February 16, 2017

Mr. Grant Yang
Department of Ecology
Northwest Regional Office
3190 160th Ave SE
Bellevue, Washington 98008

Re: Results of 2016 Sampling Activities
Former Classic Cleaners, Everett NW2745
7601-7725 Evergreen Way
Everett, Washington

Dear Mr. Yang:

This letter report presents results of 2016 field investigation and monitoring activities at the Cascade Plaza Shopping Center, former Classic Cleaners (the Site), in Everett, Washington (Figure 1). The Site was re-enrolled in the Washington Department of Ecology (Ecology) Voluntary Cleanup Program (VCP) on June 24, 2013 based on historical soil and groundwater sampling results related to former dry cleaning operations by Classic Cleaners (unit B004, now occupied by Domino's Pizza). The exterior of Unit B004, the adjacent properties, and locations of monitoring points (e.g., groundwater wells, soil borings, etc.) at the Site are shown on Figure 2.

A Site Investigation Report was submitted to Washington Department of Ecology (Ecology) on July 21, 2015 documenting the extent of soil, groundwater, and soil vapor contamination. Ecology provided comments on the SI report in their October 21, 2015 letter. The primary data gaps communicated by Ecology in their comment letter include:

1) Concentrations of soil and groundwater within the general footprint of the former dry cleaning machine exceeded MTCA Method A soil and groundwater cleanup levels in historical samples. Because historical soil concentrations of tetrachloroethene (PCE) exceed cleanup levels in several media, Ecology indicated that a cleanup action must be proposed based on a Feasibility Study for the site.
2) The soil vapor assessment indicates that the source is located beneath the building in the vicinity of the former dry cleaning equipment. Given the results of the vapor intrusion assessment and the dense nature of chlorinated solvents, it appears a source remains beneath the building and soil samples from greater depths are needed to complete characterization of the site.
3) Ecology comments that the groundwater monitoring network does not provide for adequate assessment and that only MW-4 is located downgradient of the source area. Ecology comments that a single sample from HB-4 exceeded the MTCA Method A cleanup level.

Apex prepared a work plan dated February 3, 2016 describing the proposed scope of soil, soil vapor, and groundwater sampling to address data gaps identified by Ecology comments. Ecology approved the work plan in their letter dated April 20, 2016. In their letter, Ecology also requested installation of an additional groundwater monitoring well near the location of the former dry cleaning equipment.

2016 SITE INVESTIGATION ACTIVITIES

The objectives of the of the 2016 soil, soil vapor, and groundwater sampling were to: 1) resolve the data gaps with respect to vertical delineation at the source area; 2) provide an updated weight of evidence vapor intrusion

evaluation; and 3) identify whether a cleanup action is required under WAC 173-340. 2016 site investigation locations are shown on Figure 3.

Push-Probe Soil and Groundwater Sampling. Three attempts were made to collect soil and groundwater samples inside unit B004 near historical boring HB-4 (B-7 through B-9; Figure 4). In order to attain the deepest depths possible, the GeoProbe™ 54LT limited access rig was used for this project. This is the heaviest probe available in the Pacific Northwest that can enter through a standard 36-inch door and operate with 11 feet of overhead clearance. These sample locations required removal of the drop ceiling to obtain the clearance.

Soil samples were collected by coring through the flooring and concrete slab and then completing a push-probe exploration. The goal of the work was to reach 10 feet beneath the water table (20 feet below ground surface [bgs] total). The subsurface conditions again limited the sampling depth. Total depths achieved ranged from 4.0 to 9.5 feet bgs. Groundwater was not encountered and therefore a sample could not be collected. The borings were backfilled with hydrated bentonite and the floor surface was restored.

Groundwater Monitoring. One round of groundwater monitoring was completed from MW-1 through MW-4 (Figure 5) during second quarter 2016 (May 2016). Water levels were measured in each well and samples were collected using a peristaltic pump and low-flow rate sampling method. The samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260B by Accutest Northwest of San Jose, California.

Soil Vapor Point Installation and Vapor Intrusion Monitoring. Soil vapor monitoring points VP-1 and VP-2 were installed on April 27, 2016 by coring through the flooring and concrete slab, and advancing limited-access drilling equipment to a depth of approximately 3 feet bgs at the locations on Figure 6. The sampler consists of a 6-inch screen surrounded by an inert filter pack, and bentonite seal to a flush surface mount.

Simultaneous ambient air and soil vapor samples were collected on May 24, 2016. The vapor sampling program included sampling each soil vapor point, one ambient sample in the tenant space, and one ambient sample of outdoor air, at a presumed background location. Soil vapor samples were analyzed for VOCs by EPA method TO-15, and ambient air samples were analyzed for EPA TO-15 SIM. Laboratory analyses were completed by Eurofins Air Toxics of Folsom, California.

2016 SITE INVESTIGATION RESULTS

Tables 1 through 4 include the results of chemical analyses completed for the site, including historical data and data collected during 2016. The sampling results from 2016 activities are summarized below for each media.

Soil. Soil samples were collected from B-7 (samples collected at 1-foot depth), B-8 (samples collected at 1, 4, and 9 foot depths), B-9 (1-foot depth), VP-1 (1- and 3-foot depths) and VP-2 (1 and 4 foot depths) and analyzed for HVOCs using EPA 8260. These samples included samples with the footprint of the former dry cleaning machine and in close vicinity to HB-1 and HB-2. PCE was detected in these samples at concentrations ranging from 0.0011 to 0.0225 milligrams per kilogram (mg/kg). Each of the detected concentrations was well below the MTCA Method A soil cleanup level for PCE of 0.05 mg/kg.

Deeper depths within the glacial till underlying the site are difficult to attain with push-probe equipment. Boring B-9 was able to penetrate to depths of 9 feet bgs, and samples were analyzed at 4.0 and 9.0 feet bgs. Sample results from B-9 were below the 0.05 mg/kg cleanup level and also showed a declining concentration trend between 4.0 feet (0.0167 mg/kg) and 9.0 feet (0.0024 mg/kg). A soil sample was also analyzed from VP-2. PCE was detected at a concentration of 0.0067 mg/kg, below the MTCA Method A cleanup level.

Soil Vapor and Ambient Air. A Tier II vapor intrusion evaluation was presented in the 2015 Site Investigation Report (Apex, 2015) using the ambient air and soil gas data collected in 2014. The evaluation was performed to identify and evaluate vapor intrusion exposure pathways at the Site, and the degree of human exposure. In the 2015 report, comprehensive screening was completed using the ambient air and soil gas data collected in 2013 and 2014.

A round of air monitoring was completed on May 24, 2016 in order to provide additional data for the Tier II vapor intrusion evaluation. The air monitoring included soil vapor samples from VP-1 and VP-2, an indoor ambient air sample (AA-8), and an outdoor background sample (AA-7). The analytical results are summarized in Table 4. The results are consistent with past events, as summarized below:

- PCE was detected in the vicinity of VP-1 and VP-2 at concentrations that are above Ecology's sub-slab vapor intrusion screening levels (SLs).
- However, PCE was detected in AA-8 (indoor sample from former cleaner) and AA-7 (outdoor background sample) at concentrations that are below Ecology's Method B ambient air cleanup levels.

These data are consistent with the prior findings where concentrations of PCE in soil vapor exceeded SLs, but PCE concentrations in the corresponding ambient air samples were below MTCA Method A cleanup levels. These findings are consistent the source of PCE at Cascade Cleaners is a very small, localized source. Residual PCE is present in soil vapor in a limited area near the source area. Apex has completed three rounds of simultaneous subsurface soil vapor and indoor air samples. In each case, while soil vapor with PCE above the vapor intrusion SLs is present near the location of the former dry cleaning equipment, ambient air at the point of exposure inside the building is below the MTCA Method B cleanup levels.

Groundwater. Groundwater samples were collected from wells MW-1 through MW-4. Water levels measured during the event ranged from 8.1 to 9.9 feet bgs. The measured water levels correspond to a northeasterly hydraulic gradient, which is consistent with the reported hydraulic gradient at the site.

Concentrations of HVOCs were not detected in the samples collected from MW-1 through MW-4 during the May 2016 event. A minimum of 11 monitoring events have been completed from MW-1 through MW-4 and concentrations of HVOCs have never been detected above MTCA Method A groundwater cleanup levels or Ecology's vapor intrusion SLs.

SUMMARY AND CONCLUSIONS

Site investigation and monitoring at the former Cascade Cleaners site has been ongoing since 1997. Beginning in 2013, Apex has completed the data collection and management of the site. This section summarizes the site investigation results, as well as the cleanup and screening level comparisons for each media.

Soil. PCE concentrations in two shallow soil samples collected in 1997, HB-1 and HB-3 (collected from depths of approximately 8 inches) are the only soil samples that exceed the MTCA Method A PCE soil cleanup level of 0.05 mg/kg. These sample depths have historically yielded the highest concentrations and confirm that the PCE release has been limited to surficial depths. Since that time, numerous shallow and deep soil samples have been collected from locations adjacent to HB-1, HB-3, and the former dry cleaning machine. None of the detected sample results exceeded MTCA Method A PCE soil cleanup levels. Figures 7 and 8 show cross-sections with soil sampling results. These cross-sections illustrate that all soil concentrations at depth are well below MTCA method A cleanup levels and decreasing concentration trends are also present. Lateral and vertical soil characterization do not indicate that a PCE source remains in soil at Cascade Cleaners.

Groundwater. Historically, one depth-discrete groundwater sample collected in 2002 near the former dry cleaning machine location exceeded MTCA Method A groundwater cleanup levels by less than a factor of 2 (HB-4 GW,

9.36 micrograms per liter [µg/L]). In addition to the discrete groundwater samples that were collected, site-wide groundwater monitoring was completed from 1999 to 2016 from wells MW-1 through MW-4, with Apex completing the groundwater monitoring since 2013. PCE or other HVOCs have never been detected in site monitoring wells at concentrations above Method A cleanup levels. PCE and other HVOCs were not detected in the samples collected from MW-1 through MW-4 during the May 2016 event, marking the seventh consecutive event completed by Apex where PCE and other HVOCs were below groundwater cleanup levels.

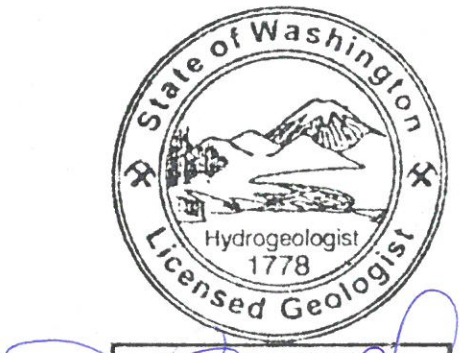
Ecology has commented that the groundwater monitoring network does not provide for adequate assessment and that only MW-4 is located downgradient of the source area. Water levels measured during the groundwater monitoring events have consistently shown a northeasterly hydraulic gradient. Figure 2 shows water levels and the approximate potentiometric surface based on the 2016 sampling event and similar plans prepared by Apex for other events (as included in the 2015 SI report) are included in Appendix C. The maps show a consistent northeasterly gradient at the site, which places MW-4 and MW-3 in downgradient positions relative to the former dry cleaning machine.

Soil Vapor and Ambient Air. A Tier II evaluation (Apex, 2015) completed based on two rounds of soil vapor and ambient air monitoring concluded that residual PCE in soil vapor is the remnants of a small, shallow, localized source. Apex completed a third round of soil vapor and ambient air monitoring in 2016 which further supported these results. In each case, while soil vapor with PCE above the vapor intrusion SLs is present, ambient air at the point of exposure inside the building is below the MTCA Method B cleanup levels. The results from these three rounds of soil vapor and ambient air sampling indicate that the residual PCE in soil vapor does not represent a future risk to air quality at the site.

CLOSING

We appreciate Ecology's prior review and input on this project. As indicated in this document, Apex believes that conditions at the site do not require cleanup action under WAC 173-340 and closure is warranted. We would like request Ecology's review and opinion of this report. Regency and Apex would welcome the opportunity to discuss Ecology's review and opinion in person or a teleconference at your convenience.

Sincerely,



John Foxwell, LHg
Senior Associate Hydrogeologist

APEX

ATTACHMENTS

Table 1 – Soil Sampling Analytical Results
Table 2 – Groundwater Elevations
Table 3 – Groundwater Sampling Analytical Results
Table 4 – Vapor Intrusion Evaluation Sampling Analytical Results

Figure 1 – Site Location Map
Figure 2 – Site layout
Figure 3 – Site Plan
Figure 4 – Soil Results
Figure 5 – Groundwater Results
Figure 6 – PCE Soil Vapor and Ambient Air Results
Figure 7 – Cross-Section A-A'
Figure 8 – Cross-Section B-B'

Attachment A – Laboratory Analytical Reports
Attachment B – Soil and Soil Vapor Point Construction Logs

cc: Eric Silvers, Sarah Gregory, Regency Centers

REFERENCES

Ecology, 2010. *Draft Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action.* October 2009.

Apex, 2016. *Data Gap Site Investigation Work Plan, Classic Cleaners – Cascade Plaza, 7601-7725 Evergreen Way*. February 3, 2016.

Apex, 2015. *Site Investigation Report, Classic Cleaners, Cascade Plaza, Everett, Washington*. July 21, 2016.

