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By Alameda County Environmental Health 9:20 am, May 13, 2016

May 9, 2016

Ms. Dilan Roe
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: CRAWL SPACE AIR SAMPLING REPORT CERTIFICATION
ACEH Case # RO 0000357
Snow Cleaners
2878 Coolidge Avenue
Oakland, CA

Dear Mr. Wickham:

You will find enclosed one copy of the following document prepared by P&D Environmental, Inc.

- Crawl Space Air Sampling Report dated May 9, 2016 (document 0298.R19).

I declare, under penalty of perjury, that the information and/or recommendations contained in the above-mentioned work plan for the subject site is true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to call me at (800) 818-7669.

Cordially,
Snow Cleaners, Inc.

Harold Turner
President

0298.L100

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

May 9, 2016
Report 0298.R19

Mr. Harold Turner
Snow Cleaners, Inc.
2678 Coolidge Avenue
Oakland, CA

SUBJECT: CRAWL SPACE AIR SAMPLING REPORT
(CS1 THROUGH CS3 AND AA1)
ACDEH Case # RO 0000357
Snow Cleaners
2678 Coolidge Avenue
Oakland, CA

Dear Mr. Turner:

P&D Environmental, Inc. (P&D) has prepared this report documenting the collection of crawl space air samples CS1 and CS2 at 3320 Davis Street and CS3 at 2682 Coolidge Avenue and ambient air sample Ambient 1 at 3319 Davis Street in Oakland, California on April 26, 2016. The crawl space and ambient air samples were collected during an 8-hour period during the day. This work was performed in response to a letter from the Alameda County Department of Environmental Health (ACDEH) dated January 20, 2016 requesting that the samples be collected in accordance with procedures set forth in P&D's Subsurface Investigation Work Plan dated November 24, 2009 (document 0298.W4).

A Site Location Map (Figure 1) and a Site Vicinity Map Detail showing the sample collection locations (Figure 2) are attached with this report. All work was performed under the direct supervision of a California professional geologist.

BACKGROUND

Underground Storage Tanks (USTs) associated with the former dry cleaning facility were removed and associated limited excavation of the UST pit was performed by others in 1990. In January, 1994 two groundwater monitoring wells (MW1 and MW2) were installed by others at offsite locations in Davis Street near the former UST pit. P&D subsequently performed a review of available files for the site, installed an absorbent sock in well MW2 as an interim remedial measure for collection of free product, and collected water samples from the wells on February 20, 2003. Documentation of the well sampling is provided in P&D's March 10, 2003 Groundwater Monitoring and Sampling Report (document 0298.R1).

P&D subsequently collected groundwater grab samples, creek water samples, soil gas samples, and oversaw the installation of groundwater monitoring wells MW3 and MW4 at offsite locations on September 9, 2008. A detailed discussion of the investigation including multiple figures showing

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the extent of impacted groundwater and geologic cross sections A-A' through G-G' are provided in P&D's Subsurface Investigation Report dated August 19, 2009 (document 0298.R6).

Documentation of the collection of additional soil gas samples and the collection of crawl space air samples is provided in P&D's March 22, 2010 Soil Gas and Crawl Space Air Investigation Report (document 0298.R8) and P&D's September 15, 2010 Crawl Space Air Investigation Report (document 0298.R10). On September 27 through 29, 2010 P&D oversaw the installation of dual-phase extraction wells DP1 through DP4, and vapor extraction wells VE1 and VE2. The initial monitoring and sampling of the new wells was performed on October 15, 2010 in conjunction with the periodic monitoring and sampling of the existing offsite groundwater monitoring wells. Based on the initial groundwater sample results, the report included revised figures showing the extent of petroleum and volatile organic compounds (VOCs) in soil and groundwater. Documentation of the well installation is provided in P&D's Well Installation Report dated December 2, 2010 (document 0298.R11).

On December 13, 2010 a vapor extraction feasibility test was performed at well DP1. During 2011 a discharge permit was obtained from East Bay Municipal Utility District (EBMUD), a groundwater extraction pump was installed in well DP1, and groundwater extraction feasibility testing was performed beginning May 23, 2011 through June 2, 2011 and again from June 8 through June 30, 2011. Documentation of the vapor extraction and groundwater extraction feasibility testing is provided in P&D's April 16, 2012 Vapor Extraction and Groundwater Extraction Feasibility Test Report (document 0298.R13).

Groundwater extraction was resumed on August 28, 2012 and continued until March 21, 2013. During the December 12 and 13, 2012 well sampling event, effervescing was observed in some of the groundwater samples, and the samples were subsequently analyzed for dissolved gases. Documentation of the groundwater extraction and semi-annual well sampling is provided in P&D's March 25, 2013 Semi-Annual Groundwater Monitoring, Sampling and Remediation Status Report (document 0298.R16). Documentation of groundwater well monitoring and sampling on May 14, 2013 is provided in P&D's Groundwater Monitoring and Sampling Report (document 0298.R17).

Following receipt of an Authority To Construct dated June 3, 2013 from the Bay Area Air Quality Management District (BAAQMD) a Soil Vapor Extraction (SVE) system was constructed at the site with initial start up of the SVE system in January 2014 and subsequent restarting and testing of the system in February 2014. Based on elevated vapor concentrations the SVE system operation was discontinued at the end of February 2014. Documentation of the SVE system operation in January and February 2014 and the results of groundwater sampling events that occurred in November and December 2013, June 2014 and July 2015 are provided in P&D's January 18, 2016 Remediation Progress and Groundwater Monitoring Report (document 0298.R18).

Following receipt of a January 20, 2016 letter from the ACDEH that commented on P&D's January 18, 2016 report, P&D restarted the groundwater extraction system on February 1, 2016 with continuous operation of the groundwater treatment system beginning on April 11, 2016. Similarly, the SVE system was restarted on May 6, 2016 with continuous operation of the SVE system beginning on May 11, 2016.

FIELD ACTIVITIES

The building construction at 3320 Davis Street and at 2682 Coolidge Avenue where crawl space air samples were collected on April 26, 2016 (see Figure 2) is not slab on grade. Both structures were observed to have crawl spaces with no visible means of access to the crawl space other than through mesh-covered ventilation holes measuring approximately 4 inches tall and 12 inches long. On April 26, 2016 two air samples (CS1 and CS2) were collected from the crawl space at 3320 Davis Street and one air sample (CS3) was collected from the crawl space at 2682 Coolidge Avenue at locations shown on Figure 2 using procedures described below. In addition, one duplicate crawl space air sample (CS3-DUP) was collected using a stainless steel sampling tee at location CS3, and one ambient air sample was collected with the flow controller intake at a height of approximately 4.5 feet above the ground surface on the rear porch of the property located at 3319 Davis Street, Oakland, California (see Figure 2).

The crawl space air samples and the ambient air sample were collected during business hours into SIM-certified 6-liter Summa canisters equipped with SIM-certified 8-hour flow controllers. The duplicate sample was collected with a SIM-certified stainless steel tee

The building width at 3320 Davis Street is approximately 30 feet, and the building width at 2682 Coolidge Avenue in the vicinity of SG3 is approximately 12 feet wide. A ¼-inch outside diameter polyethylene tube was secured with wire to the end of a steel rod and the steel rod was inserted through a crawl space vent into the crawl space at each sampling location so that the end of the tube was located at each of the crawl space air sample collection locations shown on Figure 2. Following placement of the rod and tubing beneath the building, an air pump was used to purge air at 20 L/min. from each tube for approximately one minute. The end of each tube was then connected to the flow controller inlet and the valve to the Summa canister was then opened for each of the samples.

For the duplicate sample, the end of the tube was connected to the stainless steel tee. After approximately 8 hours, the valves to the Summa canisters were closed, and the Summa canisters were stored in a box and promptly shipped to the laboratory for extraction and analysis. Chain of custody procedures were observed for all sample handling.

WEATHER

Weather data, including precipitation and barometric pressure for the date of crawl space and ambient air sample collection (April 26, 2016), and for the two weeks preceding and twelve days following the sample collection event are provided in Appendix B. Review of the weather data shows that approximately 0.12 inches of precipitation occurred during the 5 days preceding the sample collection event.

The weather station is located between E 25th Street and Wakefield Avenue northwest of the intersection of E 25th Street and 23rd Avenue in Oakland at an elevation of 150 feet above sea level, approximately 0.7 miles to the west-northwest of the subject site. The subject site is located at an elevation of approximately 135 feet above sea level. An internet link to the weather station information is provided in Appendix B.

GEOLOGY AND HYDROGEOLOGY

A detailed discussion of the site geology and hydrogeology is provided in P&D's January 18, 2016 Remediation Progress and Groundwater Monitoring Report (document 0298.R18).

LABORATORY ANALYSIS

The crawl space and ambient air samples were analyzed at Eurofins Air Toxics, Limited in Folsom, California (Air Toxics). The samples were analyzed for Total Petroleum Hydrocarbons as Stoddard solvent (TPH-SS) using EPA Method TO-3. Additionally, the samples were analyzed for methyl-tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, and the Haolgenated Volatile Organic Compounds (HVOCs) Tetrachloroethene (PCE), Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE), trans-1,2-Dichloroethene (trans-1,2-DCE), and vinyl chloride using EPA Method TO-15.

The crawl space and associated ambient air sample results are summarized in Table 1 and copies of all of the laboratory analytical reports and chain of custody documentation are attached with this report as Appendix C. Historical crawl space and associated ambient air sample results are also included in Table 1.

RISK AND HAZARD ANALYSIS

The only complete pathway for contaminant exposure at the subject site is considered to be potential vapor intrusion from soil gas to crawl space air. Risk analysis is the evaluation of the predicted increased incidence of cancer resulting from exposure to Chemicals of Potential Concern (COPCs), and is reported for each COPC as the incremental carcinogenic risk. Hazard analysis is the evaluation of the predicted increased non-cancer adverse health effects resulting from exposure to COPCs, and is reported for each COPC as the hazard quotient. In addition, cumulative incremental carcinogenic risk (the total of the risks posed by all of the COPCs in a sample when all of the individual COPC risks are added together) and hazard indices (the total of the hazards posed by all of the COPCs in a sample when all of the individual COPC hazards are added together) were also calculated for all detected compounds for each sample.

