

Revised for
CONCLUSION OF
RESIDATION

LEYMASTER ENVIRONMENTAL CONSULTING, LLC

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April 22, 2013

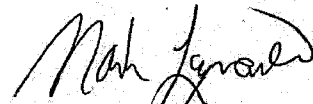
Ms. Dana Davis
Business Properties Management Company, LLC
17631 Fitch
Irvine, CA 92614-6021

Re: PHASE II INVESTIGATION REPORT
MacArthur Square
Newport Beach, California

Dear Ms. Davis:

Enclosed is a *Phase II Investigation Report* for the above-referenced site. Please call if you have questions or comments.

Sincerely,


Mark Leymaster, PE



Myrna Rangel
Project Manager

Enclosure

PHASE II INVESTIGATION REPORT

**MacArthur Square
Newport Beach, California**

April 22, 2013

1.0 Introduction

This report describes the field activities and analytical results of a Phase II investigation conducted by Leymaster Environmental Consulting, LLC (LEC) on the property known as MacArthur Square, Newport Beach, California, California (Figure 1). The investigation was completed on April 9, 2013.

The purpose of the investigation was to assist in determining whether former dry cleaning operations on the property represent a human health risk and as a screening tool to evaluate possible impacts to the subsurface from either onsite or offsite sources.

2.0 Soil-Vapor Investigation

LEC collected three sub-slab vapor samples from beneath the former Enjay Cleaners, located at 1701 Corinthian Way, Suite H. Seven soil vapor probes (SV-1 through SV-7) were installed around the perimeter of MacArthur Square. Soil vapor samples were collected at five feet beneath the surface (bgs) from all locations. In addition, 15-foot vapor samples were collected from four of the probes (SV-1, SV-2, SV-4, and SV-6). Sampling locations are shown on Figure 2.

The sub-slab vapor samples were collected using the procedure that conforms to the Department of Toxic Substance Control (DTSC) and the Los Angeles Regional Water Quality Control Board (RWQCB) specifications. The vapor samples were collected directly beneath the concrete slab. A default 3 purge volume was used to purge ambient air from the sampling system. At each location, the vapor probe seal was tested using the tracer compound 1,1,-difluoroethane to ensure the integrity of the seal. After an equilibration period of at least 30 minutes, ambient vapors were extracted from the tube using a syringe and were analyzed onsite in a California state-certified mobile laboratory by EPA Method 8260B for concentrations of volatile organic compounds (VOCs).

A sub-slab soil-vapor sample and an ambient air sample were also collected in Tedlar bags, and transported to Dr. Douglas E. Hammond at the University of Southern California Department of Geological Sciences and analyzed for radon by liquid scintillation counting within approximately three hours of sampling.

The analytical results of detectable VOC concentrations for the sub-slab samples are shown on the following table. Results are reported in micrograms per liter ($\mu\text{g/l}$). Laboratory data are included in Attachment A.

Phase II Investigation Report
MacArthur Square
Newport Beach, CA
Page 2 of 4

Sample ID	Date	Tetrachloroethene (PCE)
CHHLS-Commercial		1.6
SS-1	4/9/2013	0.73
SS-2	4/9/2013	0.21
SS-3	4/9/2013	0.35

All PCE concentrations detected are below the sub-slab California Human Health Screening Levels (CHHSLs) for commercial land use. The former dry cleaning operations have not significantly impacted the subsurface and there is no human health risk based on these analytical results. Therefore, a Screening Level Risk Assessment was not completed. The results of the radon analysis are included in Attachment II for informational purposes only.

Soil-vapor samples from SV1 through SV7 were collected using the procedure that conforms to the DTSC and RWQCB specifications by driving a rod to the target depth and inserting a perforated Tygon® tube into the rod, which was then withdrawn, leaving the tube in the ground. The annular space around the tube was backfilled with bentonite chips that were then hydrated with drinking water to create a seal around the tube. A purge volume test was completed and based on the results; a 10 purge volume was used for the survey. Each vapor probe was tested using the tracer compound 1,1,-difluoroethane to ensure the integrity of the seal. After an equilibration period of at least 30 minutes, ambient vapors were extracted from the tube using a syringe and were analyzed onsite in a California state-certified mobile laboratory by EPA Method 8260B for concentrations VOCs.