Table 1 – Soil Sampling Analytical Results
Classic Cleaners
Everett, Washington

Sample Location (Depth)	Sample Date	HVOC concentrations (mg/kg)					
		PCE	TCE	cis-1,2-DCE	Vinyl Chloride	Chloroform	1,1,2 -TCA
	MTCA CUL (mg/kg)	0.05[a]	0.03[a]	160[b]	240[b]	800[b]	2[a]
HB-1 (8")	6/9/1997	**0.32**	<0.05	<0.05	<0.05	<0.05	<0.05
HB-2 (8")	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
HB-3 (8")	6/9/1997	**0.13**	<0.05	<0.05	<0.05	<0.05	<0.05
HB-3 (3')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-1 (5')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-1 (7.5')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-1 (10')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-2 (5')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-2 (7.5')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-2 (10')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-3 (5')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-3 (7.5')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-3 (10')	6/9/1997	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MW-1 (10')	7/30/1997	ND*	ND*	ND*	ND*	ND*	ND*
MW-2 (10')	7/30/1997	ND*	ND*	ND*	ND*	ND*	ND*
MW-3 (10')	7/30/1997	ND*	ND*	ND*	ND*	ND*	ND*
Core 1 (1')	5/6/1999	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094
Core 2 (1')	5/6/1999	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092
Core 3 (1')	5/6/1999	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
MW-4/S-3 (12.5')	5/7/1999	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
HB-4 (1')	12/10/2002	**0.0013**	<1.28	<1.28	<1.28	<1.28	<1.28
HB-5 (1')	12/10/2002	**0.00919**	<1.12	<1.12	<1.12	<1.12	<1.12
HB-6 (3')	12/10/2002	**0.00514**	<1.21	<1.21	<1.21	<1.21	<1.21
B-4 (1-2')	9/22/2014	**0.0097**	<0.00028	<0.00028	<0.00028	NA	NA
B-4 (3')	9/22/2014	**0.0029**	<0.00035	<0.00035	<0.00035	NA	NA
B-5 (2'-3')	9/22/2014	**0.006**	<0.0003	<0.0003	<0.0003	NA	NA
B-5 (4.5')	9/22/2014	**0.0013**	<0.00027	<0.00027	<0.00027	NA	NA
B-6 (2'-3')	9/22/2014	**0.00057**	<0.0003	<0.0003	<0.0003	NA	NA
B-6 (4')	9/22/2014	**0.0016**	<0.00033	<0.00033	<0.00033	NA	NA
B-7 (0-1')	9/22/2014	**0.00095**	<0.00029	<0.00029	<0.00029	NA	NA
B-7 (7')	9/22/2014	**0.00065**	<0.00037	<0.00037	<0.00037	NA	NA
B-7 (1')	4/27/2016	**0.0129**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B-8 (1')	4/27/2016	**0.0225**	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
B-8 (4')	4/27/2016	**0.0167**	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
B-8 (9')	4/27/2016	**0.0024 J**	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
B-9 (1')	4/27/2016	**0.0011 J**	<0.0024	<0.0024	<0.0024	<0.00024	<0.00024
VP-1 (1')	4/27/2016	**0.0130**	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
VP-1 (3')	4/27/2016	**0.0024 J**	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
VP-2 (1')	4/27/2016	**0.0029 J**	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
VP-2 (4')	4/27/2016	**0.0067**	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056

Notes:

1. HVOC = Halogenated volatile organic compound.
2. PCE = Tetrachloroethene.
3. TCE = Trichloroethene.
4. DCE = Dichloroethene.
5. TCA = Trichloroethane.
6. MTCA CUL = Model Toxics Control Act Cleanup Level.
7. mg/kg = milligram per kilogram.
8. a = MTCA Method A Unrestricted Land Use Table Value.
9. b = MTCA Method B Non-Carcinogen CUL Standard Formula Value (Unrestricted Land Use).
10. ND* = Not detected at a concentration above the method detection limit, which is not available for this report.
11. < = Not detected at a concentration above the method reporting limit or practical quantitation limit.
12. Bold = analyte was detected at a concentration above the method detection limit.
13. Shaded = concentration exceeds the CUL.
14. J = Estimated value. Concentration detected between the method reporting limit and method detection limit.

Table 2 – Groundwater Elevations
Classic Cleaners
Everett, Washington

Well ID	Date	Reference Elevation (feet)[1]	Depth To Groundwater (feet)	Groundwater Elevation (feet)
MW-1	7/31/1997	505.14	7.91	497.23
	2/11/1998	505.14	7.91	497.23
	11/9/1998	505.14	8.73	496.41
	5/6/1999	505.14	7.80	497.34
	5/7/1999	505.14	7.87	497.27
	8/11/1999	505.14	8.25	496.89
	12/29/1999	505.14	7.94	497.20
	3/30/2000	505.14	7.92	497.22
	8/2/2000	505.14	8.59	496.55
	7/16/2013	505.14	8.21	496.93
	3/27/2014	505.14	7.62	497.52
	6/25/2014	505.14	8.20	496.94
	9/22/2014	505.14	8.60	496.54
	10/8/2014	505.14	NM	--
	11/12/2014	505.14	8.08	497.06
	5/24/2016	505.14	8.10	497.04
MW-2	7/31/1997	505.93	8.81	497.12
	2/11/1998	505.93	8.98	496.95
	11/9/1998	505.93	10.05	495.88
	5/6/1999	505.93	8.94	496.99
	5/7/1999	505.93	9.04	496.89
	8/11/1999	505.93	9.62	496.31
	12/29/1999	505.93	9.31	496.62
	3/30/2000	505.93	9.11	496.82
	8/2/2000	505.93	10.23	495.70
	7/16/2013	505.93	9.70	496.23
	3/27/2014	505.93	8.79	497.14
	6/25/2014	505.93	9.50	496.43
	9/22/2014	505.93	10.23	495.70
	10/8/2014	505.93	10.05	495.88
	11/12/2014	505.93	9.20	496.73
	5/24/2016	505.93	9.47	496.46
MW-3	7/31/1997	505.90	8.99	496.91
	2/11/1998	505.90	9.07	496.83
	11/9/1998	505.90	10.14	495.76
	5/6/1999	505.90	9.06	496.84
	5/7/1999	505.90	9.10	496.80
	8/11/1999	505.90	9.65	496.25
	12/28/1999	505.90	9.23	496.67
	3/30/2000	505.90	9.18	496.72
	8/2/2000	505.90	10.27	495.63
	7/16/2013	505.90	9.77	496.13
	3/27/2014	505.90	8.90	497.00
	6/25/2014	505.90	9.60	496.30
	9/22/2014	505.90	10.33	495.57
	10/8/2014	505.90	10.16	495.74
	11/12/2014	505.90	9.30	496.60
	5/24/2016	505.90	9.62	496.28
MW-4	5/6/1999	505.65	8.93	496.72
	8/11/1999	505.65	9.93	495.72
	12/28/1999	505.65	9.60	496.05
	3/30/2000	505.65	9.43	496.22
	8/2/2000	505.65	10.52	495.13
	7/16/2013	505.65	10.07	495.58
	3/27/2014	505.65	9.27	496.38
	6/25/2014	505.65	9.90	495.75
	9/22/2014	505.65	10.58	495.07
	10/8/2014	505.65	NM	--
	11/12/2014	505.65	9.65	496.00
	5/24/2016	505.65	9.90	495.75

Notes:

1. Reference elevation (i.e., top of casing) relative to City of Everett Datum, survey conducted in July 1997 by Hallin & Associates.
2. NM = Not measured.
3. -- = Not applicable; depth to groundwater was not measured.

Table 3 – Groundwater Sampling Analytical Results
Classic Cleaners
Everett, Washington

Sample Location	Sample Date	HVOC concentration (ug/L)					
		PCE	TCE	cis-1,2-DCE	Vinyl Chloride	Chloroform	1,1,1-TCA
	MTCA CUL (ug/L)	5[a]	5[a]	16[b]	0.2[a]	80[b]	200[a]
	Updated Vapor Intrusion SL (ug/L)	22.9	1.6	--	0.347	1.2	5,240
B-2-W	6/6/1997	1.3	<0.5	<0.5	<0.5	*5.3*	<0.5
B-3-W	6/6/1997	3.6	<0.5	<0.5	<0.5	*16*	<0.5
MW-1	7/31/1997	<0.5	<0.5	<0.5	<0.5	0.9	<0.5
	2/11/1998	<10	<10	<10	<10	<10	<10
	11/9/1998	<2	<2	<2	<2	<2	<2
	5/6/1999	<0.4	<0.4	<0.4	<0.2	<0.4	<0.4
	8/11/1999	<0.4	<0.4	<0.4	<0.2	<0.4	<0.4
	12/28/1999	<0.4	<0.4	<0.4	<0.2	<0.4	<0.4
	3/30/2000	<0.4	<0.4	<0.4	<0.2	<0.4	<0.4
	8/2/2000	<0.4	<0.4	<0.4	<0.2	<0.4	<0.4
	7/16/2013	<1	<1	<1	<1	<1	<1
	3/27/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/25/2014	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1
	6/25/2014 DUP	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1
	9/22/2014	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1
	11/12/2014	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1
	5/24/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2	7/31/1997	3.8	<0.5	<0.5	<0.5	*15*	<0.5
	2/11/1998	<2	<2	<2	<2	<2	<2
	11/9/1998	*3*	<0.4	<0.4	<0.2	*3*	8
	5/6/1999	1.1	<0.4	<0.4	<0.2	<0.4	<0.4
	8/11/1999	1.2	<0.4	<0.4	<0.2	0.37	<0.4
	12/28/1999	1	<0.4	<0.4	<0.2	*0.71*	<0.4
	3/30/2000	0.62	<0.4	<0.4	<0.2	<0.4	<0.4
	8/2/2000	0.82	<0.4	<0.4	<0.2	<0.4	<0.4
	7/16/2013	<1	<1	<1	<1	<1	<1
	7/16/2013 DUP	<1	<1	<1	<1	<1	<1
	3/27/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/27/2014 DUP	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/25/2014	0.24	<0.1	<0.1	<0.02	<0.1	<0.1
	10/8/2014	0.15	0.06 J	0.026	<0.02	<0.1	<0.1
	11/12/2014	0.2	<0.1	<0.1	<0.02	<0.1	<0.1
	5/24/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/24/16 DUP	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	7/31/1997	*3.9*	<0.5	<0.5	<0.5	*15*	<0.5
	2/11/1998	<2	<2	<2	<2	*5.2*	<2
	11/9/1998	*3*	<0.4	<0.4	<0.2	*8*	<0.4
	5/6/1999	1.3	<0.4	<0.4	<0.2	0.51	<0.4
	8/11/1999	1.4	<0.4	<0.4	<0.2	0.64	3
	12/28/1999	1.4	<0.4	<0.4	<0.2	<0.4	<0.4
	3/30/2000	1.2	<0.4	<0.4	<0.2	<0.4	<0.4
	8/2/2000	1.2	<0.4	<0.4	<0.2	<0.4	<0.4
	7/16/2013	<1	<1	<1	<1	<1	<1
	3/27/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/25/2014	0.18	<0.1	<0.1	<0.02	<0.1	<0.1
	9/22/2014	0.17	0.073	0.13 J	<0.02	<0.1	<0.1
	10/8/2014	0.21	0.087 J	0.12	0.031	<0.1	<0.1
	10/8/2014 DUP	0.21	0.068 J	0.13	<0.02	<0.1	<0.1
	11/12/2014	0.17	<0.1	0.11	<0.02	<0.1	<0.1
	5/24/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Please see notes at end of table.

Table 3 – Groundwater Sampling Analytical Results
Classic Cleaners
Everett, Washington

Sample Location	Sample Date	HVOC concentration (ug/L)					
		PCE	TCE	cis-1,2-DCE	Vinyl Chloride	Chloroform	1,1,1-TCA
MTCA CUL (ug/L)		5[a]	5[a]	16[b]	0.2[a]	80[b]	200[a]
Updated Vapor Intrusion SL (ug/L)		22.9	1.6	--	0.347	1.2	5,240
MW-4	5/6/1999	0.41	<0.4	<0.4	<0.2	*2.1*	<0.5
	8/11/1999	0.16	<0.4	<0.4	<0.2	*0.99*	<0.4
	12/28/1999	0.11	<0.4	<0.4	<0.2	0.46	<0.4
	3/30/2000	<0.4	<0.4	<0.4	<0.2	<0.4	<0.4
	8/2/2000	<0.4	<0.4	<0.4	<0.2	0.4	<0.4
	7/16/2013	<1	<1	<1	<1	<1	<1
	3/27/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/25/2014	<0.5	<0.5	<0.5	<0.5	0.36	<0.5
	9/22/2014	0.062 J	<0.025	<0.025	<0.013	0.36	<0.025
	11/12/2014	<0.1	<0.1	<0.1	<0.02	0.33	<0.1
	11/12/2014 DUP	<0.1	<0.1	<0.1	<0.02	0.31	<0.1
	5/24/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
HB-4 GW	12/10/2002	9.36	<1	<1	<0.4	*3.08*	<1
HB-5 GW	12/10/2002	4.92	<1	<1	<0.4	<1	<1

Notes:

1. HVOC = Halogenated volatile organic compound.
2. PCE = Tetrachloroethene.
3. TCE = Trichloroethene.
4. DCE = Dichloroethene.
5. TCA = Trichloroethane.
6. MTCA CUL = Model Toxics Control Act Cleanup Level.
7. Updated Air and Vapor Intrusion Screening Levels (SL) from updated SL table at http://www.ecy.wa.gov/programs/tcp/policies/VaporIntrusion/2015-changes.html
8. -- = SL not available
9. ug/L = microgram per liter.
10. a = MTCA Method A Table Value.
11. b = MTCA Method B Non-Carcinogen CUL Standard Formula Value (Unrestricted Land Use).
12. < = Not detected at a concentration above the method reporting limit or practical quantitation limit.
13. Bold = analyte was detected at a concentration above the method detection limit.
14. Shaded concentration exceeds the groundwater CUL.
15. Italicized concentration exceeds the vapor intrusion SL.

Table 4 – Vapor Intrusion Evaluation Sampling Analytical Results
Classic Cleaners
Everett, Washington

Sample Location (Depth)	Sample Date	HVOC concentrations (ug/m^3)			
		PCE	TCE	cis-1,2-DCE	Vinyl Chloride
Vapor Intrusion SL (ug/m3)		321	12.3	--	9.33
Temporary Soil Vapor Sample Locations					
VS-1 (3")	10/4/2013	*2,500*	<1.3	<6.5	<4.2
VS-2 (3")	10/4/2013	*3,600*	<2.7	<9.9	<6.4
VS-3 (3")	11/20/2013	*2,400*	<5.2	<3.8	<2.4
VS-4 (3")	11/20/2013	*990*	<5.1	<3.8	<2.4
VS-5 (3")	12/6/2013	<8.1	<6.4	<4.7	<3.0
VS-6 (3")	12/6/2013	8.4	<5.7	<4.2	<2.7
VS-7 (3")	12/6/2013	<7.1	<5.6	<4.1	<2.7
VS-8 (5')	12/19/2013	<8.3	<6.6	<4.9	<3.1
VS-9 (5')	12/19/2013	<7.1	<5.6	<4.1	<2.7
VS-10 (5')	12/19/2013	<7.0	<5.6	<4.1	<2.6
VS-11 (5')	12/19/2013	<6.8	<5.4	<4.0	<2.6
VS-12 (5')	12/19/2013	<7.1	<5.6	<4.1	<2.7
VS-13 (5')	12/19/2013	<6.8	<5.4	<4.0	<2.6
VS-14 (5')	12/19/2013	<7.0	10	<4.1	<2.6
VS-15 (5')	12/19/2013	<7.0	<5.5	<4.2	<2.6
VS-16 (3")	9/22/2014	150	8.4	1.9	<0.58
VS-17 (3")	9/22/2014	*5,600*	<23	<17	<11
VS-18 (3")	9/22/2014	9	<1.3	<0.99	<0.32
Permanent Soil Vapor Locations					
VP-1	5/24/2016	8,800	<19	<14	<8.9
VP-2	5/24/2016	10,000	<21	<16	<10
Method B Cleanup Level (ug/m^3)		9.6	0.37	--	0.28
Ambient Air Stations					
AA-1 (Backgound)	12/6/2013	<0.21	<0.16	<0.12	<0.039
AA-2 (Indoors)	11/20/2013	<5.6	<4.5	<3.3	<2.1
AA-3 (Indoors)	11/20/2013	<5.6	<4.5	<3.3	<2.1
AA-4 (Background)	9/22/2014	<0.23	0.2	<0.14	<0.044
AA-5 (Indoors)	9/22/2014	0.52	<0.17	<0.13	<0.041
AA-6 (Indoors)	9/22/2014	<0.23	<0.18	<0.13	<0.043
AA-7 (Background)	5/24/2016	1.3	<0.22	<0.16	<0.053
AA-8 (Indoor)	5/24/2016	5.4	<0.19	<0.14	<0.044

Notes:

1. HVOC = Halogenated Volatile Organic Compound.
2. PCE = Tetrachloroethene.
3. TCE = Trichloroethene.
4. DCE = Dichloroethene.
5. ug/m^3 = microgram per cubic meter.
6. Updated Vapor Intrusion Screening Levels (SL) from updated SL table at http://www.ecy.wa.gov/programs/tcp/policies/VaporIntrusion/2015-changes.html
7. MTCA CUL = Model Toxics Control Act Cleanup Level (Unrestricted Land Use).
8. Bold = analyte was detected at a concentration above the method detection limit.
9. Shaded = concentration exceeds the SL.
10. < = Not detected at a concentration above the method reporting limit or practical quantitation limit.
11. Ambient air samples collected on May 24, 2016 named AA-1 (Background) and AA-2 (Indoor) were renamed AA-7 (Background) and AA-8 (Indoor) post sample collection and analaytical analyses to maintain cohesion in the sampling timeline. Tables and figures reflect the nomenclature change.