The cumulative incremental risk is calculated as the increased number of cases of cancer that might develop in a population of one million people in addition to the background risk of Americans developing cancer. According to the American Cancer Society the background risk for an American eventually developing cancer during their life time is one chance in two (also expressed as 500,000 per million, or expressed as 5E-01). In determining what is an acceptable level of risk, the California Department of Toxic Substances Control (DTSC) has determined that lifetime incremental cumulative cancer risks posed by a site should not exceed 1 per million without further evaluation. The DTSC recommends that activities to reduce exposure to COPCs be evaluated when the cumulative risk exceeds 100 per million. The DTSC also recommends that further action be evaluated when the hazard quotient exceeds 1. These recommendations are based on conservative (erring on the side of caution) assumptions in determining actions associated with calculated risk or hazard.

The incremental carcinogenic risk and hazard quotient were calculated for each detected compound for each of the indoor and ambient air samples using equations for health risk-based screening levels considering a single chemical for indoor air inhalation provided in section 3.2.3 of the Interim Final (Revision 2) February 2016 San Francisco Bay RWQCB User's Guide: Derivation and Application of Environmental Screening Levels (the User's Guide). The Inhalation Unit Risk factor (IUR) value used for risk calculation and the Reference Concentration (RfC) value used for hazard calculation were obtained from the February 2016 SFRWQCB User's Guide (Revision 2) Table IP-2 Toxicity Values, and were verified to be consistent with the DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note Number 3 dated January 2016 and the US Environmental Protection Agency Region 9 Regional Screening Level indoor air values for compounds that were detected that are not listed in HHRA Note Number 3.

TPH-SS is not considered to be a carcinogen, and for this reason there is no IUR for TPH-G, and risk is not calculated for TPH-SS. In addition, DTSC does not provide a TPH-SS RfC for hazard evaluation. The TPH-SS RfC of 130 $\mu\text{g}/\text{m}^3$ that was used for calculation of the TPH-SS hazard was obtained from the February 2016 (Revision 2) RWQCB User's Guide Table IP-2 Toxicity Values.

Default exposure values provided in the February 2016 SFRWQCB User's Guide Table IP-3 for a residential exposure scenario of

- Exposure time of 24 hours per day,
- Exposure frequency of 350 days per year, and
- Exposure duration for 26 years

and default exposure values provided in the DTSC HERO Vapor Intrusion Screening Model for Soil Gas VLOOKUP Table (last updated December 2014) of

- Averaging time for carcinogens of 70 years, and
- Averaging time for non-carcinogens of 26 years

were used for evaluation of all of the crawl space air and ambient air samples. The crawl space air and associated ambient air incremental risk calculation results are provided in Table 2A, and the crawl space and associated ambient air hazard quotient calculation results are provided in Table 2B. The crawl space and associated ambient air cumulative incremental carcinogenic risk and hazard index results are summarized in Table 2C. Historical crawl space air sample and associated ambient air cumulative incremental carcinogenic risk and hazard index results are also included in the tables. The historical risk and hazard have been recalculated on the attached tables using the most current values for toxicity and exposure.

DISCUSSION AND RECOMMENDATIONS

Review of Table 1 shows that TPH-SS was detected in all of the crawl space air samples that were collected on April 26, 2016 and that TPH-SS was not detected in the ambient air sample. Review of Table 1 also shows that TCE was only detected in crawl space air sample CS2 at a concentration of 0.38 $\mu\text{g}/\text{m}^3$, and that PCE was detected in crawl space air samples CS1 and CS2 at concentrations of 0.26 and 0.99 $\mu\text{g}/\text{m}^3$, respectively.

Review of Table 2C shows that the calculated incremental risk for the April 26, 2016 crawl space air sampling event is greater than the calculated incremental risk associated with the ambient air sample. The calculated incremental risk associated with the most recent air sampling event on April 26, 2016 is 12.4 in a million at location CS1, is 14.0 in a million at location CS2, and is 13.3 in a million at location CS3 (CS3-DUP is 13.6 in a million, see Table 2C). By comparison, the calculated incremental risk for the ambient air sample is 5.0 in a million. Review of Table 2C also shows that the hazard identified for crawl space air is more than 1.0 at all crawl space air sample locations. None of the calculated risk values for any of the sampling events have exceeded 100 in a million (see Table 2C).

Review of Tables 2A and 2B shows that the risk and hazard associated with locations CS1 through CS3 is predominantly related to benzene and naphthalene. Similarly, review of Table 2A shows that the calculated risk associated with PCE in sample CS1 and TCE in sample CS2 are each less than 1 in a million. The calculated risk associated with PCE in sample CS2 is 2.08 in a million. Review of Table 2B shows that almost all of the hazard in all of the crawl space air samples is associated with the detected TPH-SS.

Naphthalene and benzene have both historically been detected in groundwater at and near the subject site at concentrations exceeding RWQCB February 2016 (Revision 2) Table GW-3 Groundwater Vapor Intrusion Human Health Risk Screening Levels for deep groundwater for a fine-coarse scenario with a residential exposure scenario. Historical evaluation of soil gas samples at a limited number of locations (SG19 through SG23) did not reveal the presence of naphthalene, and similarly naphthalene has not been detected in historical crawl space air samples. Benzene has historically been detected in both soil gas and crawl space air samples. TPH-SS has historically been detected in groundwater, soil gas, and crawl space air samples.

The detected TCE concentration of 0.38 $\mu\text{g}/\text{m}^3$ in crawl space air sample CS2 does not exceed the TCE Accelerated Response Action Level (ARAL) for a residential exposure scenario as identified in the RWQCB October 16, 2014 Draft Interim Framework for Assessment of Vapor Intrusion at TCE-Contaminated Sites in the San Francisco Bay Region. The ARAL is intended to be protective of pregnant women based on a hazard quotient of 1 for protection of developing fetuses.

Based on the sample results P&D recommends that the SVE system be increased and the same crawl spaces be re-sampled one month after the SVE system vacuum is increased. P&D also recommends that the sample results be provided to the property owners where the crawl space air samples were collected.

DISTRIBUTION

A copy of this report will be uploaded to the ACDEH and GeoTracker databases.

LIMITATIONS

This report was prepared solely for the use of Snow Cleaners, Inc. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner,

regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

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Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,
P&D Environmental, Inc.



Paul H. King
Professional Geologist #5901
Expires: 12/31/17



Attachments:

Table 1 - Summary of Crawl Space and Ambient Air Sample Results
Table 2A - Crawl Space and Ambient Air Risk Calculation Results
Table 2B - Crawl Space and Ambient Air Hazard Calculation Results
Table 2C - Crawl Space and Ambient Air Risk and Hazard Calculation Results Summary

Figure 1 - Site Location Map
Figure 2 - Site Vicinity Map Detail Showing Sample Collection Locations

Appendix A - Crawl Space Air Sampling Data Sheet
Appendix B - Weather Information
Appendix C - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

Table 1
Summary of Crawl Space and Ambient Air Sample Results

Sample ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	TPH-SS	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylenes	Naphthalene
CS1	4/26/2016	0.26	ND<0.17	ND<0.12	ND<0.62	ND<0.040	3,500	--	--	0.51	2.4	0.82	1.7	0.78	0.48, a
CS1	2/19/2010	0.38	0.44	ND<0.12	ND<0.60	ND<0.039	310	--	--	4.7	48	9.4	36	11	ND<4.0
CS1-Lab Duplicate		NA	NA	NA	NA	NA	280	--	--	--	--	--	--	--	--
CS2	4/26/2016	0.99	0.38	ND<0.12	ND<0.60	ND<0.039	1,800	--	--	0.55	3.0	0.78	1.7	0.79	0.41, a
CS2	2/19/2010	1.2	3.2	ND<0.13	ND<0.64	ND<0.041	300	--	--	5.3	50	9.3	35	10	ND<4.2
CS3	4/26/2016	ND<0.22	ND<0.17	ND<0.13	ND<0.64	ND<0.041	5,800	--	--	0.41	1.6	0.58	1.4	0.61	0.71, a
CS3	2/19/2010	0.23	ND<0.17	ND<0.12	ND<0.63	ND<0.040	ND<230	--	--	0.65	3.7	0.77	3.6	1.0	ND<4.1
CS3-DUP	4/26/2016	ND<0.22	ND<0.17	ND<0.13	ND<0.64	ND<0.041	5,000	--	--	0.42	1.5	0.59	1.4	0.62	0.72, a
CS3-DUP	2/19/2010	ND<0.21	ND<0.17	ND<0.12	ND<0.63	ND<0.040	ND<230	--	--	0.64	3.9	0.79	3.7	1.0	ND<4.1
CS4	8/9/2010	ND<0.22	1.3	ND<0.13	ND<0.65	ND<0.042	--	570	ND<0.59	1.8	4.0	0.37	1.0	0.56	ND<4.3
CS5	8/9/2010	0.36	1.7	ND<0.12	ND<0.61	ND<0.040	--	530	ND<0.56	1.6	4.1	0.38	1.0	0.56	ND<4.1
CS6	8/9/2010	ND<0.24	0.64	ND<0.14	ND<0.71	ND<0.046	--	1,000	ND<0.64	3.1	2.9	0.39	1.1	0.65	ND<4.7
CS6-DUP	8/9/2010	ND<0.24	0.64	ND<0.14	ND<0.69	ND<0.045	--	1,100	ND<0.63	3.1	2.9	0.39	1.1	0.63	ND<4.6
AMBIENT	4/26/2016	ND<0.20	ND<0.16	ND<0.12	ND<0.58	ND<0.037	ND<210	--	--	0.46	1.1	0.22	0.74	0.33	ND<3.8
AMBIENT	8/9/2010	ND<0.26	ND<0.21	ND<0.16	ND<0.78	ND<0.050	--	ND<200	ND<0.71	0.31, a	0.66	ND<0.17	ND<0.34	ND<0.17	ND<5.1
AMBIENT	2/19/2010	ND<0.22	ND<0.17	ND<0.13	ND<0.64	ND<0.041	ND<230	--	--	0.56	1.3	0.29	0.98	0.34	ND<4.2
ESL		0.48	0.48	8.3	83	0.0095	140	590	11	0.097	310	1.1	Combined = 100		0.083
Abbreviations and Notes:															
PCE = Tetrachloroethene															
TCE = Trichloroethene															
cis-1,2-DCE = cis-1,2-Dichloroethene															
trans-1,2-DCE = trans-1,2-Dichloroethene															
TPH-SS = Total Petroleum Hydrocarbons as Stoddard solvent															
TPH-G = Total Petroleum Hydrocarbons as Gasoline															
MTBE = Methyl tertiary-butyl ether															
ND = Not Detected.															
-- = Not Analyzed.															
a = Laboratory Analytical note: Estimated Value															
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board updated February 2016 (Revision 2), from Table 1A-1 – Indoor Air Direct Exposure Human Health Risk Screening Levels for Residential Land 1															
Values in bold exceed their respective ESL values.															
Results and ESLs in micrograms per cubic meter (µg/m ³), unless otherwise indicated															

