September, 6, 2013

Mr. Paresh Khatri
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, CA 9502-6577

Subject: Soil Vapor Extraction Remediation Startup Report
Crow Canyon Dry Cleaners
7272 San Ramon Road Dublin, CA
RO# 000283

Dear Mr. Khatri:

This enclosed report has been prepared by Endpoint Consulting, Inc. on behalf of the Burrows Company, Dwight & Carleton Perry, Gabriel H. Chui & Lai H. Trust, the Lee Family, Nam Sun and Seung Hee Park, and James Roessler.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge. If you have any questions, please contact Mr. Mehrdad Javaher. of Endpoint at 415-706-8935.

Sincerely,

James Roessler
Raphel-Roessler Retail Group

September 6, 2013

Mr. Dilan Roe
Hazardous Materials Specialist
Alameda County Health Care Services Agency (County)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Semi-Annual Post-Remediation Vapor Monitoring Report
Crow Canyon Dry Cleaners
7272 San Ramon Road, Dublin, California
(RO # 0002863)

Dear Mr. Khatri,

Endpoint Consulting, Inc. (Endpoint) is pleased to present this letter report summarizing the results of the first of two semi-annual post-remediation vapor monitoring events conducted at the above-referenced site. This report follows the soil vapor extraction (SVE) startup report submitted to the County in October 2012, and represents soil vapor sampling approximately 5 months following termination of the SVE operations performed in concert with the County-approved Corrective Action Plan (CAP) for the site. This is the first of two post remediation semi-annual vapor monitoring reports planned for the site.

Background

The site is an active dry cleaner set in a suite within a commercial building in the Lamps Plus Shopping Center, located on the west side of San Ramon Road within a mixed residential/commercial area of Dublin, CA. Historical resources and site reconnaissance have revealed that the unit encompassing the site (i.e, 7272 San Ramon Road) has been occupied by a dry-cleaning facility since 1988. The dry-cleaning and solvent storage areas were located in the back of the building, with PCE used as the cleaning solvent until 2004; current dry cleaning operations do not use any chlorinated solvents.

Immediately adjacent (to the south) to the suite housing the dry cleaners is an occupied commercial/retail space. This space was historically occupied by a Montessori School serving preschool children; the Montessori School has since moved out of this space and this suite has remained unoccupied since February 2013.

As outlined in the CAP, the objectives of implementing SVE remediation at the site included the reduction of PCE concentrations in soil vapor across the site, with particular emphasis on minimizing the potential for PCE vapor migration toward the suite formerly occupied by the Montessori School. At the time the CAP was prepared, the ownership at the Montessori School

were in the process of securing alternate space to support a permanent move of the school from the existing location. Hence, the CAP outlined two sets of cleanup goals for the sole chemical of potential concern (COC), tetrachloroethene (PCE), present at the site; one cleanup goal corresponded to the continued use of the adjacent suite as a Montessori School (represented by a residential cleanup goal of 410 ug/m^3), and the second cleanup goal corresponding to commercial use of the adjacent suite (1,400 ug/m^3) based on the planned departure of the Montessori School from the adjacent suite. In concert with the CAP and per discussions with the County, since the Montessori School has moved from the adjacent suite in early 2013, the cleanup goal applicable to the site is 1,400 ug/m^3, corresponding to the commercial/industrial shallow soil vapor environmental screening level (ESL) adopted by the San Francisco Bay Regional Water Quality Control Board ([Water Board], 2007)[1].

As required by the final CAP for the site, an SVE system was permitted and installed at the site on June 21, 2012, with daily operations beginning on June 28, 2012 and continuing at the date of this report. On October 2, 2012, the SVE system operations were terminated in support of collection of vapor samples from key site wells to assess the benefits of SVE operations. This sampling was conducted on October 9, 2012, after which the SVE system was restarted and continues to operate today. The results of that sampling was documented in the SVE startup report dated October 29, 2012. The SVE operations were continued through March 2013, when the SVE system was terminated, in concert with the CAP, due to diminishing vapor mass removal rates. At the time of system termination, more than 15 pounds of PCE had been removed from the site between June 2012 through March 2013.

This report summarizes the results of soil vapor sampling conducted in August 2013, approximately 5 months after termination of SVE operations in March 2013.

SOIL VAPOR SAMPLING ACTIVITIES

On August 23, 2013, Endpoint performed soil vapor sampling activities at key monitoring and extraction wells, approximately 5 months after termination of the SVE operations. The wells sampled included VE-1S, VE-2S, VM-4S, VM-5SS, VM-6SS, and VM-9SS (see Figure 1 for well locations). Vapor sampling protocols, including shut-in testing, leak testing, and purge volume testing procedures following DTSC guidance, were implemented following the procedures previously approved by the County and implemented at this site in support of past monitoring events. The laboratory analytical report for this sampling is included as Attachment A, while the field data sheets are included as Attachment B.

Figure 1 summarizes the vapor sampling results for the August 2013 monitoring event, while Table 1 summarizes the results of vapor sampling conducted at the site since July 2009, when SVE was first implemented at the site as an interim remedial action (IRA) measure. The table includes results of post-IRA SVE sampling through June 2012. This sampling was then followed by the October 2012 sampling following restart of the SVE system in concert with the CAP. Lastly, the table includes the results of the post-SVE monitoring event documented in this report and performed in August 2013.