The analytical results of detectable VOC concentrations for the vapor probes are shown on the following table. Results are reported in $\mu\text{g/l}$. Laboratory data are included in Attachment A.

Phase II Investigation Report
 MacArthur Square
 Newport Beach, CA
 Page 3 of 4

Sample ID	Date	Tetrachloroethene (PCE)
SV-1-5'	4/9/2013	<0.10
SV-1-15'	4/9/2013	<0.10
SV-2-5'	4/9/2013	0.15
SV-2-15'	4/9/2013	1.5
SV-3-5'	4/9/2013	0.38
SV-4-5'	4/9/2013	<0.10
SV-4-15'	4/9/2013	1.4
SV-5-5'	4/9/2013	<0.10
SV-6-5'	4/9/2013	<0.10
SV-6-15'	4/9/2013	<0.10
SV-7-5'	4/9/2013	<0.10

The PCE concentrations detected in SV-2-5' and SV-3-5' are below the CHHSLs of 0.603 µg/l for commercial land use. There is no corresponding CHHSL for samples collected at depths greater than five feet bgs.

It is possible that the PCE concentrations detected at 15 feet bgs are off-gassing from the groundwater, which is approximately 20 feet bgs. However, there is no indication that current and or former operations at the property are the source of this impact.

3.0 Conclusion

No further investigation is recommended. However, should the property be re-developed for residential purposes it is possible that certain measures might be required to mitigate any potential risk associated with the PCE concentrations in the soil-vapor. Examples of such measures include but are not limited to the following:

- Installation of a vapor barrier beneath the footprint of the planned development;
- Construction of an underground parking structure with sufficient

Phase II Investigation Report
MacArthur Square
Newport Beach, CA
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- open air circulation; and
- No residential units on the first floor of the development.

Any of these measures would sufficiently address potential vapor-intrusion issues.



Leymaster Environmental Consulting, LLC

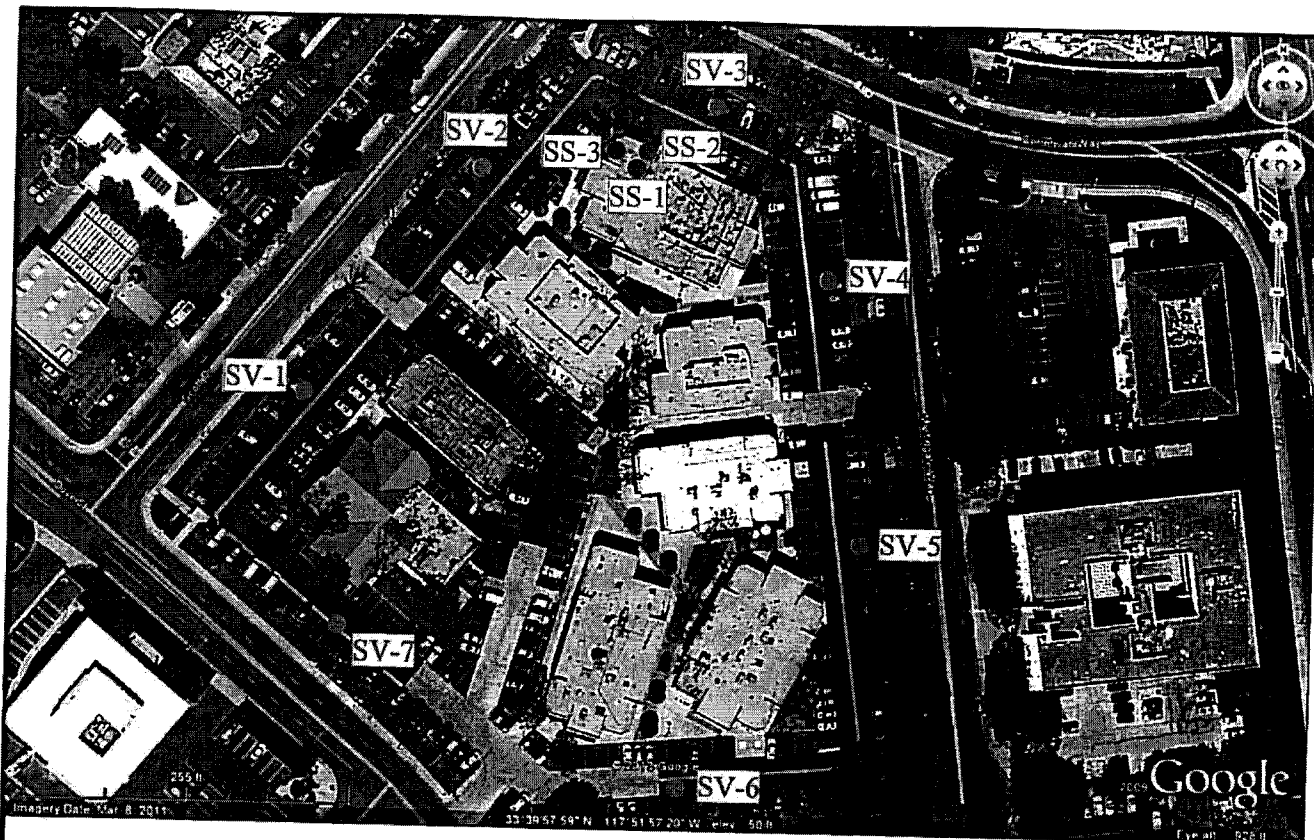
5500 E. Atherton St., Suite 210
Long Beach, CA 90815