Table 2A
Crawls Space and Ambient Air Risk Calculation Results

Equation		Concentration in Air	X	Exposure Time	X	Exposure Frequency	X	Exposure Duration	X	Inhalation Unit Risk Factor	all divided by	Averaging Time for Carcinogens	X	365	X	24	Calculated Individual Compound Incremental Carcinogenic Risk	Cumulative Carcinogenic Risk	Comments
Units		(ug/m3)		(hrs/day)		(days/yr)		(yrs)		(ug/m3)		(yrs)		(days/yr)		(hr/day)			
Location	Compound																		
Samples Collected April 26, 2016																			
CS1	Benzene	0.510		24		350		26		2.90E-05		70		365		24	5.27E-06		Residential Exposure
CS1	Ethylbenzene	0.820		24		350		26		2.50E-06		70		365		24	7.30E-07		
CS1	Naphthalene	0.480		24		350		26		3.40E-05		70		365		24	5.81E-06		
CS1	PCE	0.260		24		350		26		5.90E-06		70		365		24	5.46E-07		
																		1.2E-05	
CS2	Benzene	0.550		24		350		26		2.90E-05		70		365		24	5.68E-06		Residential Exposure
CS2	Ethylbenzene	0.780		24		350		26		2.50E-06		70		365		24	6.95E-07		
CS2	Naphthalene	0.410		24		350		26		3.40E-05		70		365		24	4.96E-06		
CS2	PCE	0.990		24		350		26		5.90E-06		70		365		24	2.08E-06		
CS2	TCE	0.380		24		350		26		4.10E-06		70		365		24	5.55E-07		
																		1.4E-05	
CS3	Benzene	0.41		24		350		26		2.90E-05		70		365		24	4.23E-06		Residential Exposure
CS3	Ethylbenzene	0.580		24		350		26		2.50E-06		70		365		24	5.16E-07		
CS3	Naphthalene	0.710		24		350		26		3.40E-05		70		365		24	8.60E-06		
																		1.3E-05	
CS3-DUP	Benzene	0.420		24		350		26		2.90E-05		70		365		24	4.34E-06		Residential Exposure
CS3-DUP	Ethylbenzene	0.590		24		350		26		2.50E-06		70		365		24	5.25E-07		
CS3-DUP	Naphthalene	0.720		24		350		26		3.40E-05		70		365		24	8.72E-06		
																		1.4E-05	
AMBIENT	Benzene	0.460		24		350		26		2.90E-05		70		365		24	4.75E-06		Residential Exposure
AMBIENT	Ethylbenzene	0.220		24		350		26		2.50E-06		70		365		24	1.96E-07		
																		4.9E-06	
Samples Collected August 9, 2010																			
CS4	Benzene	1.8		24		350		26		2.90E-05		70		365		24	1.86E-05		Residential Exposure
CS4	Ethylbenzene	0.37		24		350		26		2.50E-06		70		365		24	3.29E-07		
CS4	TCE	1.30		24		350		26		4.10E-06		70		365		24	1.90E-06		
																		2.1E-05	
CS5	Benzene	1.6		24		350		26		2.90E-05		70		365		24	1.65E-05		Residential Exposure
CS5	Ethylbenzene	0.38		24		350		26		2.50E-06		70		365		24	3.38E-07		
CS5	PCE	0.36		24		350		26		5.90E-06		70		365		24	7.56E-07		
CS5	TCE	1.7		24		350		26		4.10E-06		70		365		24	2.48E-06		
																		2.0E-05	
CS6	Benzene	3.10		24		350		26		2.90E-05		70		365		24	3.20E-05		Residential Exposure
CS6	Ethylbenzene	0.39		24		350		26		2.50E-06		70		365		24	3.47E-07		
CS6	TCE	0.64		24		350		26		4.10E-06		70		365		24	9.35E-07		
																		3.3E-05	
CS6-DUP	Benzene	3.10		24		350		26		2.90E-05		70		365		24	3.20E-05		Residential Exposure
CS6-DUP	Ethylbenzene	0.39		24		350		26		2.50E-06		70		365		24	3.47E-07		
CS6-DUP	TCE	0.64		24		350		26		4.10E-06		70		365		24	9.35E-07		
																		3.3E-05	
AMBIENT	Benzene	0.31		24		350		26		2.90E-05		70		365		24	3.20E-06		Residential Exposure
																		3.2E-06	
Samples Collected February 19, 2010																			
CS1	Benzene	4.7		24		350		26		2.90E-05		70		365		24	4.85E-05		Residential Exposure
CS1	Ethylbenzene	9.4		24		350		26		2.50E-06		70		365		24	8.37E-06		
CS1	PCE	0.38		24		350		26		5.90E-06		70		365		24	7.99E-07		
CS1	TCE	0.44		24		350		26		4.10E-06		70		365		24	6.43E-07		
																		5.8E-05	
CS2	Benzene	5.3		24		350		26		2.90E-05		70		365		24	5.47E-05		Residential Exposure
CS2	Ethylbenzene	9.3		24		350		26		2.50E-06		70		365		24	8.28E-06		
CS2	PCE	1.2		24		350		26		5.90E-06		70		365		24	2.52E-06		
CS2	TCE	3.2		24		350		26		4.10E-06		70		365		24	4.67E-06		
																		7.0E-05	

Table 2A
Crawls Space and Ambient Air Risk Calculation Results

Equation		Concentration in Air	X	Exposure Time	X	Exposure Frequency	X	Exposure Duration	X	Inhalation Unit Risk Factor	all divided by	Averaging Time for Carcinogens	X	365	X	24	Calculated Individual Compound Incremental Carcinogenic Risk	Cumulative Carcinogenic Risk	Comments
Units		(ug/m3)		(hrs/day)		(days/yr)		(yrs)		(ug/m3)		(yrs)		(days/yr)		(hr/day)			
CS3	Benzene	0.65		24		350		26		2.90E-05		70		365		24	6.71E-06		Residential Exposure
CS3	Ethylbenzene	0.77		24		350		26		2.50E-06		70		365		24	6.86E-07		
CS3	PCE	0.23		24		350		26		5.90E-06		70		365		24	4.83E-07		
																		7.9E-06	
CS3-DUP	Benzene	0.64		24		350		26		2.90E-05		70		365		24	6.61E-06		Residential Exposure
CS3-DUP	Ethylbenzene	0.79		24		350		26		2.50E-06		70		365		24	7.03E-07		
																		7.3E-06	
AMBIENT	Benzene	0.56		24		350		26		2.90E-05		70		365		24	5.78E-06		Residential Exposure
AMBIENT	Ethylbenzene	0.29		24		350		26		2.50E-06		70		365		24	2.58E-07		
																		6.0E-06	
Notes:																			
PCE = Tetrachloroethene.																			
TCE = Trichloroethene.																			

Table 2B
Crawl Space and Ambient Air Hazard Calculation Results

Equation		Concentration in Air	X	Exposure Time	X	Exposure Frequency	X	Exposure Duration	all divided by	Averaging Time for Non-cancer Toxic Effects	X	365	X	24	X	Reference Concentration (Rfc)	Calculated Individual Compound Hazard Quotient	Hazard Index	Comments
Units		(ug/m3)		(hrs/day)		(days/yr)		(yrs)		(yrs)		(days/yr)		(hr/day)		(ug/m3)			
Location	Compound																		
Samples Collected April 26, 2016																			
CS1	TPH-SS	3,500		24		350		26		26		365		24		1.30E+02	2.58E+01		Residential Exposure
CS1	Benzene	0.51		24		350		26		26		365		24		3.00E+00	1.63E-01		
CS1	Toluene	2.4		24		350		26		26		365		24		3.00E+02	7.67E-03		
CS1	Ethylbenzene	0.82		24		350		26		26		365		24		1.00E+03	7.86E-04		
CS1	m,p-Xylene	1.70		24		350		26		26		365		24		1.00E+02	1.63E-02		
CS1	o-Xylene	0.78		24		350		26		26		365		24		1.00E+02	7.48E-03		
CS1	Naphthalene	0.48		24		350		26		26		365		24		3.00E+00	1.53E-01		
CS1	PCE	0.26		24		350		26		26		365		24		3.50E+01	7.12E-03	2.6E+01	
CS2	TPH-SS	1,800		24		350		26		26		365		24		1.30E+02	1.33E+01		Residential Exposure
CS2	Benzene	0.55		24		350		26		26		365		24		3.00E+00	1.76E-01		
CS2	Toluene	3		24		350		26		26		365		24		3.00E+02	9.59E-03		
CS2	Ethylbenzene	0.78		24		350		26		26		365		24		1.00E+03	7.48E-04		
CS2	m,p-Xylene	1.70		24		350		26		26		365		24		1.00E+02	1.63E-02		
CS2	o-Xylene	0.79		24		350		26		26		365		24		1.00E+02	7.58E-03		
CS2	Naphthalene	0.41		24		350		26		26		365		24		3.00E+00	1.31E-01		
CS2	PCE	0.99		24		350		26		26		365		24		3.50E+01	2.71E-02		
CS2	TCE	0.38		24		350		26		26		365		24		2.00E+00	1.82E-01	1.4E+01	
CS3	TPH-SS	5,800		24		350		26		26		365		24		1.30E+02	4.28E+01		Residential Exposure
CS3	Benzene	0.41		24		350		26		26		365		24		3.00E+00	1.31E-01		
CS3	Toluene	1.6		24		350		26		26		365		24		3.00E+02	5.11E-03		
CS3	Ethylbenzene	0.58		24		350		26		26		365		24		1.00E+03	5.56E-04		
CS3	m,p-Xylene	1.40		24		350		26		26		365		24		1.00E+02	1.34E-02		
CS3	o-Xylene	0.61		24		350		26		26		365		24		1.00E+02	5.85E-03		
CS3	Naphthalene	0.71		24		350		26		26		365		24		3.00E+00	2.27E-01	4.3E+01	
CS3-DUP	TPH-SS	5,000		24		350		26		26		365		24		1.30E+02	3.69E+01		Residential Exposure
CS3-DUP	Benzene	0.42		24		350		26		26		365		24		3.00E+00	1.34E-01		
CS3-DUP	Toluene	1.5		24		350		26		26		365		24		3.00E+02	4.79E-03		
CS3-DUP	Ethylbenzene	0.59		24		350		26		26		365		24		1.00E+03	5.66E-04		
CS3-DUP	m,p-Xylene	1.40		24		350		26		26		365		24		1.00E+02	1.34E-02		
CS3-DUP	o-Xylene	0.62		24		350		26		26		365		24		1.00E+02	5.95E-03		
CS3-DUP	Naphthalene	0.72		24		350		26		26		365		24		3.00E+00	2.30E-01	3.7E+01	
AMBIENT	Benzene	0.46		24		350		26		26		365		24		3.00E+00	1.47E-01		Residential Exposure
AMBIENT	Toluene	1.1		24		350		26		26		365		24		3.00E+02	3.52E-03		
AMBIENT	Ethylbenzene	0.22		24		350		26		26		365		24		1.00E+03	2.11E-04		
AMBIENT	m,p-Xylene	0.33		24		350		26		26		365		24		1.00E+02	3.16E-03		
AMBIENT	o-Xylene	0.33		24		350		26		26		365		24		1.00E+02	3.16E-03	1.6E-01	