As indicated in Table 1, the August 2013 post-remediation sampling conducted approximately 5 months

[1] Water Board, 2007. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. Interim Final, November (Revised May 2008).

after termination of the SVE system indicates that PCE concentrations remain below the PCE commercial/industrial cleanup goal of 1,400 ug/m^3 at five of the six sampled locations; the sole well containing PCE above the commercial/industrial ESL is VE-1S with PCE reported at 2,100 ug/m^3. VE-1S is one of the site's vapor extraction wells located in the suspected release area and has historically contained PCE as high as 19,000 ug/m^3 (see Table 1). All other PCE concentrations detected at the site remain below the cleanup goal. It should also be noted that trichloroethylene (TCE) was also detected in two of the site samples, at a maximum concentration of 32 ug/m^3 (see Attachment A), which is well below both the residential (1,200 ug/m^3) and commercial (4,100 ug/m^3) shallow soil vapor ESLs (Water Board, 2007).

DISCUSSION AND CONCLUSIONS

The results of the post-remediation vapor sampling conducted in August 2013 and approximately 5 months following termination of the SVE operations indicate that a significant decline has occurred in PCE concentrations across all wells sampled relative to the pre-remediation samples collected in June 2012, which included PCE as high as 12,000 ug/m^3 in VE-1S (see Table 1). Some rebound in PCE concentrations has occurred relative to the October 2013 vapor samples collected three months into the SVE operations (see Table 1); however, at this time, only a single well (VE-1S) contains PCE at a level (2,100 ug/m^3) which exceeds the cleanup goal of 1,400 ug/m^3.

PLANNED ACTIVITIES

In concert with the CAP, the second post-remediation vapor monitoring event is scheduled for February 2013.

CLOSING

Endpoint appreciates your assistance with this project. If you have any questions, please contact Mehrdad Javaherian at 415-706-8935, or at mehrdad@endpoint-inc.com.

Sincerely,
Endpoint Consulting, Inc.

Mehrdad Javaherian, Ph.D., MPH, PE, LEED®GA
Program Manager

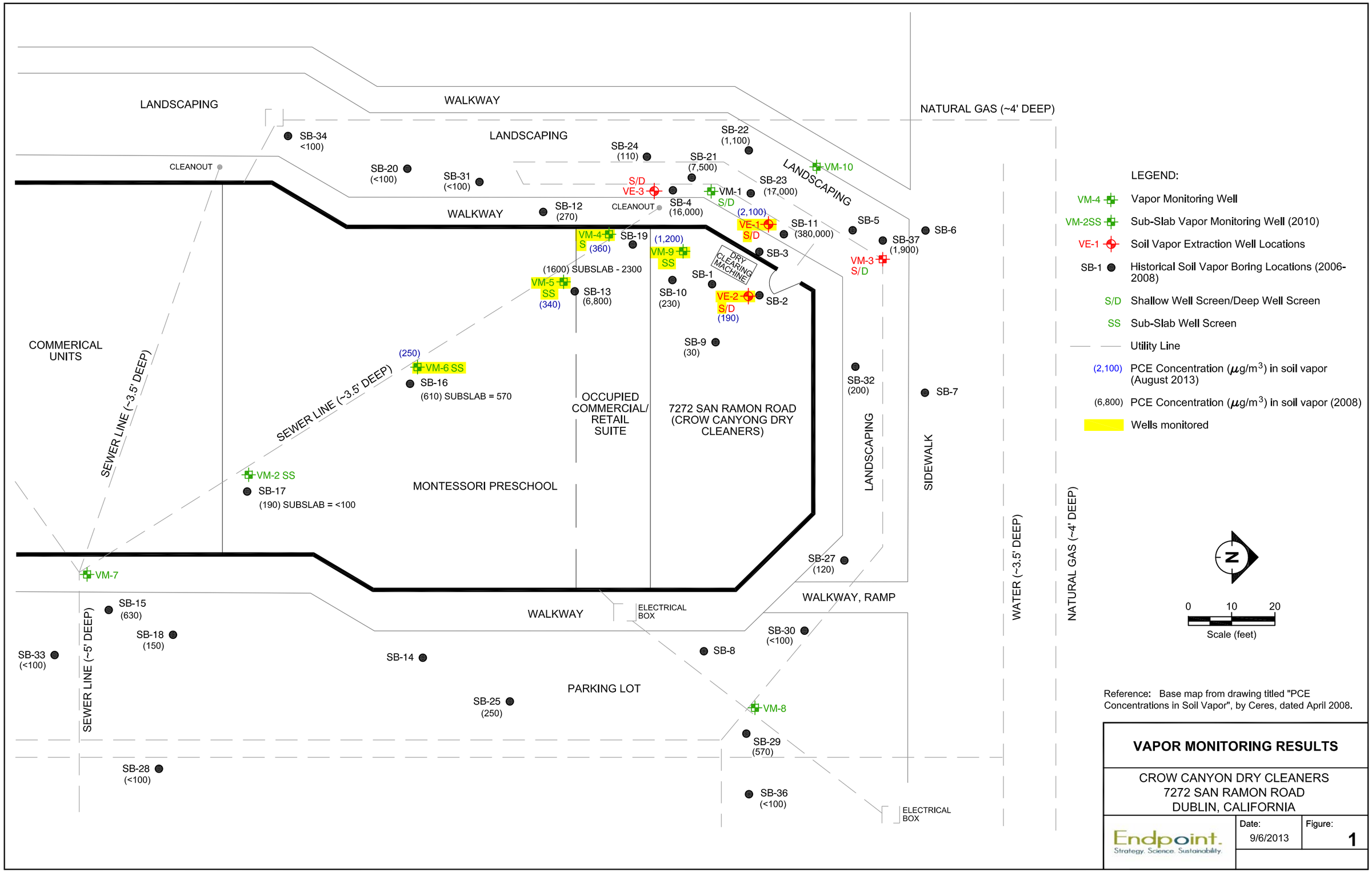
Attachments:

Table 1 - PCE Analytical Results in Soil Vapor

Figure 1 – Vapor Monitoring Results

Attachment A – Laboratory Analytical Report for August 2013 Vapor Sampling
Attachment B – Field Data Sheets

Figure



Reference: Base map from drawing titled "PCE Concentrations in Soil Vapor", by Ceres, dated April 2008.