Note: Base map prepared from USGS 7.5-minute quadrangle of Everett, WA, dated 2014 as provided by USGS.gov.

Site Location Map

Former Cascade Cleaners
Cascade Plaza
Everett, Washington

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	REGEN-043	Figure
February 2017		1

Legend:

- **MW-1** Monitoring Well Location
- **VS-3** Soil Gas Sample Location (2013)
- **AA-2** Indoor Ambient Air Sample Location (2013)
- **AA-1** Outdoor Ambient Air Sample Location (2013)
- **HB-6** Soil Sample Location (2002)
- **Core 1** Soil Sample Location (1999)
- **B-1** Soil Sample Location (1997)
- **B-2** Soil and Groundwater Sample Location (1997)
- **VS-18** Soil Gas Sample Location (2014)

NOTES: Base map prepared from 2013 - Google Imagery. Aerial dated July 5, 2012.

B004 = Unit Number

0 50 100

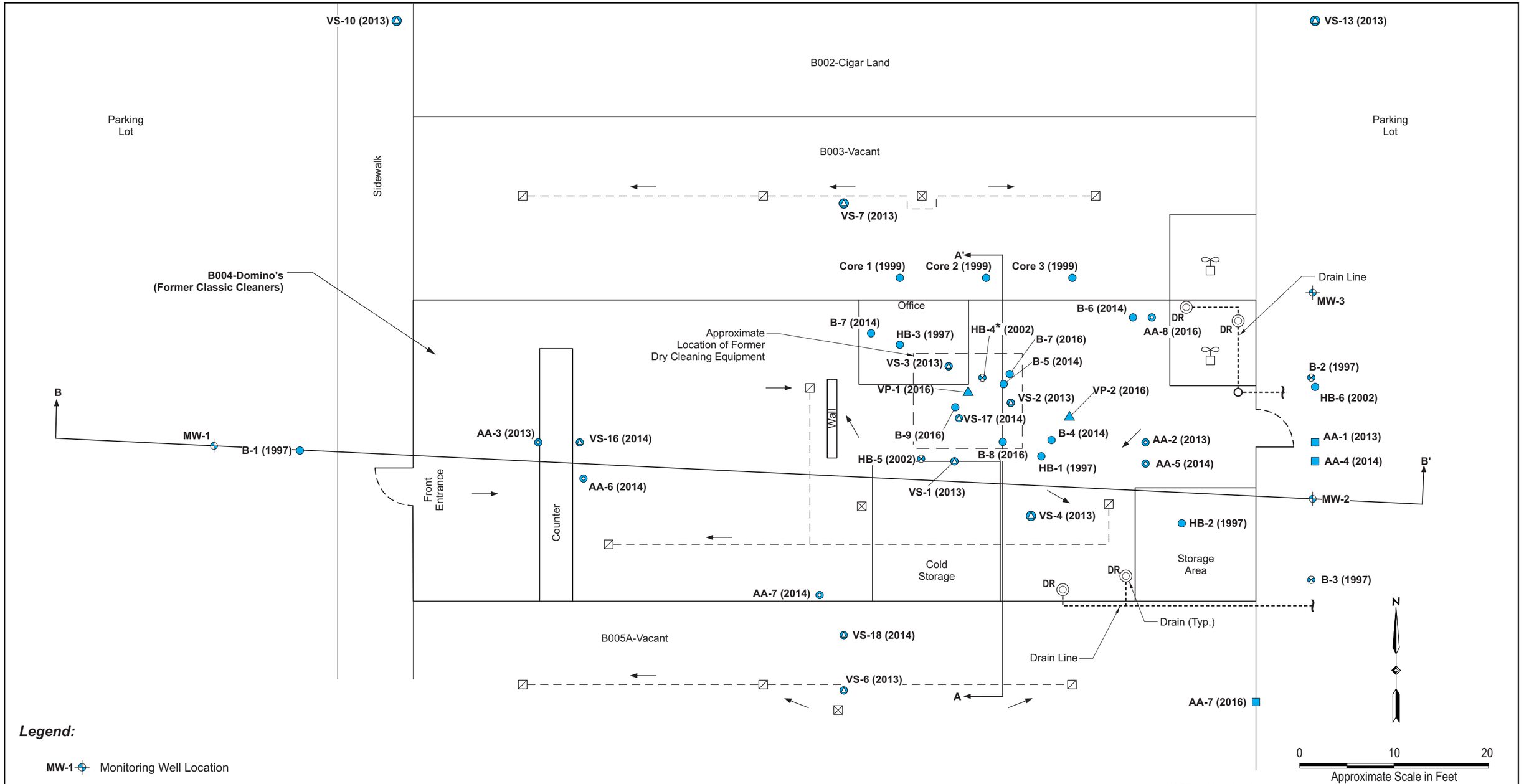
Approximate Scale in Feet

Site Layout

Former Cascade Cleaners
Cascade Plaza
Everett, Washington

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	REGEN-043	Figure
February 2017		2



NOTE: B004 = Unit Number

Legend:

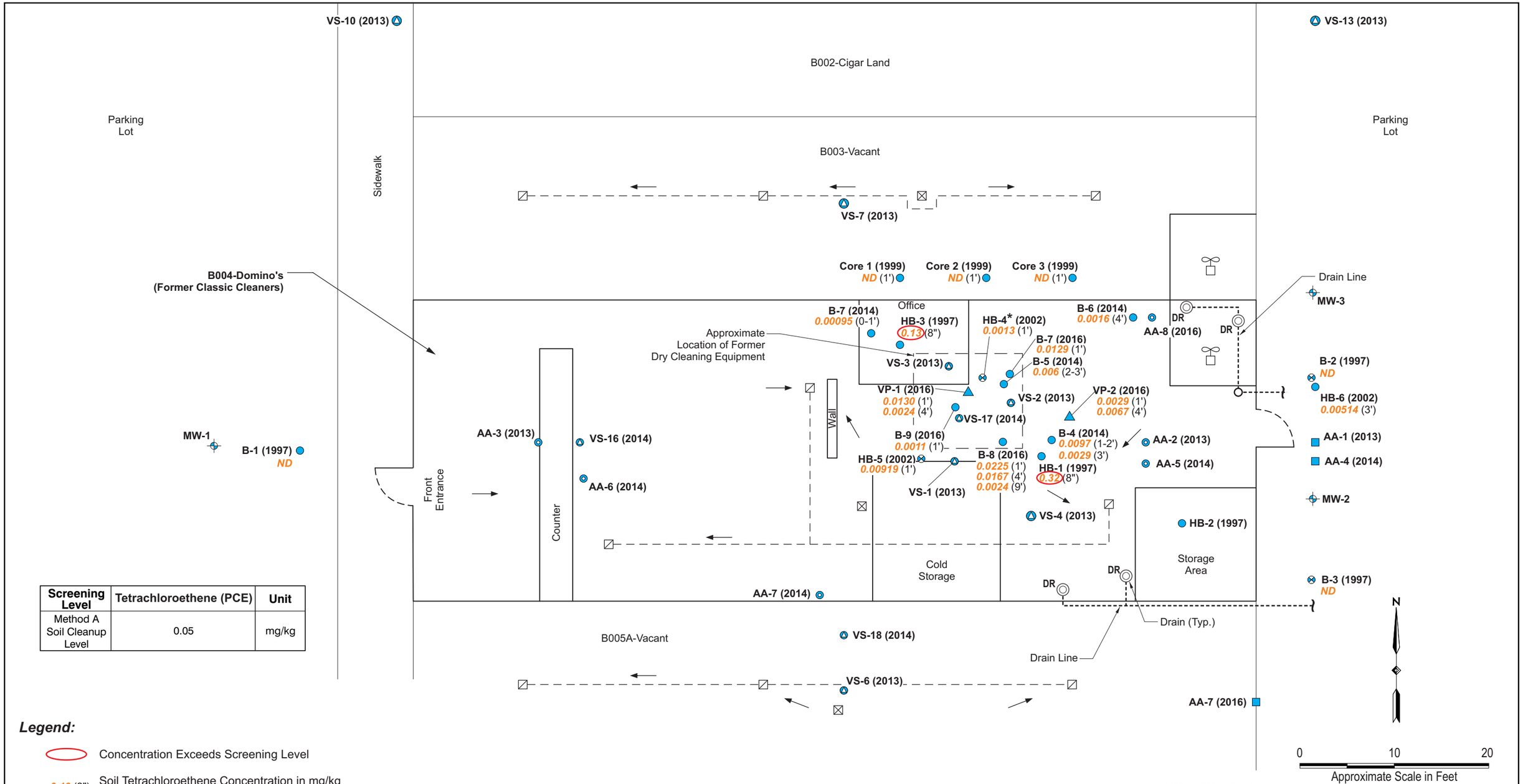
- **MW-1** — Monitoring Well Location
- **VS-3 (2013)** — Soil Gas Sample Location (2013, 2014)
- **AA-2 (2016)** — Indoor Ambient Air Sample Location (2013, 2014, 2016)
- **AA-1 (2016)** — Outdoor Ambient Air Sample Location (2013, 2014, 2016)
- **B-7 (2016)** — Boring Location (1997, 1999, 2002, 2014, 2016)
- **HB-4 (2002)** — Soil and Groundwater Sample Location (1997, 2002)
- **VP-1 (2016)** — Permanent Soil Vapor Monitoring Location (2016)
- Axial Fan Location
- HVAC Return
- HVAC Vent
- Air Flow Direction (Inferred)
- A A' — Cross-Section Location (See Figures 7 and 8)

Site Plan

Former Cascade Cleaners
Cascade Plaza
Everett, Washington

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	Figure
REGEN-043	3
February 2017	



Screening Level	Tetrachloroethene (PCE)	Unit
Method A Soil Cleanup Level	0.05	mg/kg

NOTE: B004 = Unit Number

Legend:

- Concentration Exceeds Screening Level
- *0.13* (8") — Soil Tetrachloroethene Concentration in mg/kg and (Sample Depth BGS)
- MW-1 — Monitoring Well Location
- Axial Fan Location
- HVAC Return
- HVAC Vent
- Air Flow Direction (Inferred)
- VS-3 (2013) — Soil Gas Sample Location (2013, 2014)
- AA-2 (2016) — Indoor Ambient Air Sample Location (2013, 2014, 2016)
- AA-1 (2016) — Outdoor Ambient Air Sample Location (2013, 2014, 2016)
- B-7 (2016) — Boring Location (1997, 1999, 2002, 2014, 2016)
- HB-4 (2002) — Soil and Groundwater Sample Location (1997, 2002)
- VP-1 (2016) — Permanent Soil Vapor Monitoring Location (2016)

Soil Results

Former Cascade Cleaners
Cascade Plaza
Everett, Washington

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number REGEN-043

February 2017

Figure 4

Legend:

MW-1 ⊕ Monitoring Well Location

HB-5 ⊗ Groundwater Sample Location (2002)

HB-4* HB-4 is the only Interior Sample Location Ever to Exceed the 5 µg/L Cleanup Level (9.36 µg/L) - This was a Discrete Groundwater Sample

NOTES: Base map prepared from 2013 - Google Imagery. Aerial dated July 5, 2012.

B004 = Unit Number

0 50 100

Approximate Scale in Feet

MW-1	
<1	7/16/2013
<0.5	3/27/2014
<0.1	6/25/2014
<0.1	9/22/2014
<0.1	11/12/2014
<1.0	5/24/2016

Location Identification

Tetrachloroethene Concentration in µg/L

Sampling Date

Screening Level	Tetrachloroethene (PCE)	Unit
MTCA Method A Groundwater Cleanup Level	5	µg/L
Updated Vapor Intrusion Screening Level	22.9	µg/L