Local Area Map

1660 Dove Street
4200 & 4220 Scott Drive
4251 & 4253 Martingale Way
Newport Beach, CA 92660

Figure 1

April 22, 2013



Legend

- Soil-Vapor Probe Location
- Sub-Slab Location

Leymaster Environmental Consulting, LLC <hr/> 5500 E. Atherton St., Suite 210 Long Beach, CA 90815	Sampling Locations 1660 Dove Street 4200 & 4220 Scott Drive 4251 & 4253 Martingale Way Newport Beach, CA 92660	
	Figure 2	April 22, 2013

ATTACHMENT I

Laboratory Data



16 April 2013

Ms. Myrna Rangel
Leymaster Environmental Consulting, LLC
5500 East Atherton St, Suite 210
Long Beach, CA 90815



H&P Project: LEY040913-SB2
Client Project: 4200 SCOTT ST.

Dear Ms. Myrna Rangel:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 09-Apr-13 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

A handwritten signature in cursive script that reads 'Janis Villarreal'.

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

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Leymaster Environmental Consulting, LLC
5500 East Atherton St, Suite 210
Long Beach, CA 90815

Project: LEY040913-SB2
Project Number: 4200 SCOTT ST.
Project Manager: Ms. Myrna Rangel

Reported:
16-Apr-13 10:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-2-5', 1PV, P111cc	E304026-01	Vapor	09-Apr-13	09-Apr-13
SV-2-5', 3PV, P333cc	E304026-02	Vapor	09-Apr-13	09-Apr-13
SV-2-5', 10PV, P1108cc	E304026-03	Vapor	09-Apr-13	09-Apr-13
SV-3-5', P1108cc	E304026-04	Vapor	09-Apr-13	09-Apr-13
SV-2-15', P1202cc	E304026-05	Vapor	09-Apr-13	09-Apr-13
SV-4-5', P1111cc	E304026-06	Vapor	09-Apr-13	09-Apr-13
SV-5-5', P1111cc	E304026-07	Vapor	09-Apr-13	09-Apr-13
SV-4-15', P1202cc	E304026-08	Vapor	09-Apr-13	09-Apr-13
SV-4-15' Rep, P1252cc	E304026-09	Vapor	09-Apr-13	09-Apr-13
SV-6-15', P1202cc	E304026-10	Vapor	09-Apr-13	09-Apr-13
SV-6-5', P1111cc	E304026-11	Vapor	09-Apr-13	09-Apr-13
SV-7-5', P1111cc	E304026-12	Vapor	09-Apr-13	09-Apr-13
SS1, P135cc	E304026-13	Vapor	09-Apr-13	09-Apr-13
SS2, P135cc	E304026-14	Vapor	09-Apr-13	09-Apr-13
SS3, P135cc	E304026-15	Vapor	09-Apr-13	09-Apr-13
SV-1-5', P1111cc	E304026-16	Vapor	09-Apr-13	09-Apr-13
SV-1-15', P1202cc	E304026-17	Vapor	09-Apr-13	09-Apr-13