VAPOR MONITORING RESULTS

CROW CANYON DRY CLEANERS
7272 SAN RAMON ROAD
DUBLIN, CALIFORNIA

Endpoint. Strategy. Science. Sustainability.

Date: 9/6/2013

Figure: 1

Table

Table 1
PCE Vapor Concentrations
Vapor Monitoring and Extraction Well Locations
Crow Canyon Dry Clenaers
7272 San Ramon Road,
Dublin, California

	PCE Concentrations (ug/m^3)								
Well I.D.	**7/18/2009 to 7/30/2009 Baseline-Purge Test-SVE Shakedown Sampling Events**	**9/1/2009 1 Month after operation of SVE system**	**9/28/2009 2 Months after operation of SVE system**	**11/4/09 ~ 1 month after shutdown of SVE system**	**8/26/10 ~ 11 months after shutdown of SVE system**	**1/12/11 ~ 17 months after shutdown of SVE system**	**6/27/2012* ~ 34 months after shutdown of SVE system**	**10/9/2012 ~ 3.5 months after SVE restart****	**08/23/2013 ~ 5 months after shutdown of SVE system**
VE-1S	1,200	23	<14	970	1,100	19,000	12,000	41	2,100
VE-1D	420	300	<14	770	NS	NS	4,500	NS	NS
VE-2S	5,900	<14	200	500	3,400	13,000	14,000	35	190
VE-2D	1,100	<14	<14	350	NS	NS	5,100	NS	NS
VE-3S	2,200	30	38	<14	870	260	<500	NS	NS
VE-3D	3,800	24	51	<14	NS	NS	790	NS	NS
VM-1S	<73	-	<14	20	2,600	580	1,200	NS	NS
VM-1D	160	-	16	140	NS	NS	520	NS	NS
VM-3S	8,100	-	55	81	NS	NS	NS	NS	NS
VM-3D	34J	-	<14	300	NS	NS	NS	NS	NS
VM-4S	10,000	-	180	310	1,100	1,100	2,100	22	360
VM-5SS	-	-	-	-	1,300	1,100	NS	68	340
VM-6SS	-	-	-	-	650	390	NS	110	250
VM-2SS	-	-	-	-	28	<14	NS	NS	NS
VM-7	-	-	-	-	310	<14	240	NS	NS
VM-8	-	-	-	-	1,300	640	820	NS	NS
VM-9SS	-	-	-	-	11,000	14,000	7,200	280	1,200
VM-10	-	-	-	-	450	210	NS	NS	NS
ESLs Commercial/Industrial Land Use: 1,400 ug/m3									

* Baseline Sampling prior to start of SVE Operations on June 28, 2012
** system shutdown one week before sampling
NS = Not Sampled
Value exceeds the Commercial/Industrial ESL

Attachment A

Laboratory Analytical Report for August 2013 Vapor Sampling

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1308864

Report Created for: Endpoint
1534 Plaza Lane #243
Burlingame, CA 94010

Project Contact: Mehrdad Javaher
Project Name: TM Dublin, Crow Canyon Rd
Project P.O.:

Project Received: 08/23/2013

Analytical Report reviewed & approved for release on 09/03/2013 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
NELAP: 12283CA ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

McCampbell Analytical, Inc.
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Glossary of Terms & Qualifier Definitions

Client: Endpoint
Project: TM Dublin, Crow Canyon Rd
WorkOrder: 1308864

Glossary Abbreviation	Description
DF	Dilution Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
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.
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Endpoint 1534 Plaza Lane #243 Burlingame, CA 94010	Client Project ID: TM Dublin, Crow Canyon Rd	Date Sampled: 08/23/13
		Date Received: 08/23/13
	Client Contact: Mehrdad Javaher	Date Reported: 09/03/13
	Client P.O.:	Date Completed: 09/03/13

Work Order: 1308864

September 03, 2013

CASE NARRATIVE REGARDING TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Advisory of April 2012.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Endpoint 1534 Plaza Lane #243 Burlingame, CA 94010	Client Project ID: TM Dublin, Crow Canyon Rd	Date Sampled: 08/23/13
		Date Received: 08/23/13
	Client Contact: Mehrdad Javaher	Date Extracted: 09/03/13
	Client P.O.:	Date Analyzed: 09/03/13

Helium*

Extraction method: ASTM D 1946-90 Analytical methods: ASTM D 1946-90 Work Order: 1308864

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Helium	DF	% SS	Comments
004A	VM-4S	Soil Gas	12.93	25.76	0.15	1	N/A	
006A	VM-6SS	Soil Gas	13.42	26.75	1.9	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	psia	psia	NA	NA
	SoilGas	psia	psia	0.005	%

* vapor samples are reported in %.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

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Endpoint	Client Project ID: TM Dublin, Crow Canyon Rd	Date Sampled: 08/23/13
		Date Received: 08/23/13
1534 Plaza Lane #243	Client Contact: Mehrdad Javaher	Date Extracted: 08/27/13-08/29/13
Burlingame, CA 94010	Client P.O.:	Date Analyzed: 08/27/13-08/29/13