Table 2B
Crawl Space and Ambient Air Hazard Calculation Results

Equation		Concentration in Air	X	Exposure Time	X	Exposure Frequency	X	Exposure Duration	all divided by	Averaging Time for Non-cancer Toxic Effects	X	365	X	24	X	Reference Concentration (Rfc)	Calculated Individual Compound Hazard Quotient	Hazard Index	Comments
Units		(ug/m3)		(hrs/day)		(days/yr)		(yrs)		(yrs)		(days/yr)		(hr/day)		(ug/m3)			
Location	Compound																		
Samples Collected August 9, 2010																			
CS4	TPH-G	570		24		350		26		26		365		24		5.70E+02	9.59E-01		Residential Exposure
CS4	Benzene	1.8		24		350		26		26		365		24		3.00E+00	5.75E-01		
CS4	Toluene	4.0		24		350		26		26		365		24		3.00E+02	1.28E-02		
CS4	Ethylbenzene	0.37		24		350		26		26		365		24		1.00E+03	3.55E-04		
CS4	m,p-Xylene	1.0		24		350		26		26		365		24		1.00E+02	9.59E-03		
CS4	o-Xylene	0.56		24		350		26		26		365		24		1.00E+02	5.37E-03		
CS4	TCE	1.3		24		350		26		26		365		24		2.00E+00	6.23E-01		
																		2.2E+00	
CS5	TPH-G	530		24		350		26		26		365		24		5.70E+02	8.92E-01		Residential Exposure
CS5	Benzene	1.6		24		350		26		26		365		24		3.00E+00	5.11E-01		
CS5	Toluene	4.1		24		350		26		26		365		24		3.00E+02	1.31E-02		
CS5	Ethylbenzene	0.38		24		350		26		26		365		24		1.00E+03	3.64E-04		
CS5	m,p-Xylene	1.0		24		350		26		26		365		24		1.00E+02	9.59E-03		
CS5	o-Xylene	0.56		24		350		26		26		365		24		1.00E+02	5.37E-03		
CS5	PCE	0.36		24		350		26		26		365		24		3.50E+01	9.86E-03		
CS5	TCE	1.7		24		350		26		26		365		24		2.00E+00	8.15E-01		
																		2.3E+00	
CS6	TPH-G	1,000		24		350		26		26		365		24		5.70E+02	1.68E+00		Residential Exposure
CS6	Benzene	3.1		24		350		26		26		365		24		3.00E+00	9.91E-01		
CS6	Toluene	2.9		24		350		26		26		365		24		3.00E+02	9.27E-03		
CS6	Ethylbenzene	0.39		24		350		26		26		365		24		1.00E+03	3.74E-04		
CS6	m,p-Xylene	1.1		24		350		26		26		365		24		1.00E+02	1.05E-02		
CS6	o-Xylene	0.65		24		350		26		26		365		24		1.00E+02	6.23E-03		
CS6	TCE	0.6		24		350		26		26		365		24		2.00E+00	3.07E-01		
																		3.0E+00	
CS6-DUP	TPH-G	1,100		24		350		26		26		365		24		5.70E+02	1.85E+00		Residential Exposure
CS6-DUP	Benzene	3.1		24		350		26		26		365		24		3.00E+00	9.91E-01		
CS6-DUP	Toluene	2.9		24		350		26		26		365		24		3.00E+02	9.27E-03		
CS6-DUP	Ethylbenzene	0.39		24		350		26		26		365		24		1.00E+03	3.74E-04		
CS6-DUP	m,p-Xylene	1.1		24		350		26		26		365		24		1.00E+02	1.05E-02		
CS6-DUP	o-Xylene	0.63		24		350		26		26		365		24		1.00E+02	6.04E-03		
CS6-DUP	TCE	0.6		24		350		26		26		365		24		2.00E+00	3.07E-01		
																		3.2E+00	
AMBIENT	Benzene	0.31		24		350		26		26		365		24		3.00E+00	9.91E-02		Residential Exposure
AMBIENT	Toluene	0.66		24		350		26		26		365		24		3.00E+02	2.11E-03		
																		1.0E-01	

Table 2B
Crawl Space and Ambient Air Hazard Calculation Results

Equation		Concentration in Air	X	Exposure Time	X	Exposure Frequency	X	Exposure Duration	all divided by	Averaging Time for Non-cancer Toxic Effects	X	365	X	24	X	Reference Concentration (Rfc)	Calculated Individual Compound Hazard Quotient	Hazard Index	Comments
Units		(ug/m3)		(hrs/day)		(days/yr)		(yrs)		(yrs)		(days/yr)		(hr/day)		(ug/m3)			
Location	Compound																		
Samples Collected February 19, 2010																			
CS1	TPH-SS	310		24		350		26		26		365		24		1.30E+02	2.29E+00		Residential Exposure
CS1	Benzene	4.7		24		350		26		26		365		24		3.00E+00	1.50E+00		
CS1	Toluene	48		24		350		26		26		365		24		3.00E+02	1.53E-01		
CS1	Ethylbenzene	9.4		24		350		26		26		365		24		1.00E+03	9.01E-03		
CS1	m,p-Xylene	36		24		350		26		26		365		24		1.00E+02	3.45E-01		
CS1	o-Xylene	11		24		350		26		26		365		24		1.00E+02	1.05E-01		
CS1	PCE	0.38		24		350		26		26		365		24		3.50E+01	1.04E-02		
CS1	TCE	0.44		24		350		26		26		365		24		2.00E+00	2.11E-01	4.6E+00	
CS2	TPH-SS	300		24		350		26		26		365		24		1.30E+02	2.21E+00		Residential Exposure
CS2	Benzene	5.3		24		350		26		26		365		24		3.00E+00	1.69E+00		
CS2	Toluene	50		24		350		26		26		365		24		3.00E+02	1.60E-01		
CS2	Ethylbenzene	9.3		24		350		26		26		365		24		1.00E+03	8.92E-03		
CS2	m,p-Xylene	35		24		350		26		26		365		24		1.00E+02	3.36E-01		
CS2	o-Xylene	10		24		350		26		26		365		24		1.00E+02	9.59E-02		
CS2	PCE	1.2		24		350		26		26		365		24		3.50E+01	3.29E-02		
CS2	TCE	3.2		24		350		26		26		365		24		2.00E+00	1.53E+00	6.1E+00	
CS3	Benzene	0.65		24		350		26		26		365		24		3.00E+00	2.08E-01		Residential Exposure
CS3	Toluene	3.7		24		350		26		26		365		24		3.00E+02	1.18E-02		
CS3	Ethylbenzene	0.77		24		350		26		26		365		24		1.00E+03	7.38E-04		
CS3	m,p-Xylene	3.6		24		350		26		26		365		24		1.00E+02	3.45E-02		
CS3	o-Xylene	1.0		24		350		26		26		365		24		1.00E+02	9.59E-03		
CS3	PCE	0.23		24		350		26		26		365		24		3.50E+01	6.30E-03	2.7E-01	
CS3-DUP	Benzene	0.64		24		350		26		26		365		24		3.00E+00	2.05E-01		Residential Exposure
CS3-DUP	Toluene	3.9		24		350		26		26		365		24		3.00E+02	1.25E-02		
CS3-DUP	Ethylbenzene	0.79		24		350		26		26		365		24		1.00E+03	7.58E-04		
CS3-DUP	m,p-Xylene	3.7		24		350		26		26		365		24		1.00E+02	3.55E-02		
CS3-DUP	o-Xylene	1.0		24		350		26		26		365		24		1.00E+02	9.59E-03	2.6E-01	
AMBIENT	Benzene	0.56		24		350		26		26		365		24		3.00E+00	1.79E-01		Residential Exposure
AMBIENT	Toluene	1.3		24		350		26		26		365		24		3.00E+02	4.16E-03		
AMBIENT	Ethylbenzene	0.29		24		350		26		26		365		24		1.00E+03	2.78E-04		
AMBIENT	m,p-Xylene	0.98		24		350		26		26		365		24		1.00E+02	9.40E-03		
AMBIENT	o-Xylene	0.34		24		350		26		26		365		24		1.00E+02	3.26E-03	2.0E-01	
Notes:																			
TPH-SS = Total Petroleum Hydrocarbons as Gasoline																			
PCE = Tetrachloroethene																			
TCE = Trichloroethene																			