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Project: LEY040913-SB2
Project Number: 4200 SCOTT ST.
Project Manager: Ms. Myrna Rangel

Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2-57, IPV, P111cc (E304026-01) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	"
Vinyl chloride	ND	0.05	"	"	"	"	"	"	"
Chloroethane	ND	0.50	"	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	"
Chloroform	ND	0.10	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	"
Benzene	ND	0.10	"	"	"	"	"	"	"
Trichloroethene	ND	0.10	"	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
m,p-Xylene	ND	0.50	"	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		100 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		107 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8		102 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		110 %	75-125	"	"	"	"	"	"

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Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2-5', 3PV, P333cc (E304026-02) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		111 %	75-125		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	75-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	75-125		"	"	"	"	

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Project Number: 4200 SCOTT ST.
Project Manager: Ms. Myrna Rangel

Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2-5', 10PV, P1108cc (E304026-03) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	0.15	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		110 %	75-125	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	75-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %	75-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	75-125	"	"	"	"	"	

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Project: LEY040913-SB2
Project Number: 4200 SCOTT ST.
Project Manager: Ms. Myma Rangel

Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-3-5', P1108cc (E304026-04) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	0.38	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		111 %	75-125	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	75-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	75-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %	75-125	"	"	"	"	"	

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Project Number: 4200 SCOTT ST.
Project Manager: Ms. Myrna Rangel

Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2-15', P1202cc (E304026-05) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
i,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	1.5	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		109%		75-125	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105%		75-125	"	"	"	"	
Surrogate: Toluene-d8		102%		75-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107%		75-125	"	"	"	"	

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Project: LEY040913-SB2
Project Number: 4200 SCOTT ST.
Project Manager: Ms. Myrna Rangel

Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4-5', P1111cc (E304026-06) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	75-125	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		120 %	75-125	"	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-125	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	75-125	"	"	"	"	"	

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Project: LEY040913-SB2
Project Number: 4200 SCOTT ST.
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Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5-5', P1111cc (E304026-07) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %		75-125	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		113 %		75-125	"	"	"	"	
Surrogate: Toluene-d8		99.8 %		75-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		75-125	"	"	"	"	

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Project Number: 4200 SCOTT ST.
Project Manager: Ms. Myrna Rangel

Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4-15', P1202cc (E304026-08) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	1.4	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		110%		75-125	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120%		75-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101%		75-125	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107%		75-125	"	"	"	"	

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Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4-15' Rep, P1252cc (E304026-09) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	1.3	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	75-125	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		119 %	75-125	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-125	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	75-125	"	"	"	"	"	

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Project Number: 4200 SCOTT ST.
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Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6-15', P1202cc (E304026-10) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	75-125	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120 %	75-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	75-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	75-125	"	"	"	"	"	

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Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6-5', P1111cc (E304026-11) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
I,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		121 %		75-125	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		123 %		75-125	"	"	"	"	
Surrogate: Toluene-d8		103 %		75-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		75-125	"	"	"	"	

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Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-7-5', P1111cc (E304026-12) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	75-125		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		116 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		102 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		"	"	"	"	

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Project: LEY040913-SB2
Project Number: 4200 SCOTT ST.
Project Manager: Ms. Myrna Rangel

Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SS1, P135cc (E304026-13) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	0.73	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		117 %		75-125	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		124 %		75-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %		75-125	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		75-125	"	"	"	"	

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Reported:
16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SS2, P135c (E304026-14) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	0.21	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		114 %		75-125	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		124 %		75-125	"	"	"	"	
Surrogate: Toluene-d8		102 %		75-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %		75-125	"	"	"	"	

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Project Manager: Ms. Myrna Rangel

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Volatile Organic Compounds by 8260SV

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SS3, P135cc (E304026-15) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	0.35	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		109 %		75-125	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		122 %		75-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.7 %		75-125	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %		75-125	"	"	"	"	