TPH gas + Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 | Analytical Method: TO15 | Work Order: 1308864

Lab ID	1308864-001A	1308864-002A	1308864-003A	1308864-004A	Reporting Limit for DF =1	
Client ID	VE-2S	VE-1S	VM-9SS	VM-4S		
Matrix	Soil Gas	Soil Gas	Soil Gas	Soil Gas		
DF	1	1	1	1	Soil Gas	W
Initial Pressure (psia)	12.83	13.08	13.18	12.93		
Final Pressure (psia)	25.56	26.07	26.28	25.76		
Compound	**Concentration**				µg/m³	ug/L
Bromodichloromethane	ND	ND	ND	ND	3.5	NA
Bromoform	ND<5.2	ND<5.2	ND<5.2	ND<5.2	5.25	NA
Bromomethane	ND<2.0	ND<2.0	ND<2.0	ND<2.0	1.95	NA
Carbon Tetrachloride	ND	ND	ND	ND	3.2	NA
Chlorobenzene	ND<2.4	ND<2.4	ND<2.4	ND<2.4	2.35	NA
Chloroethane	ND<1.3	ND<1.3	ND<1.3	2.1	1.34	NA
Chloroform	ND<2.4	ND<2.4	ND<2.4	ND<2.4	2.45	NA
Chloromethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.05	NA
Dibromochloromethane	ND<4.4	ND<4.4	ND<4.4	ND<4.4	4.35	NA
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	3.9	NA
1,2-Dichlorobenzene	ND<3.0	ND<3.0	ND<3.0	ND<3.0	3.05	NA
1,3-Dichlorobenzene	ND<3.0	ND<3.0	ND<3.0	ND<3.0	3.05	NA
1,4-Dichlorobenzene	ND<3.0	ND<3.0	ND<3.0	ND<3.0	3.05	NA
Dichlorodifluoromethane	ND	ND	2.5	2.7	2.5	NA
1,1-Dichloroethane	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2.05	NA
1,2-Dichloroethane (1,2-DCA)	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2.05	NA
1,1-Dichloroethene	ND	ND	ND	ND	2.0	NA
cis-1,2-Dichloroethene	ND	ND	4.4	ND	2.0	NA
trans-1,2-Dichloroethene	ND	ND	3.2	ND	2.0	NA
1,2-Dichloropropane	ND<2.4	ND<2.4	ND<2.4	ND<2.4	2.35	NA
cis-1,3-Dichloropropene	ND	ND	ND	ND	2.3	NA
trans-1,3-Dichloropropene	ND	ND	ND	ND	2.3	NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND<3.6	ND<3.6	ND<3.6	ND<3.6	3.55	NA
Freon 113	ND	ND	ND	ND	3.9	NA
Methylene chloride	ND<1.8	ND<1.8	ND<1.8	ND<1.8	1.75	NA
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	3.5	NA
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3.5	NA
Tetrachloroethene	190	2100	1200	360	3.45	NA
1,2,4-Trichlorobenzene	ND<3.8	ND<3.8	ND<3.8	ND<3.8	3.75	NA
1,1,1-Trichloroethane	ND<2.8	ND<2.8	ND<2.8	ND<2.8	2.75	NA
1,1,2-Trichloroethane	ND<2.8	ND<2.8	ND<2.8	ND<2.8	2.75	NA
Trichloroethene	ND<2.8	10	32	ND<2.8	2.75	NA
Trichlorofluoromethane	ND<2.8	ND<2.8	ND<2.8	ND<2.8	2.85	NA
Vinyl Chloride	ND	ND	ND	ND	1.3	NA
Surrogate Recoveries (%)						
%SS1:	116	115	116	114		
%SS2:	115	116	116	113		
%SS3:	114	111	114	117		
Comments						

*vapor samples are reported in µg/m³.

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

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

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

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Endpoint	Client Project ID: TM Dublin, Crow Canyon Rd	Date Sampled: 08/23/13
		Date Received: 08/23/13
1534 Plaza Lane #243	Client Contact: Mehrdad Javaher	Date Extracted: 08/27/13-08/29/13
Burlingame, CA 94010	Client P.O.:	Date Analyzed: 08/27/13-08/29/13

TPH gas + Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 | Analytical Method: TO15 | Work Order: 1308864