Groundwater Results

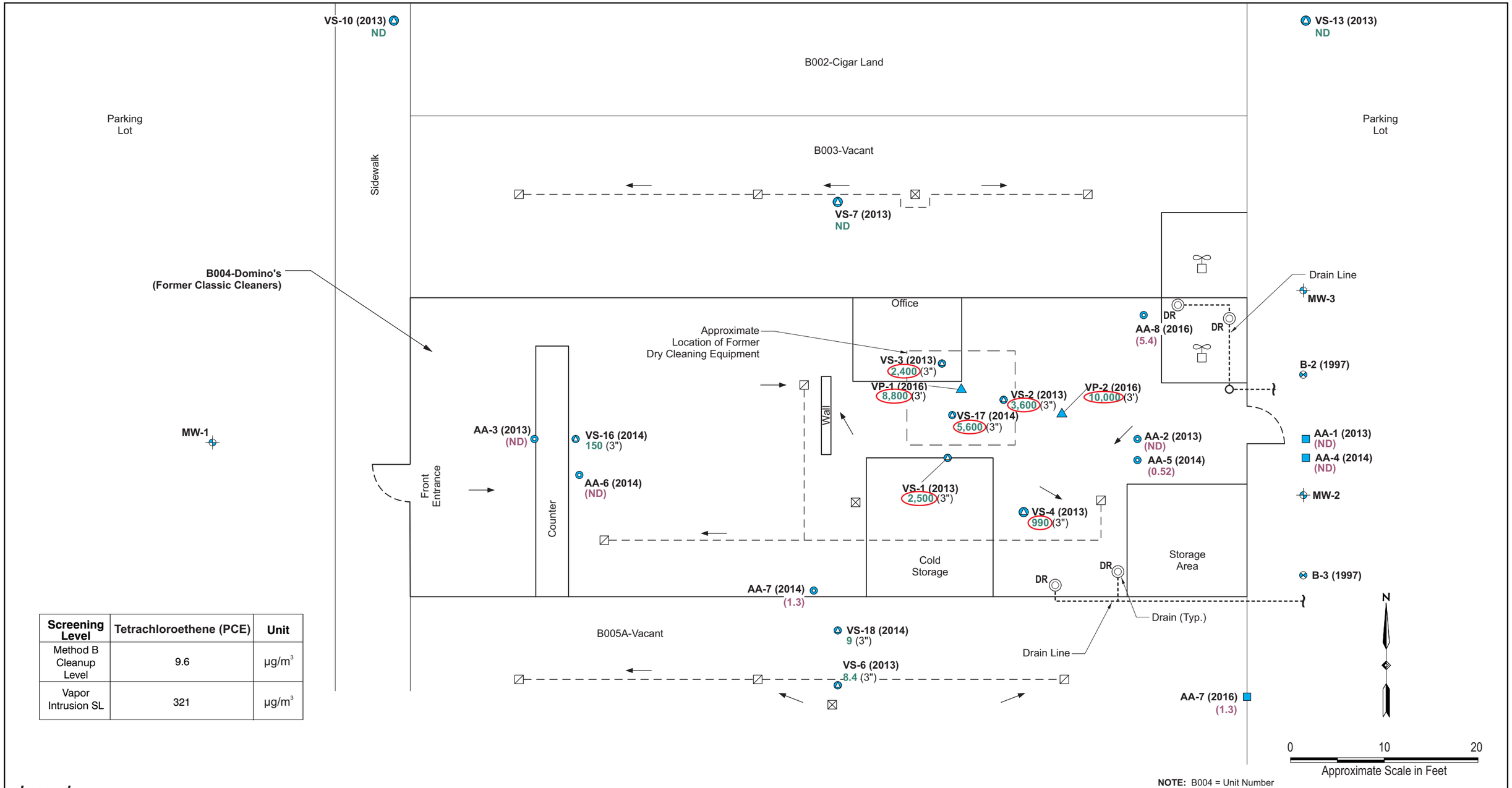
Former Cascade Cleaners
Cascade Plaza
Everett, Washington

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number REGEN-043

February 2017

Figure 5



Screening Level	Tetrachloroethene (PCE)	Unit
Method B Cleanup Level	9.6	µg/m^3
Vapor Intrusion SL	321	µg/m^3

NOTE: B004 = Unit Number

Legend:

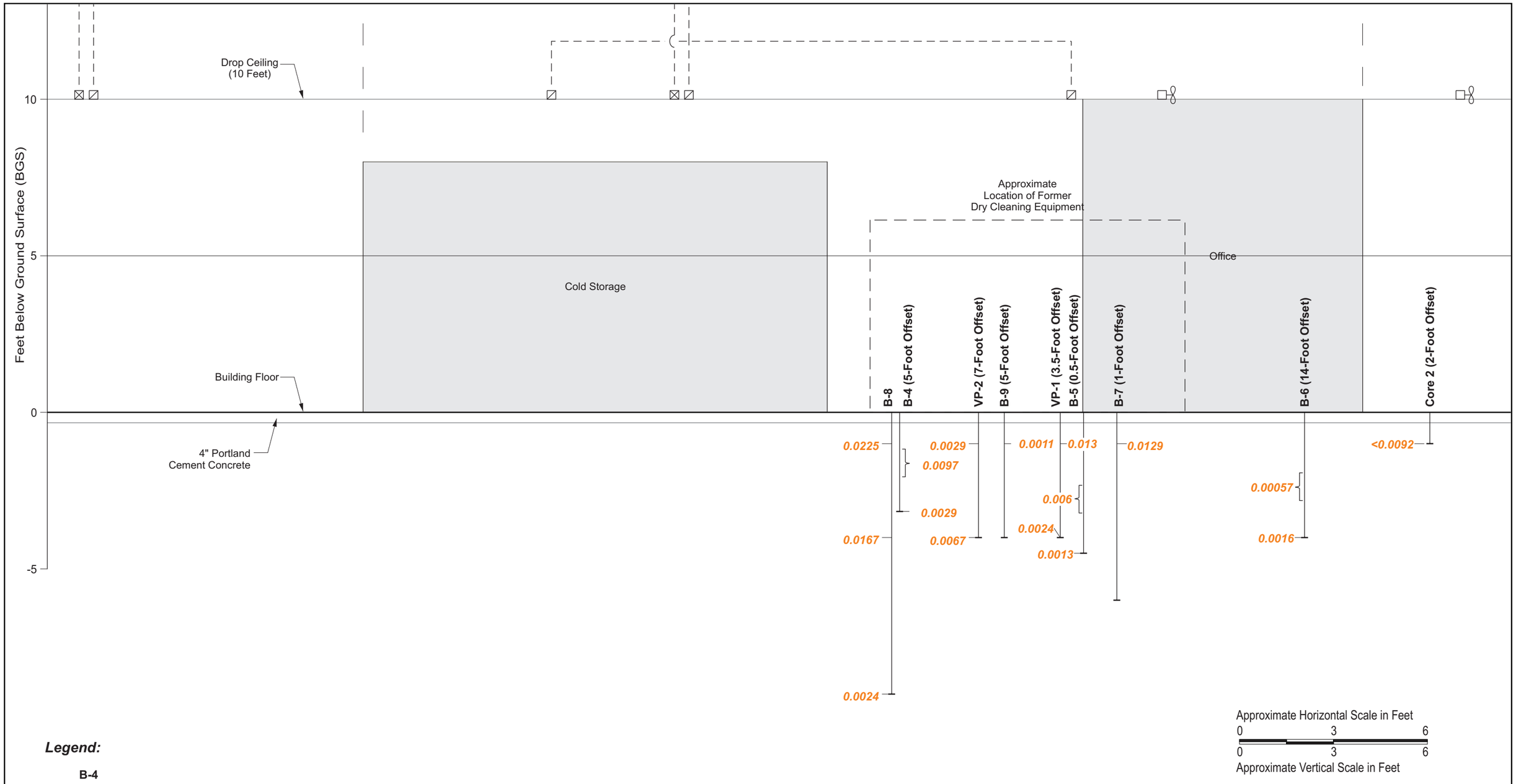
- Concentration Exceeds Screening Level
- (1.3) Ambient Air Sample Tetrachloroethene Concentration in µg/m^3
- 1.56 (4.5') Soil Vapor Tetrachloroethene Concentration in µg/m^3 and (Soil Gas Sample Depth BGS)
- MW-1 Monitoring Well Location
- VS-3 (2013) Soil Gas Sample Location (2013, 2014)
- AA-2 (2016) Indoor Ambient Air Sample Location (2013, 2014, 2016)
- AA-1 (2016) Outdoor Ambient Air Sample Location (2013, 2014, 2016)
- VP-1 (2016) Permanent Soil Vapor Monitoring Location (2016)
- Axial Fan Location
- HVAC Return
- HVAC Vent
- Air Flow Direction (Inferred)

PCE Soil Vapor and Ambient Air Results

Former Cascade Cleaners
Cascade Plaza
Everett, Washington

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	REGEN-043	Figure
February 2017		6



Legend:

B-4 Boring Location

0.2 Soil Tetrachloroethene Concentration in mg/kg

Axial Fan Location

HVAC Return

HVAC Vent

Air Flow Direction (Inferred)

Approximate Horizontal Scale in Feet
0 3 6
0 3 6
Approximate Vertical Scale in Feet

Cross-Section A-A'

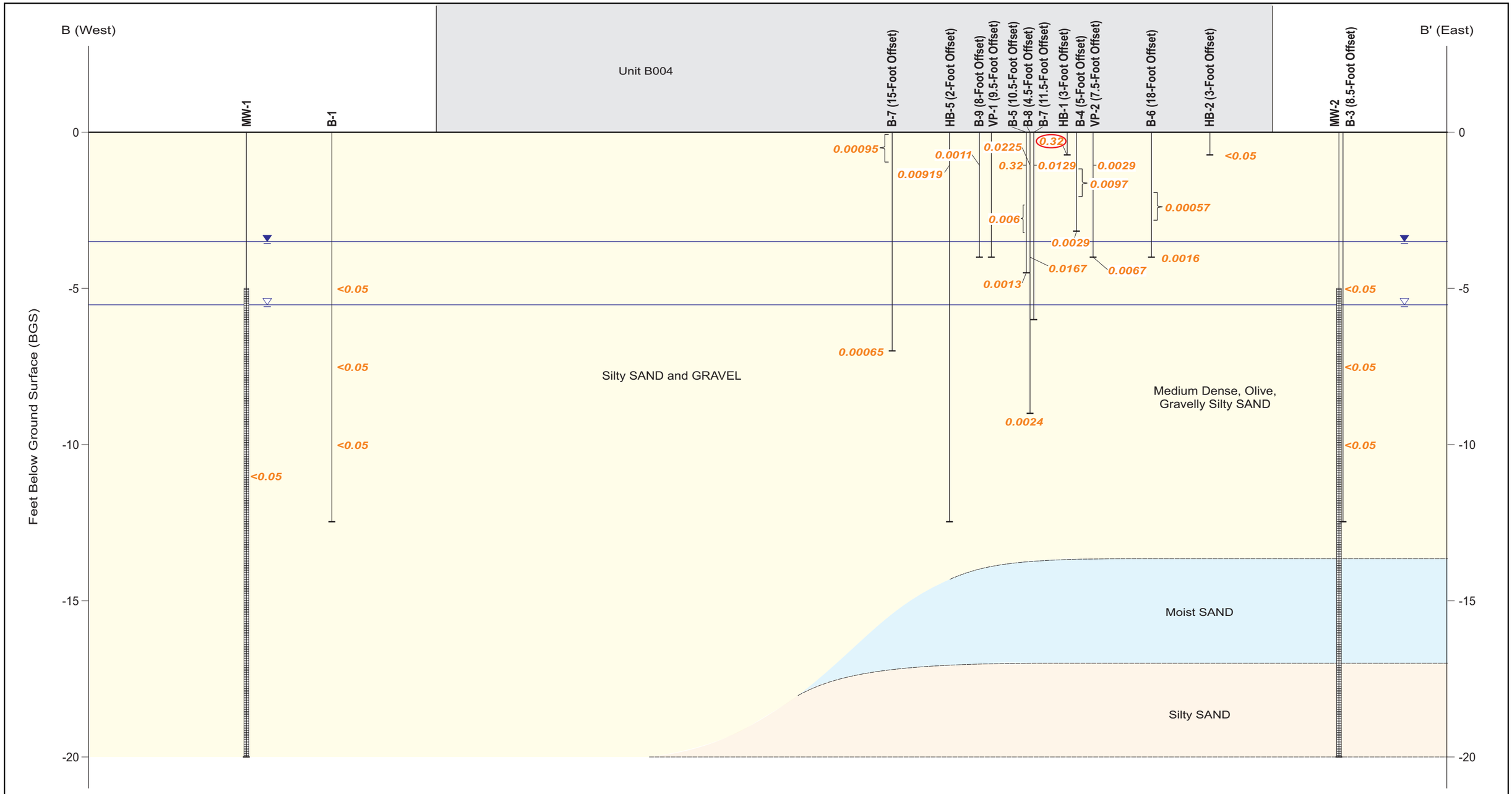
Former Cascade Cleaners
Cascade Plaza
Everett, Washington

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number REGEN-043

February 2017

Figure 7



Legend:

MW-1 — Monitoring Well Location

Typical High Groundwater Level - Gauged 3/27/2014

Typical Groundwater Level - Gauged 9/22/2014

0.2 — Soil Tetrachloroethene (PCE) Concentration in mg/kg

Screen Interval

SAND

Gravelly SAND/SILT

Silty SAND

Concentration Exceeds MTCA Method A Soil Cleanup Level for PCE (0.05 mg/kg)

Approximate Horizontal Scale in Feet
0 10 20
0 3 6
Approximate Vertical Scale in Feet

Cross-Section B-B'

Former Cascade Cleaners
Cascade Plaza
Everett, Washington

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number REGEN-043

February 2017

Figure 8

Attachment A

Laboratory Analytical Reports

e-Hardcopy 2.0
Automated Report

Technical Report for

Apex Companies

Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

REGEN-010

SGS Accutest Job Number: C45621

Sampling Date: 04/27/16

Report to:

Apex Companies, LLC
3015 SW First Avenue
Portland, OR 97201
AFines@apexcos.com; jfoxwell@apexcos.com

ATTN: Ashleigh Fines

Total number of pages in report: 47

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

Sections: 1 2 3 4 5 6

Table of Contents

Sample Summary

Apex Companies

Job No: C45621

Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA
Project No: REGEN-010

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C45621-1	04/27/16	04:40	JM	04/29/16	SO	Soil	B-9(1)
C45621-2	04/27/16	05:00	JM	04/29/16	SO	Soil	B-9(2)
C45621-3	04/27/16	03:20	JM	04/29/16	SO	Soil	B-8(1)
C45621-4	04/27/16	03:30	JM	04/29/16	SO	Soil	B-8(2)
C45621-5	04/27/16	04:10	JM	04/29/16	SO	Soil	B-8(3)
C45621-7	04/27/16	03:00	JM	04/29/16	SO	Soil	B-7(2)
C45621-8	04/27/16	02:20	JM	04/29/16	SO	Soil	VP-2(1)
C45621-9	04/27/16	02:40	JM	04/29/16	SO	Soil	VP-2(2)
C45621-10	04/27/16	02:00	JM	04/29/16	SO	Soil	VP-1(1)
C45621-11	04/27/16	02:05	JM	04/29/16	SO	Soil	VP-1(2)
C45621-12	04/27/16	00:00	JM	04/29/16	AQ	Trip Blank Water	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Apex Companies	**Job No**	C45621
Site:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA	**Report Date**	5/16/2016 5:04:09 PM

9 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 04/27/2016 and were received at Accutest on 04/29/2016 properly preserved, at 5.9 Deg. C and intact. These Samples received an Accutest job number of C45621. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VU1415

- Sample(s) C45668-3MS, C45668-3MSD were used as the QC samples indicated.
- Sample(s) C45621-12 have for Methyl chloride a CCV outside of control limits (biased high); not detected in sample.
- Blank Spike Recovery(s) for Chloroethane, Methyl chloride are outside laboratory control limits (high bias); not detected in associated samples.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Methyl chloride, Trichloroethylene are outside laboratory control limits.

