite 200 San Francisco, CA 94111	Client Project ID: 2960 Casro Valley	Date Sampled: 10/05/09
		Date Received: 10/05/09
	Client Contact: Mehrdad Javaher	Date Extracted: 10/08/09
	Client P.O.:	Date Analyzed: 10/08/09

Leak Check Compound*

Extraction method: TO15

Analytical methods: TO15

Work Order: 0910092

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Isopropyl Alcohol	DF	% SS	Comments
002A	SS-1	Soil Vapor	13.82	27.54	ND	1	N/A	
003A	SS-2	Soil Vapor	14.88	29.68	ND	1	N/A	
004A	SV1	Soil Vapor	13.98	27.9	ND	1	N/A	
005A	SV3	Soil Vapor	14.77	29.48	ND	1	N/A	
006A	SV4	Soil Vapor	14.9	29.75	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	psia	psia	NA	NA
	Soil Vapor	psia	psia	10	µg/L

* leak check compound is reported in µg/L. The IPA reference is DTSC, Advisory-Active Soil Gas Investigations, January 28, 2003, page 10, section 2.4.2:

"Tracer compounds, such as ...isopropanol..., may be used as leak check compounds, if a detection limit of 10 ug/L or less can be achieved." This implies that 10 µg/L is the cut off definition for a leak, which equals 10,000 µg/m³.

The other low IPA hits may be due to extremely small leaks or may be naturally occurring in soil gas, particularly at biologically active sites.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 46185

WorkOrder 0910092

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 0910020-006A			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	0.050	113	93.9	18.2	104	86.2	18.3	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	95	82.6	14.0	89.1	74.8	17.4	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	118	101	15.5	99.9	84.5	16.7	60 - 130	30	60 - 130	30
1,1-Dichloroethene	ND	0.050	129	110	15.9	109	92.5	16.1	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	130	108	18.5	114	94.2	19.2	60 - 130	30	60 - 130	30
%SS1:	106	0.12	71	72	0.496	71	72	1.83	70 - 130	30	70 - 130	30
%SS2:	102	0.12	94	94	0	95	95	0	70 - 130	30	70 - 130	30
%SS3:	113	0.012	87	89	3.03	87	86	1.02	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 46185 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0910092-007A	10/05/09 12:29 PM	10/05/09	10/07/09 3:59 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 46224

WorkOrder 0910092

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 0910055-010A			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	101	97.7	3.25	87.1	87	0.0796	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	101	105	3.67	99.3	102	2.59	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	95.4	98.6	3.33	109	115	4.77	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	111	105	6.24	106	106	0	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	114	112	1.42	101	105	3.65	70 - 130	30	70 - 130	30
%SS1:	76	25	90	94	3.78	122	127	3.60	70 - 130	30	70 - 130	30
%SS2:	89	25	101	99	1.68	95	96	0.894	70 - 130	30	70 - 130	30
%SS3:	80	2.5	104	103	1.46	94	102	8.59	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 46224 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0910092-001A	10/05/09 12:40 PM	10/07/09	10/07/09 4:31 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Soil Vapor

QC Matrix: Soil Vapor

BatchID: 46248

WorkOrder: 0910092

EPA Method TO15	Extraction TO15								Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
1,3-Butadiene	N/A	25	N/A	N/A	N/A	85.3	89.9	5.20	N/A	N/A	70 - 130	30
Chlorobenzene	N/A	25	N/A	N/A	N/A	108	108	0	N/A	N/A	70 - 130	30
1,2-Dibromoethane (EDB)	N/A	25	N/A	N/A	N/A	113	114	1.13	N/A	N/A	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	N/A	25	N/A	N/A	N/A	106	107	0.885	N/A	N/A	70 - 130	30
1,2-Dichloro-1,1,2,2-tetrafluoroetha	N/A	25	N/A	N/A	N/A	88.9	96.6	8.26	N/A	N/A	70 - 130	30
Freon 113	N/A	25	N/A	N/A	N/A	103	106	3.01	N/A	N/A	70 - 130	30
1,1,1,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	111	112	0.743	N/A	N/A	70 - 130	30
1,1,2,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	97.5	98.2	0.654	N/A	N/A	70 - 130	30
1,2,4-Trichlorobenzene	N/A	25	N/A	N/A	N/A	81.8	84.5	3.25	N/A	N/A	70 - 130	30
Trichloroethene	N/A	25	N/A	N/A	N/A	105	104	0.726	N/A	N/A	70 - 130	30
Xylenes	N/A	75	N/A	N/A	N/A	109	109	0	N/A	N/A	70 - 130	30
%SS1:	N/A	500	N/A	N/A	N/A	105	106	1.41	N/A	N/A	70 - 130	30
%SS2:	N/A	500	N/A	N/A	N/A	109	109	0	N/A	N/A	70 - 130	30
%SS3:	N/A	500	N/A	N/A	N/A	109	109	0	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 46248 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0910092-002A	10/05/09 10:20 AM	10/08/09	10/08/09 12:29 PM	0910092-003A	10/05/09 9:56 AM	10/08/09	10/08/09 1:18 PM
0910092-003A	10/05/09 9:56 AM	10/08/09	10/08/09 7:09 PM	0910092-004A	10/05/09 11:16 AM	10/08/09	10/08/09 2:06 PM
0910092-004A	10/05/09 11:16 AM	10/08/09	10/08/09 7:52 PM	0910092-005A	10/05/09 10:49 AM	10/08/09	10/08/09 2:56 PM
0910092-005A	10/05/09 10:49 AM	10/08/09	10/08/09 8:32 PM	0910092-006A	10/05/09 12:38 PM	10/08/09	10/08/09 3:45 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.