Lab ID	1308864-005A	1308864-006A			Reporting Limit for DF =1	
Client ID	VM-5SS	VM-6SS				
Matrix	Soil Gas	Soil Gas				
DF	1	1			Soil Gas	W
Initial Pressure (psia)	13.21	13.42				
Final Pressure (psia)	26.32	26.75				
Compound	**Concentration**				µg/m³	ug/L
Bromodichloromethane	ND	ND			3.5	NA
Bromoform	ND<5.2	ND<5.2			5.25	NA
Bromomethane	ND<2.0	ND<2.0			1.95	NA
Carbon Tetrachloride	ND	ND			3.2	NA
Chlorobenzene	ND<2.4	ND<2.4			2.35	NA
Chloroethane	ND<1.3	ND<1.3			1.34	NA
Chloroform	ND<2.4	ND<2.4			2.45	NA
Chloromethane	ND<1.0	ND<1.0			1.05	NA
Dibromochloromethane	ND<4.4	ND<4.4			4.35	NA
1,2-Dibromoethane (EDB)	ND	ND			3.9	NA
1,2-Dichlorobenzene	ND<3.0	ND<3.0			3.05	NA
1,3-Dichlorobenzene	ND<3.0	ND<3.0			3.05	NA
1,4-Dichlorobenzene	ND<3.0	ND<3.0			3.05	NA
Dichlorodifluoromethane	2.7	ND			2.5	NA
1,1-Dichloroethane	ND<2.0	ND<2.0			2.05	NA
1,2-Dichloroethane (1,2-DCA)	ND<2.0	ND<2.0			2.05	NA
1,1-Dichloroethene	ND	ND			2.0	NA
cis-1,2-Dichloroethene	ND	ND			2.0	NA
trans-1,2-Dichloroethene	ND	ND			2.0	NA
1,2-Dichloropropane	ND<2.4	ND<2.4			2.35	NA
cis-1,3-Dichloropropene	ND	ND			2.3	NA
trans-1,3-Dichloropropene	ND	ND			2.3	NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND<3.6	ND<3.6			3.55	NA
Freon 113	ND	ND			3.9	NA
Methylene chloride	ND<1.8	ND<1.8			1.75	NA
1,1,1,2-Tetrachloroethane	ND	ND			3.5	NA
1,1,2,2-Tetrachloroethane	ND	ND			3.5	NA
Tetrachloroethene	340	250			3.45	NA
1,2,4-Trichlorobenzene	ND<3.8	ND<3.8			3.75	NA
1,1,1-Trichloroethane	ND<2.8	ND<2.8			2.75	NA
1,1,2-Trichloroethane	ND<2.8	ND<2.8			2.75	NA
Trichloroethene	ND<2.8	ND<2.8			2.75	NA
Trichlorofluoromethane	ND<2.8	ND<2.8			2.85	NA
Vinyl Chloride	ND	ND			1.3	NA
Surrogate Recoveries (%)						
%SS1:	116	116				
%SS2:	115	113				
%SS3:	114	111				
Comments						

*vapor samples are reported in µg/m³.

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

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

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

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Endpoint 1534 Plaza Lane #243 Burlingame, CA 94010	Client Project ID: TM Dublin, Crow Canyon Rd	Date Sampled: 08/23/13
		Date Received: 08/23/13
	Client Contact: Mehrdad Javaher	Date Extracted: 08/27/13
	Client P.O.:	Date Analyzed: 08/27/13

Leak Check Compound*

Extraction method: TO15 Analytical methods: TO15 Work Order: 1308864

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Isopropyl Alcohol	DF	% SS	Comments
001A	VE-2S	Soil Gas	12.83	25.56	ND	1	N/A	
002A	VE-1S	Soil Gas	13.08	26.07	ND	1	N/A	
003A	VM-9SS	Soil Gas	13.18	26.28	ND	1	N/A	
005A	VM-5SS	Soil Gas	13.21	26.32	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	psia	psia	NA		NA
	SoilGas	psia	psia	50		µg/m³

* leak check compound is reported in µg/m³.

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

The (liquid) Leak Check reference is:

DTSC, Advisory-Active Soil Gas Investigations, April 2012, page 17, section 4.2.2.1:

"The laboratory reports should quantify and annotate all detections of the leak check compound at the reporting limit of the target analytes."

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

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Quality Control Report

Client:	Endpoint	**WorkOrder:**	1308864
Date Prepared:	9/3/13	**BatchID:**	81260
Date Analyzed:	9/3/13	**Extraction Method**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	Soilgas	**Unit:**	%
Project:	TM Dublin, Crow Canyon Rd	**Sample ID:**	MB/LCS-81260

QC SUMMARY REPORT FOR ASTM D 1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Helium	ND	0.01104	0.0050	0.010	-	110	60-140

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"When Quality Counts"

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Quality Control Report

Client:	Endpoint	**WorkOrder:**	1308864
Date Prepared:	8/27/13	**BatchID:**	81196
Date Analyzed:	8/27/13	**Extraction Method**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	Soilgas	**Unit:**	µg/m³
Project:	TM Dublin, Crow Canyon Rd	**Sample ID:**	MB/LCS-81196

QC SUMMARY REPORT FOR TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS	LCS %REC	LCS Limits
Acetone	ND	-	25	-	-	-	-
Acrylonitrile	ND	-	0.50	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.50	-	-	-	-
Benzene	ND	-	0.50	-	-	-	-
Benzyl chloride	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	21.4	0.50	25	-	85.6	60-140
Bromoform	ND	27.24	0.50	25	-	109	60-140
Bromomethane	ND	-	0.50	-	-	-	-
1,3-Butadiene	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	25	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	10	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	22.47	0.50	25	-	89.9	60-140
Chlorobenzene	ND	20.13	0.50	25	-	80.5	60-140
Chloroethane	ND	22.48	0.50	25	-	89.9	60-140
Chloroform	ND	19.93	0.50	25	-	79.7	60-140
Chloromethane	ND	19.54	0.50	25	-	78.2	60-140
Cyclohexane	ND	-	5.0	-	-	-	-
Dibromochloromethane	ND	23.73	0.50	25	-	94.9	60-140
1,2-Dibromo-3-chloropropane	ND	-	0.012	-	-	-	-
1,2-Dibromoethane (EDB)	ND	20.13	0.50	25	-	80.5	60-140
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	20.47	0.50	25	-	81.9	60-140
1,4-Dichlorobenzene	ND	19.36	0.50	25	-	77.4	60-140
Dichlorodifluoromethane	ND	22.75	0.50	25	-	91	60-140
1,1-Dichloroethane	ND	22.33	0.50	25	-	89.3	60-140
1,2-Dichloroethane (1,2-DCA)	ND	21.05	0.50	25	-	84.2	60-140
1,1-Dichloroethene	ND	-	0.50	-	-	-	-
cis-1,2-Dichloroethene	ND	21.6	0.50	25	-	86.4	60-140
trans-1,2-Dichloroethene	ND	21.98	0.50	25	-	87.9	60-140
1,2-Dichloropropane	ND	18.65	0.50	25	-	74.6	60-140
cis-1,3-Dichloropropene	ND	21.63	0.50	25	-	86.5	60-140
trans-1,3-Dichloropropene	ND	23.04	0.50	25	-	92.2	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	21.51	0.50	25	-	86	60-140
Diisopropyl ether (DIPE)	ND	-	0.50	-	-	-	-
1,4-Dioxane	ND	-	0.50	-	-	-	-
Ethanol	ND	-	50	-	-	-	-
Ethyl acetate	ND	-	0.50	-	-	-	-