Wet Chemistry By Method SM2540MOD G-97

Matrix: SO **Batch ID:** GN19004

- Sample(s) C45621-2DUP were used as the QC samples for Moisture, Percent.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C45621
Account: Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA
Collected: 04/27/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C45621-2	**B-9(2)**					
Tetrachloroethylene		1.1 J	2.4	0.29	ug/kg	SW846 8260B
C45621-3	**B-8(1)**					
Tetrachloroethylene		22.5	4.4	0.53	ug/kg	SW846 8260B
C45621-4	**B-8(2)**					
Tetrachloroethylene		16.7	5.1	0.61	ug/kg	SW846 8260B
C45621-5	**B-8(3)**					
Tetrachloroethylene		2.4 J	4.8	0.58	ug/kg	SW846 8260B
C45621-7	**B-7(2)**					
Tetrachloroethylene		12.9	5.0	0.60	ug/kg	SW846 8260B
C45621-8	**VP-2(1)**					
Tetrachloroethylene		2.9 J	4.4	0.52	ug/kg	SW846 8260B
C45621-9	**VP-2(2)**					
Tetrachloroethylene		6.7	5.6	0.67	ug/kg	SW846 8260B
C45621-10	**VP-1(1)**					
Tetrachloroethylene		13.0	5.2	0.63	ug/kg	SW846 8260B
C45621-11	**VP-1(2)**					
Tetrachloroethylene		2.4 J	5.6	0.67	ug/kg	SW846 8260B
C45621-12	**TRIP BLANK**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B-9(2)		
Lab Sample ID:	C45621-2	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	91.0
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60538.D	1	05/10/16	JT	n/a	n/a	VM1819
Run #2							

	Initial Weight
Run #1	11.4 g
Run #2	

VOA Special Reporting List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	2.4	0.24	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.4	0.53	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.24	ug/kg	
127-18-4	Tetrachloroethylene	1.1	2.4	0.29	ug/kg	J
79-01-6	Trichloroethylene	ND	2.4	0.24	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.48	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		80-136%
2037-26-5	Toluene-D8	93%		88-113%
460-00-4	4-Bromofluorobenzene	97%		79-115%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-9(2)		
Lab Sample ID:	C45621-2	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
		Percent Solids:	91.0
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	9		%	1	05/16/16 10:36	EA	SM2540MOD G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-8(1)		
Lab Sample ID:	C45621-3	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	95.0
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N55898.D	1	05/11/16	JC	n/a	n/a	VN1488
Run #2							

	Initial Weight
Run #1	6.00 g
Run #2	

VOA Special Reporting List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	4.4	0.44	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.4	0.96	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.4	0.44	ug/kg	
127-18-4	Tetrachloroethylene	22.5	4.4	0.53	ug/kg	
79-01-6	Trichloroethylene	ND	4.4	0.44	ug/kg	
75-01-4	Vinyl chloride	ND	4.4	0.88	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-136%
2037-26-5	Toluene-D8	99%		88-113%
460-00-4	4-Bromofluorobenzene	97%		79-115%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8(1)		
Lab Sample ID:	C45621-3	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
		Percent Solids:	95.0
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	5		%	1	05/16/16 10:36	EA	SM2540MOD G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-8(2)		
Lab Sample ID:	C45621-4	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	90.6
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M60540.D	1	05/10/16	JT	n/a	n/a	VM1819
Run #2							

	Initial Weight
Run #1	5.44 g
Run #2	

VOA Special Reporting List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	5.1	0.51	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.1	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	0.51	ug/kg	
127-18-4	Tetrachloroethylene	16.7	5.1	0.61	ug/kg	
79-01-6	Trichloroethylene	ND	5.1	0.51	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		80-136%
2037-26-5	Toluene-D8	94%		88-113%
460-00-4	4-Bromofluorobenzene	94%		79-115%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8(2)		
Lab Sample ID:	C45621-4	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
		Percent Solids:	90.6
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	9.4		%	1	05/16/16 10:36	EA	SM2540MOD G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-8(3)		
Lab Sample ID:	C45621-5	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	90.0
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N55904.D	1	05/11/16	JC	n/a	n/a	VN1488
Run #2							

	Initial Weight
Run #1	5.73 g
Run #2	

VOA Special Reporting List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	4.8	0.48	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.8	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	0.48	ug/kg	
127-18-4	Tetrachloroethylene	2.4	4.8	0.58	ug/kg	J
79-01-6	Trichloroethylene	ND	4.8	0.48	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	0.97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-136%
2037-26-5	Toluene-D8	99%		88-113%
460-00-4	4-Bromofluorobenzene	97%		79-115%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8(3)		
Lab Sample ID:	C45621-5	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
		Percent Solids:	90.0
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	10		%	1	05/16/16 10:36	EA	SM2540MOD G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-7(2)		
Lab Sample ID:	C45621-7	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	92.3
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N55900.D	1	05/11/16	JC	n/a	n/a	VN1488
Run #2							

	Initial Weight
Run #1	5.42 g
Run #2	

VOA Special Reporting List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
127-18-4	Tetrachloroethylene	12.9	5.0	0.60	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-136%
2037-26-5	Toluene-D8	99%		88-113%
460-00-4	4-Bromofluorobenzene	96%		79-115%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-7(2)		
Lab Sample ID:	C45621-7	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
		Percent Solids:	92.3
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	7.7		%	1	05/16/16 10:36	EA	SM2540MOD G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	VP-2(1)		
Lab Sample ID:	C45621-8	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	96.1
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N55901.D	1	05/11/16	JC	n/a	n/a	VN1488
Run #2							

	Initial Weight
Run #1	5.95 g
Run #2	

VOA Special Reporting List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	4.4	0.44	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.4	0.96	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.4	0.44	ug/kg	
127-18-4	Tetrachloroethylene	2.9	4.4	0.52	ug/kg	J
79-01-6	Trichloroethylene	ND	4.4	0.44	ug/kg	
75-01-4	Vinyl chloride	ND	4.4	0.87	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-136%
2037-26-5	Toluene-D8	99%		88-113%
460-00-4	4-Bromofluorobenzene	98%		79-115%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VP-2(1)		
Lab Sample ID:	C45621-8	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
		Percent Solids:	96.1
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	3.9		%	1	05/16/16 10:36	EA	SM2540MOD G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	VP-2(2)		
Lab Sample ID:	C45621-9	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	91.1
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N55902.D	1	05/11/16	JC	n/a	n/a	VN1488
Run #2							

	Initial Weight
Run #1	4.94 g
Run #2	

VOA Special Reporting List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	5.6	0.56	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	0.56	ug/kg	
127-18-4	Tetrachloroethylene	6.7	5.6	0.67	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	0.56	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-136%
2037-26-5	Toluene-D8	99%		88-113%
460-00-4	4-Bromofluorobenzene	98%		79-115%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VP-2(2)		
Lab Sample ID:	C45621-9	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
		Percent Solids:	91.1
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	8.9		%	1	05/16/16 10:36	EA	SM2540MOD G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	VP-1(1)		
Lab Sample ID:	C45621-10	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	93.6
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N55903.D	1	05/11/16	JC	n/a	n/a	VN1488
Run #2							

	Initial Weight
Run #1	5.09 g
Run #2	

VOA Special Reporting List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	5.2	0.52	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	0.52	ug/kg	
127-18-4	Tetrachloroethylene	13.0	5.2	0.63	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	0.52	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-136%
2037-26-5	Toluene-D8	99%		88-113%
460-00-4	4-Bromofluorobenzene	96%		79-115%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VP-1(1)		
Lab Sample ID:	C45621-10	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
		Percent Solids:	93.6
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	6.4		%	1	05/16/16 10:36	EA	SM2540MOD G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	VP-1(2)		
Lab Sample ID:	C45621-11	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	91.9
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L48760.D	1	05/03/16	JT	n/a	n/a	VL1457
Run #2							

	Initial Weight
Run #1	4.89 g
Run #2	

VOA Special Reporting List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	5.6	0.56	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	0.56	ug/kg	
127-18-4	Tetrachloroethylene	2.4	5.6	0.67	ug/kg	J
79-01-6	Trichloroethylene	ND	5.6	0.56	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-136%
2037-26-5	Toluene-D8	96%		88-113%
460-00-4	4-Bromofluorobenzene	92%		79-115%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VP-1(2)		
Lab Sample ID:	C45621-11	**Date Sampled:**	04/27/16
Matrix:	SO - Soil	**Date Received:**	04/29/16
		Percent Solids:	91.9
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	8.1		%	1	05/16/16 10:36	EA	SM2540MOD G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: C45621-12
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Date Sampled: 04/27/16
Date Received: 04/29/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U34545.D	1	05/10/16	KZ	n/a	n/a	VU1415
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride [a]	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C45621-12	**Date Sampled:**	04/27/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/29/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	105%		88-112%
460-00-4	4-Bromofluorobenzene	94%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS ACCUTEST

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED EX Tracking # 8044 5141 7795 | Bottle Order Control #
SGS Accutest Quote # | SGS Accutest NC Job #: C C45621

Client / Reporting Information

Company Name: Apex Companies LLC
Address: 3015 SW 1st Ave. 97201
City: Portland State: OR Zip:
Project Contact: John Foxwell
Phone #: 503 924 4704 x 1915
Samplers's Name: Joel Mattecheck

Project Information

Project Name: Regency Centers, Cascade
Street: Evergreen Way WA.
City: Everette State:
Project #: Regen-010
EMAIL: JFoxwell@apexcos.com
Client Purchase Order #: - Regen-010

Requested Analysis

HVOCs (8535/8260)

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	HVOCs (8535/8260)	LAB USE ONLY
1	B-9(1)	4/27/16	0440	Jm	SO	4							1		X	
2	B-9(2)	4/27/16	0500	Jm	SO	4							1		X	
3	B-8(1)	4/27/16	0320	Jm	SO	4							1		X	
4	B-8(2)	4/27/16	0330	Jm	SO	4							1		X	
5	B-8(3)	4/27/16	0410	Jm	SO	4							1		X	
6	B-7(1)	4/27/16	0250	Jm	SO	4							1		X	
7	B-7(2)	4/27/16	0300	Jm	SO	4							1		X	
8	VP-2(1)	4/27/16	0220	Jm	SO	4							1		X	
9	VP-2(2)	4/27/16	0240	Jm	SO	4							1		X	
10	VP-1(1)	4/27/16	0200	Jm	SO	4							1		X	

Turnaround Time (Business days)

Approved By / Date:

- [X] 10 Day (Standard)
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID:
- Provide EDF Logcode:

Comments / Remarks

Please email results to:
JFoxwell@apexcos.com
AFines@apexcos.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Joel Mattecheck	4/28, 1200	Fedex	Fedex	4/29/30 19:15	Ali Zeighami
2						
3						
4						
5						

Custody Seal #: Intact
Appropriate Bottle / Pres. Y / N | Headspace Y / N | On Ice Y / N | Cooler Temp: 5.7/5.9 °C
Labels match Coc? Y / N | Separate Receiving Check List used: Y / N

5.1 5

CHAIN OF CUSTODY

SGS ACCUTEST

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest NC Job #: C45621

Client / Reporting Information

Company Name: Apex Companies LLC
Address: 3015 SW 1st. Ave
City: Portland State: OR. Zip: 97201
Project Contact: John Foxwell
Phone #: 503-924-4704 x 1915
Samplers's Name: Joel Mattecheck

Project Information

Project Name: Regency Centers, Cascade
Street: Evergreen WAY, WA.
City: Evere # State:
Project #: Regen-010
EMAIL: JFoxwell@apexcos.com
Client Purchase Order #: - Regen-010

Requested Analysis

HVOCs (8335/8260) Dispose, Do not analyze

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MECH	ENCORE	LAB USE ONLY
11	Vp-1(2)	4/27/16	0205	SM	SO	4							1	X	
	Temp Blank	-	-	-	W	-							-	-	X
12	TRIP Blank	-	-	-	W	2							2	X	
	TRIP Blank	-	-	-	W	2							2	-	X

Turnaround Time (Business days)

Approved By / Date:

- [X] 10 Day (Standard)
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commercial "B+" - Results, QC, and chromatograms
- [ ] FULL T - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID:
- Provide EDF Logcode:

Comments / Remarks

Please email results to:
JFoxwell@apexcos.com
AFines@apexcos.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Joel Mattecheck	4/28, 1200	Fedex	Fedex	4/29/16 10:15	Ali Zaighami
2						
3						
4						
5						

Custody Seal #:
Appropriate Bottle / Pres. Y / N
Headspace Y / N
On Ice Y / N
Cooler Temp.
Labels match Coc? Y / N
Separate Receiving Check List used: Y / N

Revised

CHAIN OF CUSTODY

SGS ACCUTEST

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

1 of 2

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job #: C45621

Client / Reporting Information

- Company Name: Apex Companies LLC
- Address: 3015 SW 1st Ave. 97201
- City: Portland State: OR Zip:
- Project Contact: John Foxwell
- Phone #: 503 924 4704 x 1915
- Samplers's Name: Joel Mattecheck

Project Information

- Project Name: Regency Centers, Cascade
- Street: Evergreen Way WA.
- City: Everette State:
- Project #: Regen-010
- EMAIL: JFoxwell@apexcos.com & afines@apexcos.com
- Client Purchase Order #: – Regen-010

Requested Analysis: HVOCs (5035/8260)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles	HVOCs (5035/8260)	Comments
	~~B-9 (1)~~	~~4/27/16~~	~~0440~~	~~JM~~	~~SO~~	~~4~~	1	X	HOLD AKJ 4.29.2016
	B-9 (2)	4/27/16	0500	JM	SO	4	1	X	
	B-8 (1)	4/27/16	0320	JM	SO	4	1	X	
	B-8 (2)	4/27/16	0330	JM	SO	4	1	X	
	B-8 (3)	4/27/16	0410	JM	SO	4	1	X	
	~~B-7 (1)~~	~~4/27/16~~	~~0250~~	~~JM~~	~~SO~~	~~4~~	1	X	HOLD AKJ 4.29.2016
	B-7 (2)	4/27/16	0300	JM	SO	4	1	X	
	VP-2 (1)	4/27/16	0220	JM	SO	4	1	X	
	VP-2 (2)	4/27/16	0240	JM	SO	4	1	X	
	VP-1 (1)	4/27/16	0200	JM	SO	4	1	X	

Matrix Codes: WW - Wastewater, GW - Ground Water, SW - Surface Water, SO - Soil, SL - Sludge, OI - Oil, LIQ - Non-Aqueous Liquid, AIR, DW - Drinking Water

LAB USE ONLY

Turnaround Time (Business days) — Approved By / Date:

- [X] 10 Day (Standard)
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commercial "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Contractor [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode

Comments / Remarks

Please email results to:
JFoxwell@apexcos.com
AFines@apexcos.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Joel Mattecheck	4/28, 1200	1	2		2
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

Appropriate Bottle / Pres. Y / N Headspace Y / N On Ice Y / N Cooler Temp
Labels match COC? Y / N Separate Receiving Check List used: Y / N

C45621: Chain of Custody
Page 3 of 5

2 of 2

SGS ACCUTEST

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

SGS Accutest Job #: C45621

Client / Reporting Information

Company Name: Apex Companies LLC
Address: 3015 SW 1st. Ave
City: Portland State: OR. Zip: 97201
Project Contact: John Foxwell
Phone #: 503-924-4704 x 1915
Samplers's Name: Joel Mattcheck

Project Information

Project Name: Regency Centers, Cascade
Street: Evergreen WAY, WA.
City: Everett
Project #: Regen - 010
EMAIL: JFoxwell@apexcos.com
Client Purchase Order #: Regen - 010