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Volatile Organic Compounds by 8260SV

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1-5', P1111cc (E304026-16) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		114 %	75-125	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		122 %	75-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	75-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	75-125	"	"	"	"	"	

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16-Apr-13 10:11

Volatile Organic Compounds by 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1-15', P1202cc (E304026-17) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	ED30906	09-Apr-13	09-Apr-13	H&P 8260 SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		116 %	75-125	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		118 %	75-125	"	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-125	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	75-125	"	"	"	"	"	

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Volatile Organic Compounds by 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED30906 - EPA 5030										
Blank (ED30906-BLK1)										
Prepared & Analyzed: 09-Apr-13										
1,1-Difluoroethane (LCC)	ND	0.50	ug/l							
Dichlorodifluoromethane (F12)	ND	0.50	"							
Vinyl chloride	ND	0.05	"							
Chloroethane	ND	0.50	"							
Trichlorofluoromethane (F11)	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
Methylene chloride (Dichloromethane)	ND	0.50	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
Chloroform	ND	0.10	"							
1,1,1-Trichloroethane	ND	0.50	"							
Carbon tetrachloride	ND	0.10	"							
1,2-Dichloroethane (EDC)	ND	0.10	"							
Benzene	ND	0.10	"							
Trichloroethene	ND	0.10	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.10	"							
Ethylbenzene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
m,p-Xylene	ND	0.50	"							
o-Xylene	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Surrogate: Dibromofluoromethane	2.71		"	2.50		109	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.64		"	2.50		106	75-125			
Surrogate: Toluene-d8	2.62		"	2.50		105	75-125			
Surrogate: 4-Bromofluorobenzene	2.76		"	2.50		110	75-125			

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Volatile Organic Compounds by 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED30906 - EPA 5030										
LCS (ED30906-BS1)										
Prepared & Analyzed: 09-Apr-13										
Dichlorodifluoromethane (F12)	3.82	0.50	ug/l	5.00		76.3	70-130			
Vinyl chloride	4.11	0.05	"	5.00		82.2	70-130			
Chloroethane	4.09	0.50	"	5.00		81.8	70-130			
Trichlorofluoromethane (F11)	5.12	0.50	"	5.00		102	70-130			
1,1-Dichloroethene	4.94	0.50	"	5.00		98.7	70-130			
Methylene chloride (Dichloromethane)	4.70	0.50	"	5.00		94.0	70-130			
1,1,2-Trichlorotrifluoroethane (F113)	4.88	0.50	"	5.00		97.6	70-130			
trans-1,2-Dichloroethene	5.29	0.50	"	5.00		106	70-130			
1,1-Dichloroethane	4.41	0.50	"	5.00		88.3	70-130			
cis-1,2-Dichloroethene	5.06	0.50	"	5.00		101	70-130			
Chloroform	4.99	0.10	"	5.00		99.8	70-130			
1,1,1-Trichloroethane	4.91	0.50	"	5.00		98.1	70-130			
Carbon tetrachloride	5.11	0.10	"	5.00		102	70-130			
1,2-Dichloroethane (EDC)	5.11	0.10	"	5.00		102	70-130			
Benzene	4.88	0.10	"	5.00		97.6	70-130			
Trichloroethene	4.82	0.10	"	5.00		96.4	70-130			
Toluene	5.13	1.0	"	5.00		103	70-130			
1,1,2-Trichloroethane	4.55	0.50	"	5.00		90.9	70-130			
Tetrachloroethene	5.01	0.10	"	5.00		100	70-130			
Ethylbenzene	5.46	0.50	"	5.00		109	70-130			
1,1,1,2-Tetrachloroethane	4.88	0.50	"	5.00		97.5	70-130			
m,p-Xylene	10.3	0.50	"	10.0		103	70-130			
o-Xylene	5.07	0.50	"	5.00		101	70-130			
1,1,2,2-Tetrachloroethane	4.92	0.50	"	5.00		98.4	70-130			
Surrogate: Dibromofluoromethane	2.54		"	2.50		102	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.59		"	2.50		104	75-125			
Surrogate: Toluene-d8	2.76		"	2.50		111	75-125			
Surrogate: 4-Bromofluorobenzene	2.78		"	2.50		111	75-125			