(Cont.)

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Quality Control Report

Client:	Endpoint	**WorkOrder:**	1308864
Date Prepared:	8/27/13	**BatchID:**	81196
Date Analyzed:	8/27/13	**Extraction Method**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	Soilgas	**Unit:**	µg/m³
Project:	TM Dublin, Crow Canyon Rd	**Sample ID:**	MB/LCS-81196

QC SUMMARY REPORT FOR TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS	LCS %REC	LCS Limits
Ethyl tert-butyl ether (ETBE)	ND	-	0.50	-	-	-	-
Ethylbenzene	ND	-	0.50	-	-	-	-
4-Ethyltoluene	ND	-	0.50	-	-	-	-
Freon 113	ND	21.57	0.50	25	-	86.3	60-140
Heptane	ND	-	5.0	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexane	ND	-	5.0	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.50	-	-	-	-
Methylene chloride	ND	19.41	0.50	25	-	77.6	60-140
Naphthalene	ND	-	1.0	-	-	-	-
Propene	ND	-	50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	21.9	0.50	25	-	87.6	60-140
1,1,2,2-Tetrachloroethane	ND	18.56	0.50	25	-	74.2	60-140
Tetrachloroethene	ND	19.32	0.50	25	-	77.3	60-140
Tetrahydrofuran	ND	-	0.50	-	-	-	-
Toluene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	21.38	0.50	25	-	85.4	60-140
1,1,1-Trichloroethane	ND	24.32	0.50	25	-	97.3	60-140
1,1,2-Trichloroethane	ND	18.68	0.50	25	-	74.7	60-140
Trichloroethene	ND	18.43	0.50	25	-	73.7	60-140
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Acetate	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	19.8	0.50	25	-	79.2	60-140
Xylenes, Total	ND	70.06	1.5	75	-	93.4	60-140
Surrogate Recovery							
1,2-DCA-d4	570.2	582.5		500	114	116	60-140
toluene-d8	562.6	572.2		500	113	114	60-140
4-BFB	541.2	556.7		500	108	111	60-140

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1308864 **ClientCode: EPB**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Mehrdad Javaher
Endpoint
1534 Plaza Lane #243
Burlingame, CA 94010
415-706-8935 FAX:

Email: mehrdad@endpoint-inc.com
cc:
PO:
ProjectNo: TM Dublin, Crow Canyon Rd

Bill to:
Accounts Payable
Endpoint
1534 Plaza Lane #243
Burlingame, CA 94010

Requested TAT: 5 days

Date Received: **08/23/2013**
Date Printed: **09/03/2013**

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
1308864-001	VE-2S	Soil Gas	8/23/2013 9:04	☐	A	A										
1308864-002	VE-1S	Soil Gas	8/23/2013 9:36	☐		A										
1308864-003	VM-9SS	Soil Gas	8/23/2013 10:58	☐		A										
1308864-004	VM-4S	Soil Gas	8/23/2013 11:38	☐		A										
1308864-005	VM-5SS	Soil Gas	8/23/2013 12:05	☐		A										
1308864-006	VM-6SS	Soil Gas	8/23/2013 12:22	☐		A										

Test Legend:

1	PRUNUSEDSUMMA	2	5-8010_Scan-SIM_SOIL(UG	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A contain testgroup.

Prepared by: Maria 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.

1308864

McCAMPBELL ANALYTICAL INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Mehrdad	Bill To: Endpoint
Company: Endpoint Consulting Inc	
1534 Plaza Ln #243	
Burlingame CA	E-Mail:
Tele: (415) 706-8935	Fax: ( )
Project #: TMDublin	Project Name: Crow Canyon
Project Location: 7272 Scenic Ranch Rd	
Sampler Signature:	

Lab Use Only

Pressurized By	Date	Pressurization Gas N2	Pressurization Gas He

Helium Shroud SN#:

Other:

Notes: TO-15 8010 Listed

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Manifold / Sampler Kit SN#	Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
VE Vm-2s	8/27/13	0904	6200	981	TO-15 Iso		X	29	-4		
VE Vm-1s		936	6164	986	Iso			-30	-4		
Vm-9ss		1058	6168	983				-27	-4		
Vm-4s		1138	7508	980	He			-30	-4		
Vm-5ss		1205	6412	984				-30	-4		
Vm-6ss		1222	7531	988	He			-30	-4		

VE OM MJ 9-3-13

Relinquished By:	Date:	Time:	Received By:
	8/28/13	1532	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Temp (°C): _____ Work Order #: _____