Requested Analysis: HVOCs (5035/8260)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles	HVOCs (5035/8260)	LAB USE ONLY
	VP-1 (2)	4/21/16	0205	JM	SO	4	1	X	

Turnaround Time (Business days)

[X] 10 Day (Standard)
[ ] 5 Day
[ ] 3 Day
[ ] 2 Day
[ ] 1 Day
[ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

[ ] Commercial "A" - Results only
[X] Commercial "B" - Results with QC Summaries
[ ] Commercial "B+" - Results, QC, and chromatograms
[ ] FULL1 - Level 4 data package
[ ] EDF for Geotracker [ ] EDD Format

Comments / Remarks

Please email results to:
JFoxwell@apexcos.com
AFines@apexcos.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received By
1 Joel Mattcheck	4/28, 1200	1

C45621: Chain of Custody
Page 4 of 5

SGS Accutest Sample Receipt Summary

Job Number: C45621 **Client:** APEX COMPANIES **Project:** REGENCY CENTERS, CASCADE

Date / Time Received: 4/29/2016 10:15:00 AM **Delivery Method:** FedEx **Airbill #'s:** 809451417795

Cooler Temps (Initial/Adjusted): #1: (5.7/5.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

GC/MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1457-MB	L48741.D	1	05/03/16	JT	n/a	n/a	VL1457

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	80-136%
2037-26-5	Toluene-D8	98%	88-113%
460-00-4	4-Bromofluorobenzene	98%	79-115%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/kg	

(a) The following compounds were not detected by library search: 1,3-Butadiene, Dicyclopentadiene, 4-Ethyltoluene, Propylene

Method Blank Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1415-MB	U34544.D	1	05/10/16	KZ	n/a	n/a	VU1415

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1415-MB	U34544.D	1	05/10/16	KZ	n/a	n/a	VU1415

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-12

CAS No.	Compound	Result	RL	MDL	Units	Q
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-123%
2037-26-5	Toluene-D8	103%	88-112%
460-00-4	4-Bromofluorobenzene	94%	79-114%

Method Blank Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-MB	M60532.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-2, C45621-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	115%	80-136%
2037-26-5	Toluene-D8	93%	88-113%
460-00-4	4-Bromofluorobenzene	100%	79-115%

Method Blank Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1488-MB	N55897.D	1	05/11/16	JC	n/a	n/a	VN1488

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-3, C45621-5, C45621-7, C45621-8, C45621-9, C45621-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-66-3	Chloroform	ND	5.0	0.50	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	0.60	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	0.50	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	80-136%
2037-26-5	Toluene-D8	100%	88-113%
460-00-4	4-Bromofluorobenzene	97%	79-115%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL1457-BS	L48738.D	1	05/03/16	JT	n/a	n/a	VL1457
VL1457-BSD	L48739.D	1	05/03/16	JT	n/a	n/a	VL1457

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	40	44.9	112	42.9	107	5	71-121/19
156-59-2	cis-1,2-Dichloroethylene	40	46.6	117	45.6	114	2	73-128/19
79-00-5	1,1,2-Trichloroethane	40	42.8	107	40.9	102	5	70-120/18
127-18-4	Tetrachloroethylene	40	39.4	99	35.5	89	10	68-120/20
79-01-6	Trichloroethylene	40	41.0	103	39.8	100	3	72-120/20
75-01-4	Vinyl chloride	40	43.9	110	43.5	109	1	61-131/24

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	116%	108%	80-136%
2037-26-5	Toluene-D8	99%	102%	88-113%
460-00-4	4-Bromofluorobenzene	100%	102%	79-115%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1415-BS	U34541.D	1	05/10/16	KZ	n/a	n/a	VU1415
VU1415-BSD	U34542.D	1	05/10/16	KZ	n/a	n/a	VU1415

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	92.2	115	88.3	110	4	55-147/17
71-43-2	Benzene	20	21.9	110	21.8	109	0	76-120/10
75-27-4	Bromodichloromethane	20	21.4	107	21.2	106	1	75-121/10
75-25-2	Bromoform	20	17.7	89	17.3	87	2	62-127/10
108-90-7	Chlorobenzene	20	20.7	104	20.8	104	0	79-119/10
75-00-3	Chloroethane	20	23.4	117* [a]	23.2	116* [a]	1	60-115/14
67-66-3	Chloroform	20	22.3	112	22.3	112	0	75-122/10
75-15-0	Carbon disulfide	20	22.2	111	21.9	110	1	51-130/13
56-23-5	Carbon tetrachloride	20	22.1	111	22.0	110	0	72-128/13
75-34-3	1,1-Dichloroethane	20	22.7	114	22.6	113	0	70-121/10
75-35-4	1,1-Dichloroethylene	20	22.8	114	22.8	114	0	62-125/13
107-06-2	1,2-Dichloroethane	20	22.0	110	21.5	108	2	74-122/10
78-87-5	1,2-Dichloropropane	20	22.2	111	22.0	110	1	75-123/10
124-48-1	Dibromochloromethane	20	21.5	108	21.4	107	0	76-124/10
156-59-2	cis-1,2-Dichloroethylene	20	23.2	116	23.1	116	0	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	23.0	115	22.7	114	1	76-131/10
156-60-5	trans-1,2-Dichloroethylene	20	20.9	105	21.1	106	1	67-116/11
540-59-0	1,2-Dichloroethene (total)	40	44.1	110	44.2	111	0	72-120/10
10061-02-6	trans-1,3-Dichloropropene	20	21.6	108	21.5	108	0	73-125/10
100-41-4	Ethylbenzene	20	21.4	107	21.5	108	0	78-123/10
591-78-6	2-Hexanone	80	91.8	115	88.6	111	4	71-145/12
108-10-1	4-Methyl-2-pentanone	80	90.7	113	86.6	108	5	70-142/11
74-83-9	Methyl bromide	20	22.3	112	22.1	111	1	65-124/13
74-87-3	Methyl chloride	20	30.0	150* [a]	27.6	138	8	47-143/20
75-09-2	Methylene chloride	20	22.0	110	21.9	110	0	65-124/15
78-93-3	Methyl ethyl ketone	80	91.1	114	87.7	110	4	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	21.7	109	21.3	107	2	73-120/10
100-42-5	Styrene	20	21.5	108	21.7	109	1	73-126/10
71-55-6	1,1,1-Trichloroethane	20	22.6	113	22.5	113	0	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	23.4	117	22.4	112	4	78-127/10
79-00-5	1,1,2-Trichloroethane	20	22.1	111	21.8	109	1	79-122/10
127-18-4	Tetrachloroethylene	20	20.1	101	20.5	103	2	72-124/13
108-88-3	Toluene	20	21.0	105	21.3	107	1	78-121/10
79-01-6	Trichloroethylene	20	21.6	108	21.6	108	0	75-119/10
75-69-4	Trichlorofluoromethane	20	22.7	114	22.5	113	1	68-130/19
75-01-4	Vinyl chloride	20	27.4	137	26.8	134	2	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1415-BS	U34541.D	1	05/10/16	KZ	n/a	n/a	VU1415
VU1415-BSD	U34542.D	1	05/10/16	KZ	n/a	n/a	VU1415

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-05-4	Vinyl Acetate	20	22.7	114	22.2	111	2	66-158/11
1330-20-7	Xylene (total)	60	62.6	104	63.1	105	1	78-122/10
	m,p-Xylene	40	41.9	105	42.4	106	1	78-123/10
95-47-6	o-Xylene	20	20.7	104	20.7	104	0	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	105%	107%	80-123%
2037-26-5	Toluene-D8	100%	101%	88-112%
460-00-4	4-Bromofluorobenzene	99%	101%	79-114%

(a) Outside laboratory control limits (high bias); not detected in associated samples.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-BS	M60529.D	1	05/10/16	JT	n/a	n/a	VM1819
VM1819-BSD	M60530.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-2, C45621-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	40	38.0	95	39.0	98	3	71-121/19
156-59-2	cis-1,2-Dichloroethylene	40	41.5	104	42.9	107	3	73-128/19
79-00-5	1,1,2-Trichloroethane	40	35.9	90	38.4	96	7	70-120/18
127-18-4	Tetrachloroethylene	40	35.5	89	35.8	90	1	68-120/20
79-01-6	Trichloroethylene	40	37.2	93	38.5	96	3	72-120/20
75-01-4	Vinyl chloride	40	41.7	104	42.8	107	3	61-131/24

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	103%	101%	80-136%
2037-26-5	Toluene-D8	96%	93%	88-113%
460-00-4	4-Bromofluorobenzene	101%	101%	79-115%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1488-BS	N55894.D	1	05/11/16	JC	n/a	n/a	VN1488
VN1488-BSD	N55895.D	1	05/11/16	JC	n/a	n/a	VN1488

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-3, C45621-5, C45621-7, C45621-8, C45621-9, C45621-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	40	35.8	90	36.7	92	2	71-121/19
156-59-2	cis-1,2-Dichloroethylene	40	38.1	95	39.1	98	3	73-128/19
79-00-5	1,1,2-Trichloroethane	40	36.0	90	36.3	91	1	70-120/18
127-18-4	Tetrachloroethylene	40	35.9	90	37.5	94	4	68-120/20
79-01-6	Trichloroethylene	40	36.9	92	37.9	95	3	72-120/20
75-01-4	Vinyl chloride	40	42.8	107	38.8	97	10	61-131/24

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	103%	102%	80-136%
2037-26-5	Toluene-D8	98%	97%	88-113%
460-00-4	4-Bromofluorobenzene	102%	101%	79-115%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1415-LCS	U34543.D	1	05/10/16	KZ	n/a	n/a	VU1415

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-12

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	80-123%
2037-26-5	Toluene-D8	103%	88-112%
460-00-4	4-Bromofluorobenzene	96%	79-114%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1819-LCS	M60531.D	1	05/10/16	JT	n/a	n/a	VM1819

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-2, C45621-4

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	80-136%
2037-26-5	Toluene-D8	96%	88-113%
460-00-4	4-Bromofluorobenzene	98%	79-115%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45668-3MS	U34583.D	10	05/11/16	KZ	n/a	n/a	VU1415
C45668-3MSD	U34584.D	10	05/11/16	KZ	n/a	n/a	VU1415
C45668-3	U34548.D	10	05/10/16	KZ	n/a	n/a	VU1415

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-12

CAS No.	Compound	C45668-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		800	879	110	800	918	115	4	55-147/17
71-43-2	Benzene	ND		200	214	107	200	212	106	1	76-120/10
75-27-4	Bromodichloromethane	ND		200	200	100	200	201	101	0	75-121/10
75-25-2	Bromoform	ND		200	141	71	200	150	75	6	62-127/10
108-90-7	Chlorobenzene	ND		200	201	101	200	200	100	0	79-119/10
75-00-3	Chloroethane	ND		200	228	114	200	226	113	1	60-115/14
67-66-3	Chloroform	ND		200	218	109	200	217	109	0	75-122/10
75-15-0	Carbon disulfide	ND		200	179	90	200	178	89	1	51-130/13
56-23-5	Carbon tetrachloride	ND		200	207	104	200	202	101	2	72-128/13
75-34-3	1,1-Dichloroethane	ND		200	222	111	200	220	110	1	70-121/10
75-35-4	1,1-Dichloroethylene	16.7		200	222	103	200	225	104	1	62-125/13
107-06-2	1,2-Dichloroethane	ND		200	214	107	200	212	106	1	74-122/10
78-87-5	1,2-Dichloropropane	ND		200	215	108	200	212	106	1	75-123/10
124-48-1	Dibromochloromethane	ND		200	191	96	200	194	97	2	76-124/10
156-59-2	cis-1,2-Dichloroethylene	254		200	492	119	200	500	123	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		200	212	106	200	211	106	0	76-131/10
156-60-5	trans-1,2-Dichloroethylene	ND		200	198	99	200	198	99	0	67-116/11
540-59-0	1,2-Dichloroethene (total)	254		400	690	109	400	698	111	1	72-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		200	204	102	200	201	101	1	73-125/10
100-41-4	Ethylbenzene	ND		200	208	104	200	205	103	1	78-123/10
591-78-6	2-Hexanone	ND		800	908	114	800	901	113	1	71-145/12
108-10-1	4-Methyl-2-pentanone	ND		800	865	108	800	862	108	0	70-142/11
74-83-9	Methyl bromide	ND		200	213	107	200	212	106	0	65-124/13
74-87-3	Methyl chloride	ND		200	299	150* [a]	200	295	148* [a]	1	47-143/20
75-09-2	Methylene chloride	ND		200	217	109	200	219	110	1	65-124/15
78-93-3	Methyl ethyl ketone	ND		800	885	111	800	896	112	1	66-145/12
1634-04-4	Methyl Tert Butyl Ether	ND		200	201	101	200	205	103	2	73-120/10
100-42-5	Styrene	ND		200	213	107	200	210	105	1	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		200	214	107	200	213	107	0	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	220	110	200	223	112	1	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		200	221	111	200	218	109	1	79-122/10
127-18-4	Tetrachloroethylene	120		200	323	102	200	323	102	0	72-124/13
108-88-3	Toluene	ND		200	202	101	200	204	102	1	78-121/10
79-01-6	Trichloroethylene	388		200	627	120* [a]	200	636	124* [a]	1	75-119/10
75-69-4	Trichlorofluoromethane	ND		200	221	111	200	217	109	2	68-130/19
75-01-4	Vinyl chloride	ND		200	268	134	200	253	127	6	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45621
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45668-3MS	U34583.D	10	05/11/16	KZ	n/a	n/a	VU1415
C45668-3MSD	U34584.D	10	05/11/16	KZ	n/a	n/a	VU1415
C45668-3	U34548.D	10	05/10/16	KZ	n/a	n/a	VU1415

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45621-12

CAS No.	Compound	C45668-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-05-4	Vinyl Acetate	ND		200	214	107	200	216	108	1	66-158/11
1330-20-7	Xylene (total)	ND		600	614	102	600	605	101	1	78-122/10
	m,p-Xylene	ND		400	412	103	400	405	101	2	78-123/10
95-47-6	o-Xylene	ND		200	203	102	200	200	100	1	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C45668-3	Limits
1868-53-7	Dibromofluoromethane	107%	106%	105%	80-123%
2037-26-5	Toluene-D8	101%	100%	103%	88-112%
460-00-4	4-Bromofluorobenzene	102%	100%	94%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

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Automated Report

Technical Report for

Apex Companies

Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

REGEN-043

SGS Accutest Job Number: C45968

Sampling Date: 05/24/16

Report to:

Apex Companies, LLC
3015 SW First Avenue
Portland, OR 97201
AFines@apexcos.com; jfoxwell@apexcos.com

ATTN: Ashleigh Fines

Total number of pages in report: **43**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

Sections: 1 2 3 4 5 6

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Sample Summary

Apex Companies

Job No: C45968

Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA
Project No: REGEN-043

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C45968-1	05/24/16	16:00	JM	05/26/16	AQ	Ground Water	MW-4
C45968-2	05/24/16	15:25	JM	05/26/16	AQ	Ground Water	MW-3
C45968-3	05/24/16	14:52	JM	05/26/16	AQ	Ground Water	MW-1
C45968-4	05/24/16	14:52	JM	05/26/16	AQ	Ground Water	MW-2
C45968-5	05/24/16	14:52	JM	05/26/16	AQ	Ground Water	MW-2 DUP

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Apex Companies	**Job No**	C45968
Site:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA	**Report Date**	6/13/2016 5:45:20 PM

5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 05/24/2016 and were received at Accutest on 05/26/2016 properly preserved, at 6.1 Deg. C and intact. These Samples received an Accutest job number of C45968. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN1504

- Sample(s) C45984-1MS, C45984-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Benzene are outside laboratory control limits. Probable cause due to matrix interference.