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Project Number: 4200 SCOTT ST.
Project Manager: Ms. Myrna Rangel

Reported:
16-Apr-13 10:11

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2734 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A	Dibromochloromethane by EPA TO-15
Hexachlorobutadiene by EPA TO-15 & TO-14A	1,3-Dichlorobenzene by EPA TO-15 & TO-14A
Bromodichloromethane by EPA TO-15 & TO-14A	Trichlorofluoromethane by EPA TO-14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A	Naphthalene by H&P SOP TO-15/GC-MS
Dichlorotetrafluoroethane by EPA TO-14A	1,2-Dibromoethane (EDB) by EPA TO-15 & TO-14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A	1,2-Dibromo-3-chloropropane by EPA TO-15
Benzene by EPA TO-15 & TO-14A	1,3-Butadiene by EPA TO-15
Chlorobenzene by EPA TO-15 & TO-14A	1,1,2-Trichloroethane by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A	Carbon disulfide by EPA TO-15
Styrene by EPA TO-15 & TO-14A	1,4-Dioxane by EPA TO-15
Toluene by EPA TO-15 & TO-14A	
Total Xylenes by EPA TO-15 & TO-14A	
1,1,1-Trichloroethane by EPA TO-15 & TO-14A	
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A	
1,1,2-Trichloroethane by EPA TO-15 & TO-14A	
1,1-Dichloroethane by EPA TO-15 & TO-14A	
1,1-Dichloroethene by EPA TO-15 & TO-14A	
1,2-Dichloroethane by EPA TO-15 & TO-14A	
1,2-Dichloropropane by EPA TO-15 & TO-14A	
Benzyl Chloride by EPA TO-15 & TO-14A	
Bromoform by EPA TO-15	
Bromomethane by EPA TO-15 & TO-14A	
Carbon tetrachloride by EPA TO-15 & TO-14A	
Chloroethane by EPA TO-15 & TO-14A	
Chloroform by EPA TO-15 & TO-14A	
Chloromethane by EPA TO-15 & TO-14A	
cis-1,2-Dichloroethene by EPA TO-15 & TO-14A	
cis-1,3-Dichloropropene by EPA TO-15 & TO-14A	
Methylene chloride by EPA TO-15 & TO-14A	
Tetrachloroethane by EPA TO-15 & TO-14A	
trans-1,2-Dichloroethene by EPA TO-15	
trans-1,3-Dichloropropene by EPA TO-15 & TO-14A	
Trichloroethene by EPA TO-15 & TO-14A	
Vinyl chloride by EPA TO-15 & TO-14A	
2-Butanone by EPA TO-15	
4-Methyl-2-Pentanone by EPA TO-15	
Hexane by EPA TO-15	
Methyl tert-butyl ether by EPA TO-15	
Vinyl acetate by EPA TO-15	

This certification applies to samples analyzed in stainless canisters.

Chain of Custody Record

Date: 09/09/13
 H&P Project # LEY 040913-9B2
 Outside Lab:

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

H&P Mobile
 Geochemistry
 Inc.

Client: LEYMASTER Collector: A. WRIGHT Page: 1 of 2
 Address: 5500 E. ATHERTON ST, #210 Client Project # _____
LONG BEACH, CA 90815 Location: 4200 SLOTT ST., NEWPORT BEACH
 Email: MYRNA@LEYMASTER.COM Phone: (562) 453-5570 Fax: _____
 Turn around time: _____

Geotracker EDF: Yes No
 Global ID: _____
 Excel EDD: Yes No
 Sample Receipt:
 Intact: Yes No
 Seal Intact: Yes No N/A
 Cold: Yes No N/A
 Temperature: _____
 P.T.