Equipment Condition: _____

Shipped Via: _____

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Sample Receipt Checklist

Client Name: **Endpoint**
Date and Time Received: **8/23/2013 1:32:00 PM**
Project Name: **TM Dublin, Crow Canyon Rd**
LogIn Reviewed by: Maria Venegas
WorkOrder N°: **1308864** Matrix: Soil Gas
Carrier: Client Drop-In

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:		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 ☑	

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

Comments:

Attachment B

Field Data Sheets

Soil Vapor Probe Purging/Sampling Log

Project Name: Crow Company
Job Number: TM DUBLIN
Date: 6/23/13
Sampler(s): S Pocsik
Sample ID and Time: VE-2S - 0904
Notes: Held 150 ml of VAC for 5 min

Soil Vapor Probe ID: VE-2S
Suma Can Serial #: 6200
Flow Controller #: 981
Initial Vacuum: -29
Final Vacuum: -4

Specifications

Tubing length: _____ cm
Tubing inner diameter: _____ cm
Boring diameter: _____ cm
Sandpack height: _____ cm
Probe length: _____ cm
Probe diameter: _____ cm
Summa flow rate: 150 mL/min
Purge flow rate: 300 mL/min

Purge Volume Calculation

Purge volume = tubing + sandpack
Tubing = Pi * (inner diameter/2)^2 * length
= cm3
Sandpack = Pi * (boring diameter/2)^2 * sandpack height * porosity
= cm3

1350
x 3
4050

Single purge volume: 1350 cm^3
Total purge volumes extracted: 3(1
Pi = 3.1416
1 inch = 2.54 cm
1 ml = 1 cm3

Start Time: 0849
Total Purge Time: 14
Est. max. porosity = 0.375

Time	He in Shroud %	Purge Time (min./sec.)	He in Purge Sample % or ppm	VOCs ppbv / ppm	Comments
	N/A		N/A		
0842		0			
0844		0		1.3	
0849		5		.3	1500
0854		10		.3	3000
0858		14		.4	4200
0906		—		.4	

Soil Vapor Probe Purging/Sampling Log

Project Name: Crow Canyon
Job Number: TM-DUBLIN
Date: 8/23/13
Sampler(s): S. Polstra
Sample ID and Time: VE-1S-0936
Notes: Held 150" of H_2O for 5 min.

Soil Vapor Probe ID: VE-1S
Suma Can Serial #: 6164
Flow Controller #: 986
Initial Vacuum: -30
Final Vacuum: -4

Specifications

Tubing length: _____ cm
Tubing inner diameter: _____ cm
Boring diameter: _____ cm
Sandpack height: _____ cm
Probe length: _____ cm
Probe diameter: _____ cm
Summa flow rate: 150 mL/min
Purge flow rate: 300 mL/min

Purge Volume Calculation

Purge volume = tubing + sandpack
Tubing = Pi * (inner diameter/2)^2 * length
= cm3
Sandpack = Pi * (boring diameter/2)^2 * sandpack height * porosity
= cm3
Single purge volume: 1350 cm^3
Total purge volumes extracted: 3.1

Start Time: 0916
Total Purge Time: 14

Pi = 3.1416
1 inch = 2.54 cm
1 ml = 1 cm3
Est. max. porosity = 0.375

Time	He in Shroud %	Purge Time (min./sec.)	He in Purge Sample % or ppm	VOCs ppbv / (ppm)	Comments
	N/A		N/A		
0916		0		1.8	
0921		5		1.2	
0926		10		1.3	
0930		14		1.1	
0938		—		1.8	

Soil Vapor Probe Purging/Sampling Log

Project Name: Cloud Canyon
Job Number: TM Dublin
Date: 8/23/13
Sampler(s): S. Poulson
Sample ID and Time: VM-955 – 1050
Notes: Held 145" of Vac for 5 min

Soil Vapor Probe ID: VM-955
Suma Can Serial #: 6168
Flow Controller #: 983
Initial Vacuum: -29
Final Vacuum: -4

Specifications

Tubing length: _____ cm
Tubing inner diameter: _____ cm
Boring diameter: _____ cm
Sandpack height: _____ cm
Probe length: _____ cm
Probe diameter: _____ cm
Summa flow rate: 150 mL/min
Purge flow rate: 50 mL/min

Purge Volume Calculation

Purge volume = tubing + sandpack
Tubing = Pi * (inner diameter/2)^2 * length
= cm3
Sandpack = Pi * (boring diameter/2)^2 * sandpack height * porosity
= cm3
Single purge volume: 21 cm^3
Total purge volumes extracted: 4.7

Start Time: 1051
Total Purge Time: 2

Pi = 3.1416
1 inch = 2.54 cm
Est. max. porosity = 0.375
1 ml = 1 cm3

Time	He in Shroud %	Purge Time (min./sec.)	He in Purge Sample % or ppm	VOCs ppbv / ppm	Comments
	27.2		%		
1051		0			
1052	26.9	1			
1053	26.6	2	0 %	3.0	
~~1100~~					
1054	26.2				
1056	25.8				
1058	25.1				
1059	25.0				
1101	24.7		0%	1.9	

Soil Vapor Probe Purging/Sampling Log

Project Name: Crow Canyon
Job Number: IN DUBLIN
Date: 8/23/13
Sampler(s): S. Poulton
Sample ID and Time: VM-4S ~ 1138
Notes: Held 150" Vac for 5m.w

Soil Vapor Probe ID: VM-4S
Suma Can Serial #: 7508
Flow Controller #: 280
Initial Vacuum: -30
Final Vacuum: -4