Matrix: AQ **Batch ID:** VR1567

- C45968-2: Confirmation run past hold.

Matrix: AQ **Batch ID:** VU1442

- Sample(s) C45935-19MS, C45935-19MSD were used as the QC samples indicated.
- Blank Spike Duplicate Recovery(s) for Dibromochloromethane, m,p-Xylene are outside laboratory control limits; but within marginal exceedance criteria.
- RPD(s) for BSD for Carbon disulfide, Ethylbenzene, Toluene, m,p-Xylene are outside laboratory control limits.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for m,p-Xylene, o-Xylene, Trichloroethylene, Xylene (total), Styrene are outside laboratory control limits.
- RPD(s) for MSD for Styrene are outside laboratory control limits for sample C45935-19MSD.
- C45968-2: Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria. Results may be biased high; data confirmed by reanalyses outside of hold. AZ:E7

Matrix: AQ **Batch ID:** VW2313

- Sample(s) C45936-4MS, C45936-4MSD were used as the QC samples indicated.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C45968
Account: Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA
Collected: 05/24/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C45968-1	**MW-4**					
No hits reported in this sample.						
C45968-2	**MW-3**					
Toluene [a]		0.20 J	1.0	0.20	ug/l	SW846 8260B
C45968-3	**MW-1**					
No hits reported in this sample.						
C45968-4	**MW-2**					
No hits reported in this sample.						
C45968-5	**MW-2 DUP**					
No hits reported in this sample.						

(a) Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria. Results may be biased high; data confirmed by reanalyses outside of hold. AZ:E7 AZ:E4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-4
Lab Sample ID: C45968-1 **Date Sampled:** 05/24/16
Matrix: AQ - Ground Water **Date Received:** 05/26/16
Method: SW846 8260B **Percent Solids:** n/a
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61235.D	1	06/07/16	CV	n/a	n/a	VW2313
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	C45968-1	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/26/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-123%
2037-26-5	Toluene-D8	100%		88-112%
460-00-4	4-Bromofluorobenzene	103%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	C45968-2	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/26/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U35101.D	1	06/07/16	MV	n/a	n/a	VU1442
Run #2 [b]	R40734.D	1	06/09/16	MV	n/a	n/a	VR1567

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane [c]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	C45968-2	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/26/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene [d]	0.20	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene [c]	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%	96%	80-123%
2037-26-5	Toluene-D8	100%	104%	88-112%
460-00-4	4-Bromofluorobenzene	85%	92%	79-114%

(a) Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria. Results may be biased high; data confirmed by reanalyses outside of hold. AZ:E7
(b) Confirmation run past hold.
(c) AZ:L2
(d) AZ:E4

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1
Lab Sample ID: C45968-3 **Date Sampled:** 05/24/16
Matrix: AQ - Ground Water **Date Received:** 05/26/16
Method: SW846 8260B **Percent Solids:** n/a
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U35102.D	1	06/07/16	MV	n/a	n/a	VU1442
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	C45968-3	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/26/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene [a]	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	85%		79-114%

(a) AZ:L2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	C45968-4	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/26/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U35103.D	1	06/07/16	MV	n/a	n/a	VU1442
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	C45968-4	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/26/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene [a]	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		80-123%
2037-26-5	Toluene-D8	101%		88-112%
460-00-4	4-Bromofluorobenzene	87%		79-114%

(a) AZ:L2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2 DUP
Lab Sample ID: C45968-5
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Date Sampled: 05/24/16
Date Received: 05/26/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N56195.D	1	06/07/16	MV	n/a	n/a	VN1504
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2 DUP		
Lab Sample ID:	C45968-5	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/26/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA		

VOA Special list

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	100%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS ACCUTEST

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 7832 0783 1739 | Bottle Order Control #
SGS Accutest Quote # | SGS Accutest NC Job #: C45963

Client / Reporting Information

Company Name: Apex Companies
Address: 3015 SW 1st Ave
City: Portland State: OR Zip: 97201
Project Contact: Ashleigh Fines
Phone #: 503 924 4704
Samplers's Name: Joel Mattecheck

Project Information

Project Name: Regency Cascade
Street: —
City: Everett State: WA.
Project #: Regen - 043
EMAIL: AFines@apexcos.com
Client Purchase Order #: Regen - 043

Requested Analysis

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	Na2SO4	MEOH	EnCore	4 VOCs (8260)	LAB USE ONLY
1	MW-4	5/24	1600	JM	GW	3	X								X	
2	MW-3	5/24	1525	JM	GW	3	X								X	
3	MW-1	5/24	1452	JM	GW	3	X								X	
4	MW-2	5/24	1452	JM	GW	3	X								X	
5	MW-2 Dup	5/24	1452	JM	GW	3	X								X	

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

Turnaround Time (Business days)

Approved By/ Date:

- [X] 10 Day (Standard)
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID:
- Provide EDF Logcode:

Comments / Remarks

Please email Results to:
AFines@apexcos.com
JFoxwell@apexcos.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Joel Mattecheck	5/25, 1200	Fedex	Fedex	5/26/16 09:40	Ali Zeighami
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
5	Relinquished by:	Date Time:	Received By:	Custody Seal # Intact	Appropriate Bottle / Pres. Y/N	Headspace Y/N

Labels match Coc? Y / N | Separate Receiving Check List used: Y / N | On Ice: Y/N | Cooler Temp. 5.1 | 6.1 °C

FSM004_0_Accutest_California-COC - SGS 1 2016-01-20

C45968: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: C45968 **Client:** APEX **Project:** REGENCY CASCADE

Date / Time Received: 5/26/2016 9:40:00 AM **Delivery Method:** FedEx **Airbill #'s:** 783207831739

Cooler Temps (Initial/Adjusted): #1: (5.1/6.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR3;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

C45968: Chain of Custody
Page 2 of 2

GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2313-MB	W61221.D	1	06/07/16	CV	n/a	n/a	VW2313

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2313-MB	W61221.D	1	06/07/16	CV	n/a	n/a	VW2313

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	80-123%
2037-26-5	Toluene-D8	101%	88-112%
460-00-4	4-Bromofluorobenzene	101%	79-114%

Method Blank Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1442-MB	U35087.D	1	06/07/16	MV	n/a	n/a	VU1442

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2, C45968-3, C45968-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1442-MB	U35087.D	1	06/07/16	MV	n/a	n/a	VU1442

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2, C45968-3, C45968-4

CAS No.	Compound	Result	RL	MDL	Units	Q
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	115%	80-123%
2037-26-5	Toluene-D8	101%	88-112%
460-00-4	4-Bromofluorobenzene	87%	79-114%

Method Blank Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1504-MB	N56194.D	1	06/07/16	MV	n/a	n/a	VN1504

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.40	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1504-MB	N56194.D	1	06/07/16	MV	n/a	n/a	VN1504

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-5

CAS No.	Compound	Result	RL	MDL	Units	Q
108-05-4	Vinyl Acetate	ND	5.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	80-123%
2037-26-5	Toluene-D8	101%	88-112%
460-00-4	4-Bromofluorobenzene	97%	79-114%

Method Blank Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1567-MB	R40729.D	1	06/09/16	MV	n/a	n/a	VR1567

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2

CAS No.	Compound	Result	RL	MDL	Units	Q

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	80-123%
2037-26-5	Toluene-D8	101%	88-112%
460-00-4	4-Bromofluorobenzene	92%	79-114%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1442-BS	U35085.D	1	06/07/16	MV	n/a	n/a	VU1442
VU1442-BSD	U35083.D	1	06/07/16	MV	n/a	n/a	VU1442

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2, C45968-3, C45968-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	71.8	90	71.9	90	0	55-147/17
71-43-2	Benzene	20	19.1	96	17.6	88	8	76-120/10
75-27-4	Bromodichloromethane	20	19.0	95	17.6	88	8	75-121/10
75-25-2	Bromoform	20	17.6	88	16.1	81	9	62-127/10
108-90-7	Chlorobenzene	20	19.2	96	17.4	87	10	79-119/10
75-00-3	Chloroethane	20	17.5	88	19.9	100	13	60-115/14
67-66-3	Chloroform	20	19.3	97	18.0	90	7	75-122/10
75-15-0	Carbon disulfide	20	11.9	60	15.9	80	29* [a]	51-130/13
56-23-5	Carbon tetrachloride	20	19.8	99	17.7	89	11	72-128/13
75-34-3	1,1-Dichloroethane	20	19.0	95	18.0	90	5	70-121/10
75-35-4	1,1-Dichloroethylene	20	17.1	86	17.1	86	0	62-125/13
107-06-2	1,2-Dichloroethane	20	19.4	97	17.9	90	8	74-122/10
78-87-5	1,2-Dichloropropane	20	19.6	98	18.2	91	7	75-123/10
124-48-1	Dibromochloromethane	20	16.1	81	14.9	75* [b]	8	76-124/10
156-59-2	cis-1,2-Dichloroethylene	20	20.0	100	18.6	93	7	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	20.8	104	19.0	95	9	76-131/10
156-60-5	trans-1,2-Dichloroethylene	20	17.3	87	16.5	83	5	67-116/11
540-59-0	1,2-Dichloroethene (total)	40	37.4	94	35.1	88	6	72-120/10
10061-02-6	trans-1,3-Dichloropropene	20	16.5	83	14.9	75	10	73-125/10
100-41-4	Ethylbenzene	20	20.0	100	18.0	90	11* [a]	78-123/10
591-78-6	2-Hexanone	80	76.7	96	76.9	96	0	71-145/12
108-10-1	4-Methyl-2-pentanone	80	64.7	81	66.0	83	2	70-142/11
74-83-9	Methyl bromide	20	15.8	79	17.9	90	12	65-124/13
74-87-3	Methyl chloride	20	16.8	84	19.6	98	15	47-143/20
75-09-2	Methylene chloride	20	17.5	88	16.6	83	5	65-124/15
78-93-3	Methyl ethyl ketone	80	74.2	93	74.4	93	0	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	17.8	89	16.7	84	6	73-120/10
100-42-5	Styrene	20	18.6	93	17.0	85	9	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.2	101	18.3	92	10	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	20.7	104	19.4	97	6	78-127/10
79-00-5	1,1,2-Trichloroethane	20	19.6	98	18.0	90	9	79-122/10
127-18-4	Tetrachloroethylene	20	18.6	93	16.7	84	11	72-124/13
108-88-3	Toluene	20	19.2	96	17.2	86	11* [a]	78-121/10
79-01-6	Trichloroethylene	20	19.2	96	17.4	87	10	75-119/10
75-69-4	Trichlorofluoromethane	20	18.3	92	20.1	101	9	68-130/19
75-01-4	Vinyl chloride	20	19.0	95	20.4	102	7	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1442-BS	U35085.D	1	06/07/16	MV	n/a	n/a	VU1442
VU1442-BSD	U35083.D	1	06/07/16	MV	n/a	n/a	VU1442

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2, C45968-3, C45968-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-05-4	Vinyl Acetate	20	18.9	95	18.6	93	2	66-158/11
1330-20-7	Xylene (total)	60	51.6	86	46.6	78	10	78-122/10
	m,p-Xylene	40	33.1	83	29.6	74* [b]	11* [a]	78-123/10
95-47-6	o-Xylene	20	18.6	93	17.0	85	9	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	103%	80-123%
2037-26-5	Toluene-D8	97%	96%	88-112%
460-00-4	4-Bromofluorobenzene	99%	98%	79-114%

(a) Outside laboratory control limits. AZ:R9
(b) Outside laboratory control limits; but within marginal exceedance criteria. AZ:L2

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2313-BS	W61218.D	1	06/07/16	CV	n/a	n/a	VW2313
VW2313-BSD	W61219.D	1	06/07/16	CV	n/a	n/a	VW2313

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	74.1	93	73.7	92	1	55-147/17
71-43-2	Benzene	20	19.5	98	19.5	98	0	76-120/10
75-27-4	Bromodichloromethane	20	19.0	95	18.9	95	1	75-121/10
75-25-2	Bromoform	20	17.3	87	17.0	85	2	62-127/10
108-90-7	Chlorobenzene	20	18.8	94	18.6	93	1	79-119/10
75-00-3	Chloroethane	20	18.9	95	18.2	91	4	60-115/14
67-66-3	Chloroform	20	20.4	102	19.9	100	2	75-122/10
75-15-0	Carbon disulfide	20	18.0	90	17.7	89	2	51-130/13
56-23-5	Carbon tetrachloride	20	21.0	105	20.7	104	1	72-128/13
75-34-3	1,1-Dichloroethane	20	20.4	102	20.2	101	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	20.6	103	20.2	101	2	62-125/13
107-06-2	1,2-Dichloroethane	20	21.2	106	20.9	105	1	74-122/10
78-87-5	1,2-Dichloropropane	20	19.1	96	19.1	96	0	75-123/10
124-48-1	Dibromochloromethane	20	17.8	89	17.6	88	1	76-124/10
156-59-2	cis-1,2-Dichloroethylene	20	20.6	103	20.4	102	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	19.6	98	19.6	98	0	76-131/10
156-60-5	trans-1,2-Dichloroethylene	20	19.0	95	18.9	95	1	67-116/11
540-59-0	1,2-Dichloroethene (total)	40	39.6	99	39.2	98	1	72-120/10
10061-02-6	trans-1,3-Dichloropropene	20	18.8	94	18.6	93	1	73-125/10
100-41-4	Ethylbenzene	20	19.7	99	19.4	97	2	78-123/10
591-78-6	2-Hexanone	80	78.8	99	78.7	98	0	71-145/12
108-10-1	4-Methyl-2-pentanone	80	77.2	97	77.4	97	0	70-142/11
74-83-9	Methyl bromide	20	17.7	89	17.2	86	3	65-124/13
74-87-3	Methyl chloride	20	19.7	99	19.4	97	2	47-143/20
75-09-2	Methylene chloride	20	19.8	99	19.3	97	3	65-124/15
78-93-3	Methyl ethyl ketone	80	74.0	93	74.3	93	0	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	18.2	91	17.7	89	3	73-120/10
100-42-5	Styrene	20	18.3	92	18.1	91	1	73-126/10
71-55-6	1,1,1-Trichloroethane	20	21.6	108	21.3	107	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	18.6	93	19.0	95	2	78-127/10
79-00-5	1,1,2-Trichloroethane	20	18.9	95	18.9	95	0	79-122/10
127-18-4	Tetrachloroethylene	20	19.3	97	19.3	97	0	72-124/13
108-88-3	Toluene	20	19.4	97	19.3	97	1	78-121/10
79-01-6	Trichloroethylene	20	20.0	100	19.9	100	1	75-119/10
75-69-4	Trichlorofluoromethane	20	19.6	98	17.1	86	14	68-130/19
75-01-4	Vinyl chloride	20	19.9	100	19.0	95	5	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2313-BS	W61218.D	1	06/07/16	CV	n/a	n/a	VW2313
VW2313-BSD	W61219.D	1	06/07/16	CV	n/a	n/a	VW2313