Special Instructions: _____
 Lab Work Order # E304026 Batch # ED30906

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers
SV-2-5' 1PV	111	111	828	9/9	VAPOR	SYRINGE	1
SV-2-5' 3PV	333	333	830				1
SV-2-5' 10PV	111	408	832				1
SV-3-5'		1108	949				1
SV-2-15'		1202	951				1
SV-4-5'	111	408	959				1
SV-5-5'	111	408	1047				1
SV-4-15'	1202	1202	1038				1
SV-4-15' REF	1252	1252	1039				1
SV-6-15'	1202	408	1050				1
Relinquished by: (Signature) <u>[Signature]</u>	(company) <u>LEY</u>						
Relinquished by: (Signature) _____	(company) _____						
Relinquished by: (Signature) _____	(company) _____						

SOIL VAPOR/AIR ANALYSIS																
8260B Full List	8260B	8015M TPH	418.1 TRPH	VOCs: Full List	VOCs: Short List/D15C	VOCs: SAM, 8260B	Naphthalene	Oxygencles	TPHv gas	Ketones	Other	Leak Check Compound	Methane	Fixed Gases		
8260B	BTEX/OXY	TPH gas	g	d	ext	SAM A	SAM B	8260B	TO-15	8260B	TO-15	8260B	TO-15	CO2	O2	N2
X	X	X	X	X	X	X	X	X	X	X	X	X	X			
X	X	X	X	X	X	X	X	X	X	X	X	X	X			
X	X	X	X	X	X	X	X	X	X	X	X	X	X			
X	X	X	X	X	X	X	X	X	X	X	X	X	X			
X	X	X	X	X	X	X	X	X	X	X	X	X	X			
X	X	X	X	X	X	X	X	X	X	X	X	X	X			

Received by: (Signature) _____ (company) LEY
 Received by: (Signature) _____ (company) _____
 Received by: (Signature) _____ (company) _____
 Date: 9/9/13 Time: 12:38
 Date: _____ Time: _____
 Date: _____ Time: _____

Signature constitutes authorization to proceed with analysis and acceptance of condition on back.
 Sample disposal instruction: _____
 Disposal Return to client Pickup

Chain of Custody Record

H&P Mobile
Geochemistry
Inc.

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4/9/13
H&P Project # LEY040713-262
Outside Lab:

Client: LEYMASTER Collector: A. W. NEVHT Page: 2 of 2
Address: 5500 E AMERTON ST, #210 Client Project # _____
LOW BEACH CA 90815 Location: 4200 SLOT DR, NUMBER BEACH
Email: MYRICAL.LEYMASTER.COM Phone: (562) 953-5570 Fax: _____
Turn around time: _____

Geotracker EDF: Yes No
Global ID: _____
Excel EDD: Yes No
Special Instructions: _____

Sample Receipt
Initial: Yes No N/A
Seal Initial: Yes No N/A
Cold: Yes No N/A
Temperature: _____

Lab Work Order # E309026 Batch # EP30906

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers
SV-8-5'		1111	1054	4/9	VAPOR	SYR-145E	1
SV-7-5'		1111	1103				1
551		135	1140				1
552		135	1143				1
553		135	1146				1
SV-1-5'		1111	1235				1
SV-1-15'		1202	1238				1
Relinquished by: <u>[Signature]</u> (company) <u>LEC</u> Relinquished by: <u>[Signature]</u> (company) <u>LEC</u> Relinquished by: <u>[Signature]</u> (company) <u>LEC</u>							

SOIL/GW		SOIL VAPOR/AIR ANALYSIS												
8260B Full List	8260B BTEX/OXY TPH gms	8015M TPH	418.1 TRPH	VOCs: Full List	VOCs: Short List/DI/SC	VOCs: SAM, 8260B	Naphthalene	Oxyganes	TPHv gms	Kelones	Other	Leak Check Compound	Methane	Fixed Gases
<input type="checkbox"/> BTEX/OXY <input type="checkbox"/> TPH gms	<input type="checkbox"/> g <input type="checkbox"/> d <input type="checkbox"/> ext			<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15	<input checked="" type="checkbox"/> 8260B <input type="checkbox"/> TO-15	<input type="checkbox"/> SAM A <input type="checkbox"/> SAM B	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15	<input checked="" type="checkbox"/> 1,1 DFA <input type="checkbox"/> OTHER		<input type="checkbox"/> CO2 <input type="checkbox"/> O2 <input type="checkbox"/> N2
					X							X		
					X							X		
					X							X		
					X							X		
					X							X		
					X							X		
					X							X		