Table 2C
Crawl Space and Ambient Air Risk and Hazard Calculation Results Summary

	Calculated Cumulative Incremental Carcinogenic Risk	Calculated Cumulative Incremental Carcinogenic Risk Alternate Description	Calculated Cumulative Incremental Carcinogenic Risk Alternate Description	Calculated Hazard Index	Recommendations Based on DTSC-Recommended Guidance for Action or Response
Location					
Samples Collected April 26, 2016					
CS1	1.24E-05	0.0000124	12.4 in a million	26	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
CS2	1.40E-05	0.0000140	14.0 in a million	14	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
CS3	1.33E-05	0.0000133	13.3 in a million	43	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
CS3-DUP	1.36E-05	0.0000136	13.6 in a million	37	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
AMBIENT	4.95E-06	0.00000495	5.0 in a million	0.16	Not Applicable - Ambient Air
Samples Collected August 9, 2010					
CS4	2.08E-05	0.0000208	20.8 in a million	2.2	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
CS5	2.01E-05	0.0000201	20.1 in a million	2.3	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
CS6	3.33E-05	0.0000333	33.3 in a million	3.0	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
CS6-DUP	3.33E-05	0.0000333	33.3 in a million	3.2	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
AMBIENT	3.20E-06	0.00000320	3.2 in a million	0.10	Not Applicable - Ambient Air
Samples Collected February 19, 2010					
CS1	5.84E-05	0.0000584	58.4 in a million	4.6	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
CS2	7.02E-05	0.0000702	70.2 in a million	6.1	Evaluate need for action - risk greater than 1 in a million, and hazard greater than 1.0.
CS3	7.88E-06	0.00000788	7.9 in a million	0.27	Evaluate need for action - risk greater than 1 in a million.
CS3-DUP	7.31E-06	0.00000731	7.3 in a million	0.26	Evaluate need for action - risk greater than 1 in a million.
AMBIENT	6.04E-06	0.00000604	6.0 in a million	0.20	Not Applicable - Ambient Air
Notes:					
RISK MANAGEMENT MATRIX FOR VAPOR INTRUSION					
Risk	Response	Activities			
Less than 1 in a million	No Further Action	None			
1 to 100 in a million	Evaluate Need for Action	Possible Actions o Additional Data Collection o Monitoring o Additional Risk Characterization o Mitigation o Source Remediation			
More than 100 in a million	Response Action Needed	o Vapor Intrusion Mitigation o Source Remediation			

FIGURES

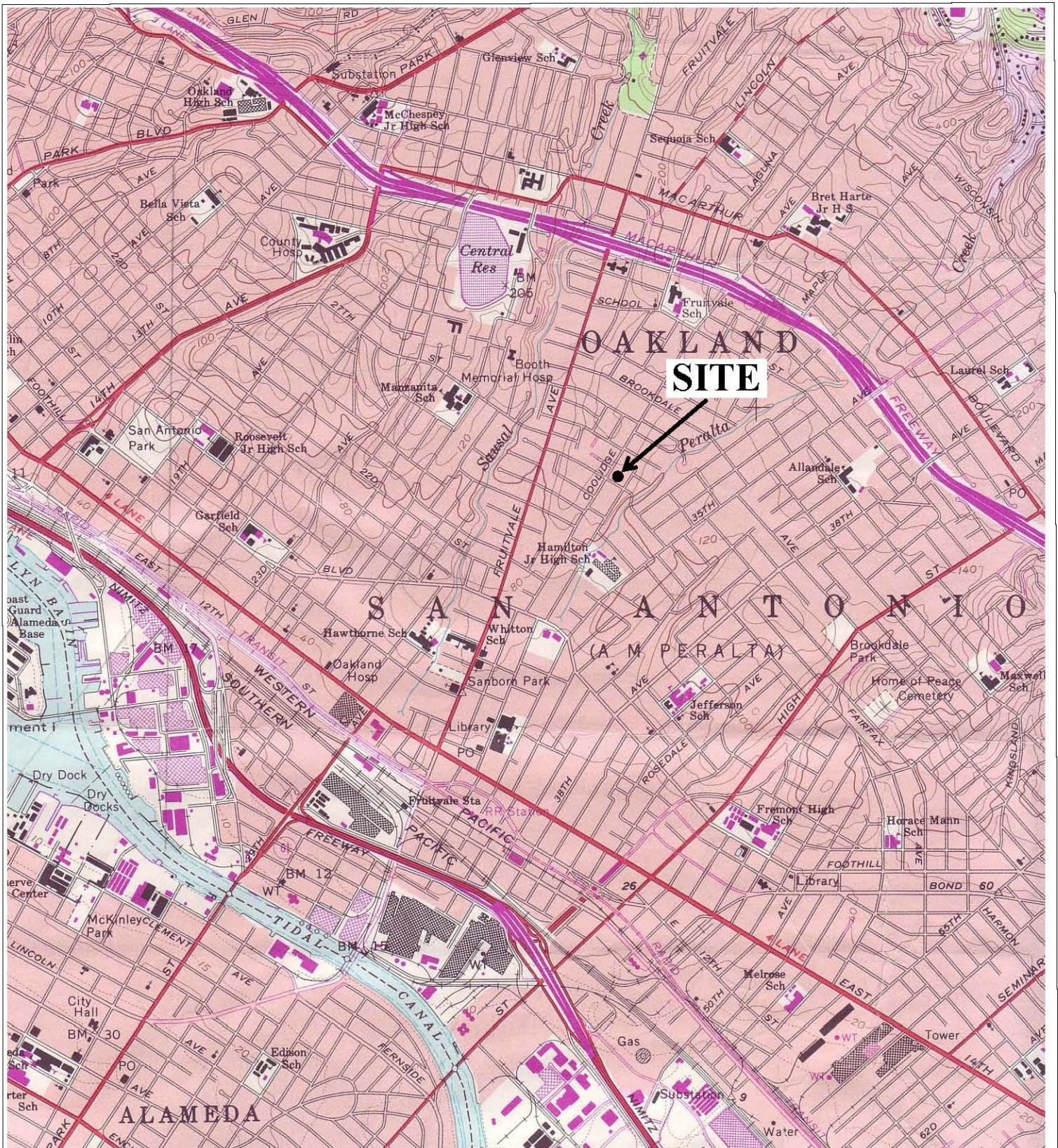


Figure 1
 Site Location Map
 Snow Cleaners
 2678 Coolidge Avenue
 Oakland, California

Base Map From:
 U.S. Geological Survey
 Oakland East, California
 7.5-Minute Quadrangle
 Photorevised 1980

P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610

0 1,000 2,000
 Approximate Scale In Feet



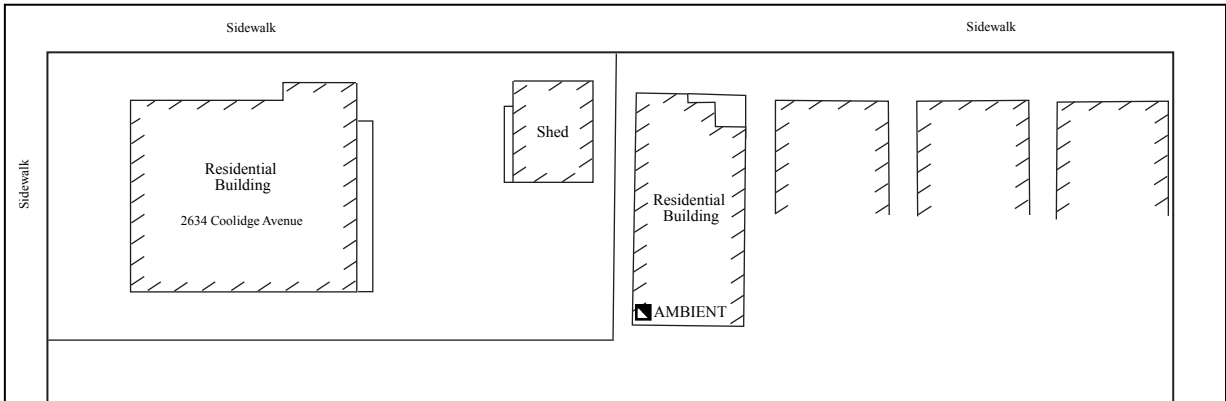
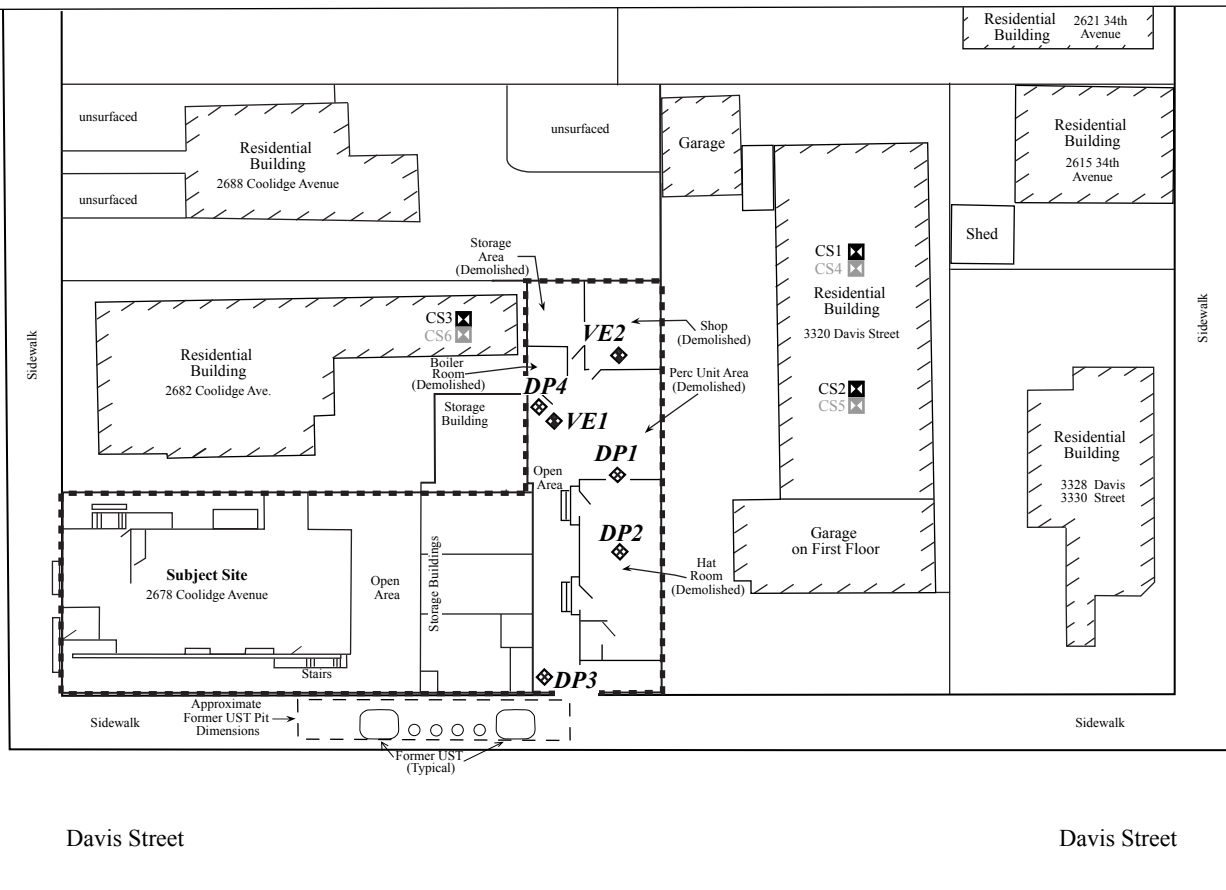
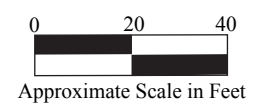