Specifications

Tubing length: _____ cm
Tubing inner diameter: _____ cm
Boring diameter: _____ cm
Sandpack height: _____ cm
Probe length: _____ cm
Probe diameter: _____ cm
Summa flow rate: 150 mL/min
Purge flow rate: 300 mL/min

Purge Volume Calculation

Purge volume = tubing + sandpack
Tubing = Pi * (inner diameter/2)^2 * length
= cm3
Sandpack = Pi * (boring diameter/2)^2 * sandpack height * porosity
= cm3
Single purge volume: 1235 cm^3
Total purge volumes extracted: 3x16

Start Time: 1120
Total Purge Time: 13

Pi = 3.1416 | 1 inch = 2.54 cm | 1 ml = 1 cm3 | Est. max. porosity = 0.375

Time	He in Shroud %	Purge Time (min./sec.)	He in Purge Sample % or ppm	VOCs ppbv / ppm	Comments
	29.6		0 %		
1120	29.3	0	0	.7	
1125	28.9	5	0	.4	1500
1129	28.2	~~8~~ 9	6	.4	2700
1133	27.6	13	0	.3	3900
1134	27.5				
1136	27.0				
1138	26.4				
1139	26.1		0	.5	

Soil Vapor Probe Purging/Sampling Log

Project Name: Crow Canyon
Job Number: Jm Public
Date: 8/23/13
Sampler(s): S. Poulsen
Sample ID and Time: VM-555 - 1205
Notes: Held 150 ml VAC for 6 min

Soil Vapor Probe ID: VM-555
Suma Can Serial #: 6412
Flow Controller #: 984
Initial Vacuum: -30
Final Vacuum: -4

Specifications

Tubing length: _____ cm
Tubing inner diameter: _____ cm
Boring diameter: _____ cm
Sandpack height: _____ cm
Probe length: _____ cm
Probe diameter: _____ cm
Summa flow rate: 150 mL/min
Purge flow rate: 50 mL/min

Purge Volume Calculation

Purge volume = tubing + sandpack
Tubing = Pi * (inner diameter/2)^2 * length
= cm3
Sandpack = Pi * (boring diameter/2)^2 * sandpack height * porosity
= cm3
Single purge volume: 11 cm^3
Total purge volumes extracted: 9

Start Time: 1154
Total Purge Time: 2

Pi = 3.1416 | 1 inch = 2.54 cm | Est. max. porosity = 0.375
1 ml = 1 cm3

Time	He in Shroud %	Purge Time (min./sec.)	He in Purge Sample (% or ppm)	VOCs ppbv / (ppm)	Comments
	30.2		0		
1154	30.0	0	"		
1156	29.4	2	0	.7	
1158	29.1				
1200	28.6				
1202	28.3				
1204	27.9				
1205	27.2		0%	.4	

Soil Vapor Probe Purging/Sampling Log

Project Name: Crow Canyon
Job Number: TM Dublin
Date: 8/23/13
Sampler(s): J. Polster
Sample ID and Time: VM-6SS — 1222
Notes: Held 150" Vac for 5 min

Soil Vapor Probe ID: VM-6SS
Suma Can Serial #: 1753
Flow Controller #: 988
Initial Vacuum: -30
Final Vacuum: -4

Specifications

Tubing length: _____ cm
Tubing inner diameter: _____ cm
Boring diameter: _____ cm
Sandpack height: _____ cm
Probe length: _____ cm
Probe diameter: _____ cm
Summa flow rate: 150 mL/min
Purge flow rate: 50 mL/min

Purge Volume Calculation

Purge volume = tubing + sandpack
Tubing = Pi * (inner diameter/2)^2 * length
= cm3
Sandpack = Pi * (boring diameter/2)^2 * sandpack height * porosity
= cm3
Single purge volume: 11 cm^3
Total purge volumes extracted: 9

Start Time: 1212
Total Purge Time: 2

Pi = 3.1416 | 1 inch = 2.54 cm | Est. max. porosity = 0.375
1 ml = 1 cm3

Time	He in Shroud %	Purge Time (min./sec.)	He in Purge Sample % or ppm	VOCs ppbv / (ppm)	Comments
	26.9		0		
1212	26.8	0		0	
1214	26.1	2		.16	
1216	25.7				
1218	25.4				
1220	24.9				
1222	24.3		0%	.4	

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

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Melissa Ja	Bill To: Endpoint
Company: Endpoint Consulting Inc	
1534 Plt Zst. Ln #243	
Bodega CA	E-Mail:
Tele: (415) 706-8955	Fax: ( )
Project #: TM Dublin	Project Name: Crow Canyon
Project Location: 7272 Silver Ranch Rd	
Sampler Signature:	

Lab Use Only

Pressurized By	Date	Pressurization Gas N2	Pressurization Gas He

Helium Shroud SN#:

Other:

Notes: TO-15 8010 Listed

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Manifold / Sampler Kit SN#	Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)
VM-2S	3/13/13	0904	6200	981	TO-15 TXO		X	-29	-4		
VM-1S		936	6164	986	TSO			-30	-4		
VM-9SS		1058	6168	983				-29	-4		
VM-4S		1138	7508	980				-30	-4		
VM-5SS		1205	6412	984				-30	-4		
VM-6SS		1222	7531	988				-30	-4		

Relinquished By:	Date:	Time:	Received By:
	3/13/13	1532	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Temp (°C): _____ Work Order #: _____

Equipment Condition: _____

Shipped Via: _____