Received by: [Signature] (company) HP Date: 4/9/13 Time: 1238
 Received by: [Signature] (company) HP Date: _____ Time: _____
 Received by: [Signature] (company) HP Date: _____ Time: _____

Sample disposal instruction: Disposal Return to client Pickup

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

ATTACHMENT II

Radon Analytical

Radon Analysis (EPA Method GS: Grab Sample/Scintillation Cell counting)																	
For Leymaster Environmental				Client Project Number: 4200 Scott Drive													
Samples Collected by: Myrna Rangel				Sample Dates: 4/09/13													
Site: 4200 Scott Drive, Newport Beach, CA				Sample containers: Tediab bags													
				Assumed Site Pressure: 1.00 atm													
Analysts: Doug Hammond				based on an elevation of 50 ft													
Phone: 310-490-7896				Time Zone adjustment: add to decay time													
email: dhammond@usc.edu				0 hours													
				Collect (PDT)													
				Run (PDT)													
Summary		Collection		Analysis		Vol run		Conc.		±1 sig		Lab Duplicates					
Date	time	Date	time	(cc)	pCi/L	pCi/L	mean	±1ssd	pCi/L	pCi/L	Notes						
(PDT)	(PDT)	(PDT)	(PDT)														
Received 4/09/13																	
1	Radon Ambient	4/9/13	11:50	4/9/13	15:15	120	0.58	0.06									
2	SS2-Radon	4/9/13	11:40	4/9/13	15:21	40	207	10	207	0							
	lab dupe	4/9/13	11:40	4/9/13	15:23	40	207	10									
Uncertainty given in pCi/liter is based on counting statistics for low activity samples. For high activity samples uncertainty is ±5%.																	
The Lower Limit of Detection for Rn (95% confidence level as recommended by EPA 402-R-95-012, Oct. 97) is 0.14 pCi/liter.																	
Results are reported based on standardization with NIST-traceable radon sources.																	
These results are for application of naturally-occurring radon as a tracer of soil vapor intrusion, but are not intended for evaluation of radon hazards.																	
Results corrected to in situ pressure as noted above																	
Raw Data, Calculation factors, and Analytical Details																	
Sample ID		Collection		Analysis		Count in	He	Air/He	Vol run	Press	obs	sig	Decay T	Decay	Concentration	count	
Date	Time	Date	Time	Time	eff	eff	(cc)	factor	dpm	dpm	(hours)	factor	dpm/liter	pCi/liter	pCi/liter	Notes	
(PDT)	(PDT)	(PDT)	(PDT)	(PDT)													
Received 4/09/13																	
1	Radon Ambient	4/9/13	11:50	4/9/13	15:15	82/32	0.743	0.95	120	1.00	0.11	0.01	3.4	1.026	1.28	0.58	0.06
2	SS2-Radon	4/9/13	11:40	4/9/13	15:21	74/34	0.948	0.99	40	1.00	16.77	0.13	3.7	1.028	459	207	2
	lab dupe	4/9/13	11:40	4/9/13	15:23	61/33	0.821	0.99	40	1.00	14.52	0.12	3.7	1.028	459	207	2
Decay corrections based on Rn decay constant of		0.1813 per day		Radon Conc = (0.4504)(1000)(obs dpm)(decay factor)/(Press factor)/(cc used)(He eff)/(Air/He)													
Conversion from dpm based on		0.4504 pCi/dpm		(in pCi/liter)													
Blanks are negligible.																	
Definitions:																	
Cell/ch:	Counting cell and channel used										sig dpm	uncertainty (± 1 sig) in dpm based on counting statistics					
He eff:	Cell and counter efficiency using helium matrix										Decay T:	time elapsed from sampling to analysis					
Air/He:	Correction for matrix counting gas density										Decay factor:	Correction factor for decay from collection to analysis					
Sample vol:	Volume analyzed (cc)										dpm/liter:	Radon concentration in disintegrations per minute per liter of sample					
Press factor:	Correction to in situ pressure based on collection altitude										pCi/liter:	Radon concentration in picocuries per liter					
obs dpm:	observed radon activity (disintegrations per minute) when analyzed										count stats:	uncertainty in observed radon based on counting statistics					