Figure 2
 Site Vicinity Map Detail Showing Sample Collection Locations
 Snow Cleaners
 2678 Coolidge Avenue
 Oakland, California

- LEGEND**
- CS3 Crawl Space Air Sample Collection Location
 - AMBIENT Ambient Air Sample Collection Location
 - CS6 Historical Crawl Space Air Sample Collection Location
 - DP4 Dual-Phase Extraction Well
 - VE2 Vapor Extraction Well
 - Property Line

Base Map from:
 Kier & Wright Engineers Surveyors, Inc.
 September 2008 survey

P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610



APPENDIX A

Crawl Space Air Sampling Data Sheet

CR & WL SPACE AIR SAMPLING DATA SHEET

Address 2678 COOLIDGE AVE., OAKLAND
 Job # 0298
 Date 4/26/16
 Sampler Name MLBD

Soil Gas Location Designation	Flow Controller #	Canister #	Sample Canister Initial Vacuum Check (In. Hg) and time	Begin sample collection vacuum (In. Hg) and time	End sample collection vacuum (In. Hg) and time	NOTES
CS 1	933	34237	vac -30 time 0801	vac -30 time 085740	vac -5 time 171702	PURGE VOLUME 20L/MIN FOR 1 MINUTE
CS 2	13854	25244	vac -30 time 0805	vac -30 time 085912	vac -4.5 time 171751	
CS 3	25267	14124	vac -30 time 0820	vac -30 time 091500	vac -6 time 172000	
CS 3 DUP	34500	33962	vac -30 time 0823	vac -30 time 091500	vac -5 time 172000	
CS			vac time	vac time	vac time	
CS			vac time	vac time	vac time	
CS			vac time	vac time	vac time	
CS			vac time	vac time	vac time	
CS			vac time	vac time	vac time	
CS			vac time	vac time	vac time	
CS			vac time	vac time	vac time	
CS			vac time	vac time	vac time	
AMBIENT	4378	11892	vac -30 time 0803	vac -30 time 081445	vac -2 time 180650	

APPENDIX B

Weather Information

<https://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA51#history/s20160412/e20160508/mcustom>

About This Weather Station

Weather Station ID: KCAOAKLA51
Station Name: Highland Terrace
Latitude / Longitude: N 37 ° 47 ' 31 " , W 122 ° 13 ' 44 "
Elevation: 150
City: Oakland
State: CA
Hardware: Davis Vantage Vue (Wireless)
Software: Cumulus v1.9.4

Weather History Table
April 12, 2016 - May 8, 2016

2016	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
Apr	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
12	61.9 °F	55.6 °F	51.7 °F	52.5 °F	49.6 °F	47.6 °F	93 %	81 %	66 %	11 mph	3 mph	15 mph	30.26 in	30.22 in	30.17 in	0 in
13	63 °F	56 °F	49 °F	51.5 °F	47.4 °F	42.4 °F	89 %	74 %	50 %	12 mph	2 mph	16 mph	30.25 in	30.17 in	30.1 in	0 in
14	63 °F	55.7 °F	47.9 °F	52.1 °F	46.7 °F	41 °F	95 %	73 %	51 %	9 mph	3 mph	20 mph	30.19 in	30.14 in	30.08 in	0.17 in
15	71.2 °F	58.8 °F	48 °F	46.1 °F	42.3 °F	38.5 °F	77 %	57 %	33 %	11 mph	3 mph	16 mph	30.18 in	30.14 in	30.09 in	0 in
16	81.6 °F	65.7 °F	52.5 °F	51.2 °F	44.2 °F	35.4 °F	82 %	51 %	20 %	7 mph	1 mph	15 mph	30.13 in	30.09 in	30.05 in	0 in
17	83.6 °F	67.9 °F	54.4 °F	53.2 °F	46.9 °F	40.6 °F	77 %	49 %	31 %	8 mph	2 mph	10 mph	30.07 in	30.03 in	30 in	0 in
18	83.9 °F	68.1 °F	55.1 °F	54.2 °F	45.7 °F	39.1 °F	66 %	46 %	33 %	9 mph	2 mph	10 mph	30.08 in	30.05 in	30.02 in	0 in
19	80.1 °F	66.6 °F	56.6 °F	51.1 °F	41.9 °F	31.3 °F	61 %	43 %	18 %	5 mph	1 mph	11 mph	30.05 in	29.98 in	29.91 in	0 in
20	72.6 °F	62.7 °F	52.8 °F	56.7 °F	46.1 °F	35.6 °F	87 %	57 %	29 %	9 mph	2 mph	14 mph	29.99 in	29.96 in	29.93 in	0 in
21	68.7 °F	61.7 °F	57.2 °F	57.6 °F	55.1 °F	52.7 °F	91 %	80 %	61 %	15 mph	3 mph	18 mph	29.96 in	29.92 in	29.89 in	0 in
22	60.7 °F	58.2 °F	52.9 °F	55.5 °F	50.8 °F	44.3 °F	93 %	77 %	59 %	17 mph	6 mph	24 mph	30.13 in	29.98 in	29.83 in	0.12 in
23	65.1 °F	57.1 °F	48.5 °F	52 °F	48.7 °F	46 °F	92 %	74 %	57 %	12 mph	2 mph	16 mph	30.23 in	30.18 in	30.13 in	0 in
24	68.4 °F	58.2 °F	51.4 °F	50.3 °F	47 °F	39.1 °F	89 %	68 %	49 %	11 mph	3 mph	21 mph	30.15 in	30.06 in	29.98 in	0 in
25	65.7 °F	56.1 °F	47.6 °F	45.1 °F	38.4 °F	33.2 °F	78 %	53 %	32 %	13 mph	4 mph	18 mph	30.07 in	30.04 in	30.01 in	0 in
26	64.3 °F	55.6 °F	48.5 °F	48.8 °F	45.3 °F	41.6 °F	89 %	69 %	47 %	11 mph	2 mph	16 mph	30.1 in	30.08 in	30.05 in	0 in
27	64.6 °F	55.1 °F	48.6 °F	53.6 °F	47.2 °F	41.4 °F	94 %	76 %	55 %	18 mph	3 mph	18 mph	30.07 in	29.97 in	29.87 in	0.09 in
28	68.2 °F	58.2 °F	48.9 °F	52 °F	48.1 °F	44.1 °F	87 %	70 %	51 %	12 mph	3 mph	14 mph	30.01 in	29.95 in	29.89 in	0 in
29	67.9 °F	57.7 °F	51 °F	51.9 °F	48.9 °F	46.5 °F	89 %	74 %	54 %	16 mph	4 mph	17 mph	30.08 in	30.01 in	29.93 in	0 in
30	80.3 °F	66.7 °F	53.5 °F	49.5 °F	43.3 °F	38 °F	77 %	46 %	24 %	12 mph	3 mph	19 mph	29.97 in	29.9 in	29.83 in	0 in
2016	Temperature			Dew Point			Humidity			Speed			Pressure			Precip. Accum.
May	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	81.3 °F	66 °F	53.5 °F	53.6 °F	48.4 °F	40.9 °F	92 %	55 %	29 %	11 mph	3 mph	18 mph	29.98 in	29.9 in	29.82 in	0 in
2	66.3 °F	57.9 °F	52.7 °F	54.2 °F	51.7 °F	49.9 °F	92 %	81 %	64 %	9 mph	3 mph	12 mph	30.09 in	30.03 in	29.98 in	0 in
3	70.2 °F	59 °F	53 °F	55.4 °F	52.1 °F	49.8 °F	91 %	79 %	55 %	8 mph	2 mph	11 mph	30.07 in	30 in	29.93 in	0 in
4	66.4 °F	58.6 °F	54.1 °F	53.3 °F	51.7 °F	50.4 °F	90 %	78 %	59 %	13 mph	2 mph	14 mph	29.96 in	29.92 in	29.87 in	0 in
5	64.9 °F	59.9 °F	55.6 °F	54.2 °F	52.4 °F	51 °F	88 %	77 %	64 %	8 mph	3 mph	13 mph	29.92 in	29.9 in	29.87 in	0 in
6	57.8 °F	55.6 °F	54 °F	52.8 °F	51.9 °F	50.8 °F	93 %	87 %	81 %	6 mph	2 mph	10 mph	29.93 in	29.9 in	29.86 in	0.09 in
7	60.7 °F	56.8 °F	54.3 °F	55.3 °F	53 °F	51.4 °F	93 %	87 %	80 %	7 mph	1 mph	10 mph	30.01 in	29.96 in	29.91 in	0.15 in
8	67.1 °F	58.8 °F	54.6 °F	55.8 °F	53.4 °F	51 °F	95 %	83 %	66 %	9 mph	2 mph	14 mph	30.02 in	29.99 in	29.97 in	0.03 in
5	64.9 °F	59.9 °F	55.6 °F	54.2 °F	52.4 °F	51 °F	88 %	77 %	64 %	8 mph	3 mph	13 mph	29.92 in	29.9 in	29.87 in	0 in
6	57.8 °F	55.6 °F	54 °F	52.8 °F	51.9 °F	50.8 °F	93 %	87 %	81 %	6 mph	2 mph	10 mph	29.93 in	29.9 in	29.86 in	0.09 in
7	60.7 °F	56.8 °F	54.3 °F	55.3 °F	53 °F	51.4 °F	93 %	87 %	80 %	7 mph	1 mph	10 mph	30.01 in	29.96 in	29.91 in	0.15 in
8	67.1 °F	58.8 °F	54.6 °F	55.8 °F	53.4 °F	51 °F	95 %	83 %	66 %	9 mph	2 mph	14 mph	30.02 in	29.99 in	29.97 in	0.03 in

APPENDIX C

Laboratory Analytical Reports and Chain of Custody Documentation

- **Air Toxics Workorder # 1604616A - CS1 Through CS3, CS3-DUP, and AMBIENT TO-15 Results**
- **Air Toxics Workorder # 1604616B - CS1 Through CS3, CS3-DUP, and AMBIENT TO-3 Results**

5/3/2016

Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: SNOW CLEANERS 2678 COOLIDGE AVE OAKLAND

Project #: 0298

Workorder #: 1604616A

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 4/28/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori
Project Manager

WORK ORDER #: 1604616A

Work Order Summary

CLIENT: Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland, CA 94610

BILL TO: Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland, CA 94610

PHONE: 510-658-6916

P.O. #

FAX: 510-834-0772

PROJECT # 0298 SNOW CLEANERS 2678

DATE RECEIVED: 04/28/2016

CONTACT: COOLIDGE AVE OAKLAND
Kyle Vagadori

DATE COMPLETED: 05/03/2016

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	CS1	Modified TO-15	4.3 "Hg	5 psi
01B	CS1	Modified TO-15	4.3 "Hg	5 psi
02A	CS2	Modified TO-15	3.7 "Hg	4.9 psi
02B	CS2	Modified TO-15	3.7 "Hg	4.9 psi
03A	CS3	Modified TO-15	5.1 "Hg	5 psi
03B	CS3	Modified TO-15	5.1 "Hg	5 psi
04A	CS3-DUP	Modified TO-15	5.3 "Hg	4.9 psi
04B	CS3-DUP	Modified TO-15	5.3 "Hg	4.9 psi
05A	AMBIENT	Modified TO-15	2.2 "Hg	5.1 psi
05B	AMBIENT	Modified TO-15	2.2 "Hg	5.1 psi
06A	Lab Blank	Modified TO-15	NA	NA
06B	Lab Blank	Modified TO-15	NA	NA
07A	CCV	Modified TO-15	NA	NA
07B	CCV	Modified TO-15	NA	NA
08A	LCS	Modified TO-15	NA	NA
08AA	LCS	Modified TO-15	NA	NA
08B	LCS	Modified TO-15	NA	NA
08BB	LCS	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 05/03/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
P & D Environmental
Workorder# 1604616A**

Five 6 Liter Summa Canister (SIM Certified) samples were received on April 28, 2016. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	For Full Scan: 30% RSD with 4 compounds allowed out to $< 40\%$ RSD For SIM: Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	For Full Scan: $\leq 30\%$ Difference with four allowed out up to $\leq 40\%$.; flag and narrate outliers For SIM: Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for Naphthalene, Benzene and Vinyl Chloride that are below the Reporting Limit but greater than the Method Detection Limit. Results are reported as qualified with high probability for false positive.

The results for each sample in this report were acquired from two separate data files originating from

the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: CS1

Lab ID#: 1604616A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.78	0.092 J	4.1	0.48 J

Client Sample ID: CS1

Lab ID#: 1604616A-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.031	0.038	0.21	0.26
Benzene	0.078	0.16	0.25	0.51
Toluene	0.031	0.63	0.12	2.4
Ethyl Benzene	0.031	0.19	0.14	0.82
m,p-Xylene	0.062	0.40	0.27	1.7
o-Xylene	0.031	0.18	0.14	0.78

Client Sample ID: CS2

Lab ID#: 1604616A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.76	0.078 J	4.0	0.41 J

Client Sample ID: CS2

Lab ID#: 1604616A-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.030	0.14	0.21	0.99
Trichloroethene	0.030	0.071	0.16	0.38
Benzene	0.076	0.17	0.24	0.55
Toluene	0.030	0.79	0.11	3.0
Ethyl Benzene	0.030	0.18	0.13	0.78
m,p-Xylene	0.061	0.38	0.26	1.7
o-Xylene	0.030	0.18	0.13	0.79

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

Client Sample ID: CS3

Lab ID#: 1604616A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.80	0.14 J	4.2	0.71 J

Client Sample ID: CS3

Lab ID#: 1604616A-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.080	0.13	0.26	0.41
Toluene	0.032	0.43	0.12	1.6
Ethyl Benzene	0.032	0.13	0.14	0.58
m,p-Xylene	0.064	0.31	0.28	1.4
o-Xylene	0.032	0.14	0.14	0.61

Client Sample ID: CS3-DUP

Lab ID#: 1604616A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.81	0.14 J	4.2	0.72 J

Client Sample ID: CS3-DUP

Lab ID#: 1604616A-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.081	0.13	0.26	0.42
Toluene	0.032	0.40	0.12	1.5
Ethyl Benzene	0.032	0.14	0.14	0.59
m,p-Xylene	0.065	0.32	0.28	1.4
o-Xylene	0.032	0.14	0.14	0.62

Client Sample ID: AMBIENT

Lab ID#: 1604616A-05A

No Detections Were Found.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AMBIENT

Lab ID#: 1604616A-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.073	0.14	0.23	0.46
Toluene	0.029	0.28	0.11	1.1
Ethyl Benzene	0.029	0.050	0.13	0.22
m,p-Xylene	0.058	0.17	0.25	0.74
o-Xylene	0.029	0.076	0.13	0.33



Air Toxics

Client Sample ID: CS1

Lab ID#: 1604616A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050214	Date of Collection:	4/26/16 5:17:00 PM	
Dil. Factor:	1.56	Date of Analysis:	5/2/16 06:48 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.78	0.092 J	4.1	0.48 J

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: CS1

Lab ID#: 1604616A-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050214sim	Date of Collection: 4/26/16 5:17:00 PM
Dil. Factor:	1.56	Date of Analysis: 5/2/16 06:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Tetrachloroethene	0.031	0.038	0.21	0.26
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Benzene	0.078	0.16	0.25	0.51
Toluene	0.031	0.63	0.12	2.4
Ethyl Benzene	0.031	0.19	0.14	0.82
m,p-Xylene	0.062	0.40	0.27	1.7
o-Xylene	0.031	0.18	0.14	0.78

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	109	70-130



Air Toxics

Client Sample ID: CS2

Lab ID#: 1604616A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050215	Date of Collection:	4/26/16 5:17:00 PM	
Dil. Factor:	1.52	Date of Analysis:	5/2/16 07:24 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.76	0.078 J	4.0	0.41 J

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: CS2

Lab ID#: 1604616A-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050215sim	Date of Collection:	4/26/16 5:17:00 PM
Dil. Factor:	1.52	Date of Analysis:	5/2/16 07:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.030	Not Detected	0.12	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
Tetrachloroethene	0.030	0.14	0.21	0.99
Trichloroethene	0.030	0.071	0.16	0.38
Vinyl Chloride	0.015	Not Detected	0.039	Not Detected
Benzene	0.076	0.17	0.24	0.55
Toluene	0.030	0.79	0.11	3.0
Ethyl Benzene	0.030	0.18	0.13	0.78
m,p-Xylene	0.061	0.38	0.26	1.7
o-Xylene	0.030	0.18	0.13	0.79

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: CS3

Lab ID#: 1604616A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050216	Date of Collection:	4/26/16 5:20:00 PM	
Dil. Factor:	1.61	Date of Analysis:	5/2/16 08:00 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.80	0.14 J	4.2	0.71 J

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	109	70-130

Client Sample ID: CS3

Lab ID#: 1604616A-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050216sim	Date of Collection: 4/26/16 5:20:00 PM
Dil. Factor:	1.61	Date of Analysis: 5/2/16 08:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Benzene	0.080	0.13	0.26	0.41
Toluene	0.032	0.43	0.12	1.6
Ethyl Benzene	0.032	0.13	0.14	0.58
m,p-Xylene	0.064	0.31	0.28	1.4
o-Xylene	0.032	0.14	0.14	0.61

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: CS3-DUP

Lab ID#: 1604616A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050217	Date of Collection:	4/26/16 5:20:00 PM	
Dil. Factor:	1.62	Date of Analysis:	5/2/16 09:25 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.81	0.14 J	4.2	0.72 J

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: CS3-DUP

Lab ID#: 1604616A-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050217sim	Date of Collection:	4/26/16 5:20:00 PM
Dil. Factor:	1.62	Date of Analysis:	5/2/16 09:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Benzene	0.081	0.13	0.26	0.42
Toluene	0.032	0.40	0.12	1.5
Ethyl Benzene	0.032	0.14	0.14	0.59
m,p-Xylene	0.065	0.32	0.28	1.4
o-Xylene	0.032	0.14	0.14	0.62

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: AMBIENT

Lab ID#: 1604616A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050218	Date of Collection:	4/26/16 6:06:00 PM	
Dil. Factor:	1.46	Date of Analysis:	5/2/16 10:00 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.73	Not Detected	3.8	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: AMBIENT

Lab ID#: 1604616A-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050218sim	Date of Collection:	4/26/16 6:06:00 PM
Dil. Factor:	1.46	Date of Analysis:	5/2/16 10:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.029	Not Detected	0.12	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Tetrachloroethene	0.029	Not Detected	0.20	Not Detected
Trichloroethene	0.029	Not Detected	0.16	Not Detected
Vinyl Chloride	0.015	Not Detected	0.037	Not Detected
Benzene	0.073	0.14	0.23	0.46
Toluene	0.029	0.28	0.11	1.1
Ethyl Benzene	0.029	0.050	0.13	0.22
m,p-Xylene	0.058	0.17	0.25	0.74
o-Xylene	0.029	0.076	0.13	0.33

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1604616A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050208a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/2/16 11:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.50	Not Detected	2.6	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: Lab Blank

Lab ID#: 1604616A-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050208sima	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/2/16 11:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Benzene	0.050	0.0028 J	0.16	0.0090 J
Toluene	0.020	Not Detected	0.075	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1604616A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/2/16 07:21 AM

Compound	%Recovery
Naphthalene	75

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: CCV

Lab ID#: 1604616A-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/2/16 07:21 AM

Compound	%Recovery
cis-1,2-Dichloroethene	108
trans-1,2-Dichloroethene	107
Tetrachloroethene	105
Trichloroethene	106
Vinyl Chloride	113
Benzene	108
Toluene	111
Ethyl Benzene	110
m,p-Xylene	110
o-Xylene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1604616A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/2/16 09:25 AM

Compound	%Recovery	Method Limits
Naphthalene	63	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1604616A-08AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050206	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/2/16 10:07 AM

Compound	%Recovery	Method Limits
Naphthalene	60	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: LCS

Lab ID#: 1604616A-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050205sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/2/16 09:25 AM

Compound	%Recovery	Method Limits
cis-1,2-Dichloroethene	91	70-130
trans-1,2-Dichloroethene	94	70-130
Tetrachloroethene	90	70-130
Trichloroethene	90	70-130
Vinyl Chloride	100	70-130
Benzene	92	70-130
Toluene	94	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	90	70-130
o-Xylene	95	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: LCSD

Lab ID#: 1604616A-08BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v050206sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/2/16 10:07 AM

Compound	%Recovery	Method Limits
cis-1,2-Dichloroethene	90	70-130
trans-1,2-Dichloroethene	94	70-130
Tetrachloroethene	89	70-130
Trichloroethene	90	70-130
Vinyl Chloride	99	70-130
Benzene	92	70-130
Toluene	94	70-130
Ethyl Benzene	92	70-130
m,p-Xylene	88	70-130
o-Xylene	92	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130

CHAIN OF CUSTODY RECORD

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER:

0298

PROJECT NAME:

SNOW CLEANERS
2678 COOLIDGE AVE
OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE)

Michael Bass-Deschenes *Michael Bass-Deschenes*

NUMBER OF CONTAINERS

ANALYSIS(ES):
PCE, TCE, DCE, VINYL CHLORIDE AND
PTEX AND NAPHTHALENE BY TO-15
TPH - 5-DIBENZO-SOLVENT BY TO-3

PRESERVATIVE

REMARKS

O1A
O2A
O3A
O4A
O5A

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION		NUMBER OF CONTAINERS	ANALYSIS(ES)			PRESERVATIVE	REMARKS
				SUMMA #	INITIAL		FINAL	PCE, TCE, DCE	VINYL CHLORIDE AND PTEX AND NAPHTHALENE BY TO-15		
CS1	4/26/16	085746 171703	APP	34237	-30	-5	1	X	X		NONE 1 WEEK TAT
CS2		085746 171703		25244	-30	-4.5	1	X	X		
CS3		091500 172000		14124	-30	-6	1	X	X		
CS3-DUP		091500 172000		33962	-30	-5	1	X	X		
AMBIENT		081445 180636		11892	-30	-2	1	X	X		

Custody Seal Intact?
Y N None Temp 11.2
EATL

RELINQUISHED BY: (SIGNATURE) <i>Michael Bass-Deschenes</i>	DATE 4-28-16	TIME 12:28	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	Total No. of Samples (This Shipment) 5	LABORATORY: EUREFINS/AIR TOXICS, LTD
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	Total No. of Containers (This Shipment) 5	LABORATORY PHONE NUMBER: KYLE VAGADORI (916) 605-3339
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:
1 - LITER SUMMA; 8 HR FLOW CONTROLLER.

5/5/2016
Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: SNOW CLEANERS 2678 COOLIDGE AVE OAKLAND
Project #: 0298
Workorder #: 1604616B

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 4/28/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori
Project Manager

WORK ORDER #: 1604616B

Work Order Summary

CLIENT:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610	BILL TO:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610
PHONE:	510-658-6916	P.O. #	
FAX:	510-834-0772	PROJECT #	0298 SNOW CLEANERS 2678
DATE RECEIVED:	04/28/2016	CONTACT:	COOLIDGE AVE OAKLAND Kyle Vagadori
DATE COMPLETED:	05/05/2016		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	CS1	Modified TO-3	4.3 "Hg	5 psi
02A	CS2	Modified TO-3	3.7 "Hg	4.9 psi
03A	CS3	Modified TO-3	5.1 "Hg	5 psi
04A	CS3-DUP	Modified TO-3	5.3 "Hg	4.9 psi
05A	AMBIENT	Modified TO-3	2.2 "Hg	5.1 psi
06A	Lab Blank	Modified TO-3	NA	NA
07A	LCS	Modified TO-3	NA	NA
07AA	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 05/05/16

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
P & D Environmental
Workorder# 1604616B

Five 6 Liter Summa Canister (SIM Certified) samples were received on April 28, 2016. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-3</i>	<i>ATL Modifications</i>
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch <= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation $DL = A + 3.3S$, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID**

Client Sample ID: CS1

Lab ID#: 1604616B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.039	0.23	0.60	3.5

Client Sample ID: CS2

Lab ID#: 1604616B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.038	0.22	0.31	1.8

Client Sample ID: CS3

Lab ID#: 1604616B-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.040	0.23	0.99	5.8

Client Sample ID: CS3-DUP

Lab ID#: 1604616B-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.040	0.24	0.87	5.0

Client Sample ID: AMBIENT

Lab ID#: 1604616B-05A

No Detections Were Found.



Air Toxics

Client Sample ID: CS1

Lab ID#: 1604616B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050404	Date of Collection:	4/26/16 5:17:00 PM	
Dil. Factor:	1.56	Date of Analysis:	5/4/16 01:17 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.039	0.23	0.60	3.5

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	99	75-150



Air Toxics

Client Sample ID: CS2

Lab ID#: 1604616B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050405	Date of Collection:	4/26/16 5:17:00 PM	
Dil. Factor:	1.52	Date of Analysis:	5/4/16 01:56 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.038	0.22	0.31	1.8

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	99	75-150



Air Toxics

Client Sample ID: CS3

Lab ID#: 1604616B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050406	Date of Collection:	4/26/16 5:20:00 PM	
Dil. Factor:	1.61	Date of Analysis:	5/4/16 02:28 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.040	0.23	0.99	5.8

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	100	75-150



Air Toxics

Client Sample ID: CS3-DUP

Lab ID#: 1604616B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050407	Date of Collection:	4/26/16 5:20:00 PM	
Dil. Factor:	1.62	Date of Analysis:	5/4/16 03:09 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.040	0.24	0.87	5.0

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	102	75-150



Air Toxics

Client Sample ID: AMBIENT

Lab ID#: 1604616B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050408	Date of Collection:	4/26/16 6:06:00 PM	
Dil. Factor:	1.46	Date of Analysis:	5/4/16 03:46 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.036	0.21	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	101	75-150



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1604616B-06A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050403	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/4/16 12:01 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Stoddard Solvent	0.025	0.14	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	97	75-150

Client Sample ID: LCS

Lab ID#: 1604616B-07A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/4/16 11:18 AM

Compound	%Recovery	Method Limits
Stoddard Solvent	103	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	87	75-150



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1604616B-07AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d050415	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/4/16 08:10 PM

Compound	%Recovery	Method Limits
Stoddard Solvent	112	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	88	75-150

CHAIN OF CUSTODY RECORD

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER:

0298

PROJECT NAME:

SNOW CLEANERS
2678 COOLIDGE AVE
OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE)

Michael Bass-Deschenes *Michael Bass-Deschenes*

SAMPLE NUMBER

DATE

TIME

TYPE

SAMPLE LOCATION

Summa # INITIAL FINAL

NUMBER OF CONTAINERS

ANALYSIS(ES):

PCE, TCE, DCE, VINYL CHLORIDE AND
PTX AND NAPHTHALENE BY TO-15
TPH - 5-DIBENZO-SOLVENT BY TO-3

PRESERVATIVE

REMARKS

O1A
O2A
O3A
O4A
O5A

CS1

4/26/16

085746
171703

APP

34237 -30 -5

1

X

X

NONE

1 WEEK TAT

CS2

|

085746
171703

|

25244 -30 -4.5

1

X

X

CS3

|

091500
172000

|

14124 -30 -6

1

X

X

CS3-DUP

|

091500
172000

|

33962 -30 -5

1

X

X

AMBIENT

↓

081445
180636

↓

11892 -30 -2

1

X

X

↓

↓

↓

Custody Seal Intact?
Y N None Temp 11.2
EATL

RELINQUISHED BY: (SIGNATURE)

Michael Bass-Deschenes

DATE

TIME

4-28-16 12:28

RECEIVED BY: (SIGNATURE)

[Signature]

Total No. of Samples (This Shipment)

5

Total No. of Containers (This Shipment)

5

LABORATORY:

EURFINS/AIR TOXICS, LTD

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE

TIME

RECEIVED BY: (SIGNATURE)

[Signature]

LABORATORY CONTACT:

KYLE VAGADORI

LABORATORY PHONE NUMBER:

(916) 605-3339

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE

TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

[Signature]

SAMPLE ANALYSIS REQUEST SHEET

ATTACHED: () YES (X) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

1 - LITER SUMMA; 8 HR FLOW CONTROLLER.