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-05-4	Vinyl Acetate	20	19.5	98	19.1	96	2	66-158/11
1330-20-7	Xylene (total)	60	56.7	95	55.8	93	2	78-122/10
	m,p-Xylene	40	38.2	96	37.6	94	2	78-123/10
95-47-6	o-Xylene	20	18.5	93	18.2	91	2	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	105%	100%	80-123%
2037-26-5	Toluene-D8	101%	101%	88-112%
460-00-4	4-Bromofluorobenzene	102%	100%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1504-BS	N56191.D	1	06/07/16	MV	n/a	n/a	VN1504
VN1504-BSD	N56192.D	1	06/07/16	MV	n/a	n/a	VN1504

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	89.1	111	90.3	113	1	55-147/17
71-43-2	Benzene	20	19.5	98	20.3	102	4	76-120/10
75-27-4	Bromodichloromethane	20	19.8	99	20.5	103	3	75-121/10
75-25-2	Bromoform	20	17.4	87	18.0	90	3	62-127/10
108-90-7	Chlorobenzene	20	19.4	97	20.1	101	4	79-119/10
75-00-3	Chloroethane	20	19.5	98	20.4	102	5	60-115/14
67-66-3	Chloroform	20	19.4	97	20.2	101	4	75-122/10
75-15-0	Carbon disulfide	20	18.7	94	20.2	101	8	51-130/13
56-23-5	Carbon tetrachloride	20	20.5	103	21.2	106	3	72-128/13
75-34-3	1,1-Dichloroethane	20	20.0	100	20.8	104	4	70-121/10
75-35-4	1,1-Dichloroethylene	20	19.3	97	20.8	104	7	62-125/13
107-06-2	1,2-Dichloroethane	20	19.6	98	20.1	101	3	74-122/10
78-87-5	1,2-Dichloropropane	20	20.4	102	21.1	106	3	75-123/10
124-48-1	Dibromochloromethane	20	20.8	104	21.5	108	3	76-124/10
156-59-2	cis-1,2-Dichloroethylene	20	20.6	103	21.3	107	3	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.3	107	21.9	110	3	76-131/10
156-60-5	trans-1,2-Dichloroethylene	20	18.2	91	18.9	95	4	67-116/11
540-59-0	1,2-Dichloroethene (total)	40	38.8	97	40.2	101	4	72-120/10
10061-02-6	trans-1,3-Dichloropropene	20	20.3	102	21.2	106	4	73-125/10
100-41-4	Ethylbenzene	20	20.0	100	20.7	104	3	78-123/10
591-78-6	2-Hexanone	80	95.5	119	97.4	122	2	71-145/12
108-10-1	4-Methyl-2-pentanone	80	91.4	114	92.2	115	1	70-142/11
74-83-9	Methyl bromide	20	17.8	89	18.8	94	5	65-124/13
74-87-3	Methyl chloride	20	19.3	97	19.8	99	3	47-143/20
75-09-2	Methylene chloride	20	19.8	99	21.4	107	8	65-124/15
78-93-3	Methyl ethyl ketone	80	91.7	115	91.5	114	0	66-145/12
1634-04-4	Methyl Tert Butyl Ether	20	17.8	89	18.4	92	3	73-120/10
100-42-5	Styrene	20	21.0	105	22.0	110	5	73-126/10
71-55-6	1,1,1-Trichloroethane	20	19.4	97	21.0	105	8	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	20.8	104	20.9	105	0	78-127/10
79-00-5	1,1,2-Trichloroethane	20	20.3	102	20.9	105	3	79-122/10
127-18-4	Tetrachloroethylene	20	19.5	98	20.4	102	5	72-124/13
108-88-3	Toluene	20	20.0	100	21.2	106	6	78-121/10
79-01-6	Trichloroethylene	20	19.7	99	20.5	103	4	75-119/10
75-69-4	Trichlorofluoromethane	20	20.3	102	21.0	105	3	68-130/19
75-01-4	Vinyl chloride	20	20.8	104	21.8	109	5	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1504-BS	N56191.D	1	06/07/16	MV	n/a	n/a	VN1504
VN1504-BSD	N56192.D	1	06/07/16	MV	n/a	n/a	VN1504

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-05-4	Vinyl Acetate	20	20.3	102	21.0	105	3	66-158/11
1330-20-7	Xylene (total)	60	59.6	99	62.0	103	4	78-122/10
	m,p-Xylene	40	40.0	100	41.5	104	4	78-123/10
95-47-6	o-Xylene	20	19.6	98	20.5	103	4	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	101%	80-123%
2037-26-5	Toluene-D8	102%	104%	88-112%
460-00-4	4-Bromofluorobenzene	99%	101%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VR1567-BS	R40725.D	1	06/09/16	MV	n/a	n/a	VR1567
VR1567-BSD	R40726.D	1	06/09/16	MV	n/a	n/a	VR1567

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	93%	89%	80-123%
2037-26-5	Toluene-D8	98%	99%	88-112%
460-00-4	4-Bromofluorobenzene	97%	99%	79-114%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU1442-LCS	U35084.D	1	06/07/16	MV	n/a	n/a	VU1442

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2, C45968-3, C45968-4

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-123%
2037-26-5	Toluene-D8	100%	88-112%
460-00-4	4-Bromofluorobenzene	92%	79-114%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2313-LCS	W61220.D	1	06/07/16	CV	n/a	n/a	VW2313

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-1

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	80-123%
2037-26-5	Toluene-D8	102%	88-112%
460-00-4	4-Bromofluorobenzene	101%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45935-19MS	U35104.D	1	06/07/16	MV	n/a	n/a	VU1442
C45935-19MSD	U35105.D	1	06/07/16	MV	n/a	n/a	VU1442
C45935-19	U35091.D	1	06/07/16	MV	n/a	n/a	VU1442

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2, C45968-3, C45968-4

CAS No.	Compound	C45935-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	4.4	J	80	86.2	102	80	91.3	109	6	55-147/17
71-43-2	Benzene	ND		20	22.3	112	20	22.9	115	3	76-120/10
75-27-4	Bromodichloromethane	ND		20	21.0	105	20	21.6	108	3	75-121/10
75-25-2	Bromoform	ND		20	17.2	86	20	17.6	88	2	62-127/10
108-90-7	Chlorobenzene	ND		20	21.5	108	20	22.2	111	3	79-119/10
75-00-3	Chloroethane	ND		20	21.5	108	20	21.7	109	1	60-115/14
67-66-3	Chloroform	ND		20	21.8	109	20	22.7	114	4	75-122/10
75-15-0	Carbon disulfide	ND		20	18.3	92	20	18.5	93	1	51-130/13
56-23-5	Carbon tetrachloride	ND		20	24.4	122	20	24.7	124	1	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	22.1	111	20	23.1	116	4	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	20.7	104	20	22.1	111	7	62-125/13
107-06-2	1,2-Dichloroethane	ND		20	21.8	109	20	22.5	113	3	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	22.2	111	20	23.0	115	4	75-123/10
124-48-1	Dibromochloromethane	ND		20	16.7	84	20	17.4	87	4	76-124/10
156-59-2	cis-1,2-Dichloroethylene	120	E	20	140	100	20	149	145* [a]	6	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	21.4	107	20	22.2	111	4	76-131/10
156-60-5	trans-1,2-Dichloroethylene	18.6		20	38.0	97	20	40.3	109	6	67-116/11
540-59-0	1,2-Dichloroethene (total)	138	E	40	178	100	40	189	128* [b]	6	72-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	16.5	83	20	17.4	87	5	73-125/10
100-41-4	Ethylbenzene	ND		20	19.1	96	20	20.1	101	5	78-123/10
591-78-6	2-Hexanone	ND		80	89.3	112	80	92.7	116	4	71-145/12
108-10-1	4-Methyl-2-pentanone	ND		80	75.1	94	80	77.0	96	2	70-142/11
74-83-9	Methyl bromide	ND		20	17.9	90	20	17.9	90	0	65-124/13
74-87-3	Methyl chloride	ND		20	22.0	110	20	20.5	103	7	47-143/20
75-09-2	Methylene chloride	ND		20	19.9	100	20	20.8	104	4	65-124/15
78-93-3	Methyl ethyl ketone	ND		80	82.7	103	80	86.7	108	5	66-145/12
1634-04-4	Methyl Tert Butyl Ether	ND		20	18.1	91	20	19.6	98	8	73-120/10
100-42-5	Styrene	ND		20	3.4	17* [c]	20	4.2	21* [c]	21* [d]	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	23.7	119	20	24.4	122	3	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	22.5	113	20	23.5	118	4	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	21.6	108	20	22.5	113	4	79-122/10
127-18-4	Tetrachloroethylene	1.7		20	23.2	108	20	24.2	113	4	72-124/13
108-88-3	Toluene	ND		20	18.4	92	20	19.3	97	5	78-121/10
79-01-6	Trichloroethylene	35.3		20	60.3	125* [e]	20	63.2	140* [e]	5	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	22.4	112	20	22.2	111	1	68-130/19
75-01-4	Vinyl chloride	2.4		20	26.2	119	20	26.3	120	0	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45935-19MS	U35104.D	1	06/07/16	MV	n/a	n/a	VU1442
C45935-19MSD	U35105.D	1	06/07/16	MV	n/a	n/a	VU1442
C45935-19	U35091.D	1	06/07/16	MV	n/a	n/a	VU1442

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2, C45968-3, C45968-4

CAS No.	Compound	C45935-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-05-4	Vinyl Acetate	ND		20	17.5	88	20	19.0	95	8	66-158/11
1330-20-7	Xylene (total)	ND		60	33.9	57* [c]	60	37.0	62* [c]	9	78-122/10
	m,p-Xylene	ND		40	21.3	53* [f]	40	23.4	59* [f]	9	78-123/10
95-47-6	o-Xylene	ND		20	12.6	63* [c]	20	13.6	68* [c]	8	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C45935-19	Limits
1868-53-7	Dibromofluoromethane	102%	103%	111%	80-123%
2037-26-5	Toluene-D8	90%	91%	91%	88-112%
460-00-4	4-Bromofluorobenzene	98%	96%	89%	79-114%

(a) Outside control limits due to high level in sample relative to spike amount. AZ:M3
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside laboratory control limits. AZ:M2
(d) Outside laboratory control limits. AZ:R9
(e) Outside laboratory control limits. AZ:M1
(f) Outside laboratory control limits. AZ:L2

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45936-4MS	W61246.D	1	06/08/16	CV	n/a	n/a	VW2313
C45936-4MSD	W61247.D	1	06/08/16	CV	n/a	n/a	VW2313
C45936-4	W61230.D	1	06/07/16	CV	n/a	n/a	VW2313

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-1

CAS No.	Compound	C45936-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		80	73.3	92	80	75.0	94	2	55-147/17
71-43-2	Benzene	ND		20	20.0	100	20	19.8	99	1	76-120/10
75-27-4	Bromodichloromethane	ND		20	18.1	91	20	17.7	89	2	75-121/10
75-25-2	Bromoform	ND		20	17.1	86	20	17.0	85	1	62-127/10
108-90-7	Chlorobenzene	ND		20	19.5	98	20	19.5	98	0	79-119/10
75-00-3	Chloroethane	ND		20	20.7	104	20	20.6	103	0	60-115/14
67-66-3	Chloroform	ND		20	19.3	97	20	19.0	95	2	75-122/10
75-15-0	Carbon disulfide	ND		20	19.0	95	20	18.8	94	1	51-130/13
56-23-5	Carbon tetrachloride	ND		20	21.3	107	20	21.2	106	0	72-128/13
75-34-3	1,1-Dichloroethane	0.63	J	20	20.6	100	20	20.3	98	1	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	21.2	106	20	21.0	105	1	62-125/13
107-06-2	1,2-Dichloroethane	ND		20	19.3	97	20	19.0	95	2	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	19.0	95	20	18.8	94	1	75-123/10
124-48-1	Dibromochloromethane	ND		20	17.9	90	20	17.9	90	0	76-124/10
156-59-2	cis-1,2-Dichloroethylene	0.42	J	20	20.4	100	20	20.3	99	0	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	19.3	97	20	18.8	94	3	76-131/10
156-60-5	trans-1,2-Dichloroethylene	ND		20	19.2	96	20	19.0	95	1	67-116/11
540-59-0	1,2-Dichloroethene (total)	0.42	J	40	39.6	98	40	39.3	97	1	72-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	18.6	93	20	18.3	92	2	73-125/10
100-41-4	Ethylbenzene	ND		20	20.8	104	20	20.6	103	1	78-123/10
591-78-6	2-Hexanone	ND		80	78.3	98	80	79.5	99	2	71-145/12
108-10-1	4-Methyl-2-pentanone	ND		80	73.5	92	80	73.1	91	1	70-142/11
74-83-9	Methyl bromide	ND		20	18.4	92	20	18.4	92	0	65-124/13
74-87-3	Methyl chloride	ND		20	21.0	105	20	21.0	105	0	47-143/20
75-09-2	Methylene chloride	ND		20	19.5	98	20	19.3	97	1	65-124/15
78-93-3	Methyl ethyl ketone	ND		80	72.4	91	80	72.6	91	0	66-145/12
1634-04-4	Methyl Tert Butyl Ether	ND		20	16.6	83	20	16.5	83	1	73-120/10
100-42-5	Styrene	ND		20	19.1	96	20	19.0	95	1	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	21.5	108	20	21.1	106	2	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	19.8	99	20	19.9	100	1	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	19.2	96	20	19.0	95	1	79-122/10
127-18-4	Tetrachloroethylene	ND		20	20.8	104	20	20.8	104	0	72-124/13
108-88-3	Toluene	0.30	J	20	21.0	104	20	20.9	103	0	78-121/10
79-01-6	Trichloroethylene	ND		20	20.4	102	20	20.2	101	1	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	20.5	103	20	20.4	102	0	68-130/19
75-01-4	Vinyl chloride	ND		20	21.7	109	20	21.9	110	1	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45936-4MS	W61246.D	1	06/08/16	CV	n/a	n/a	VW2313
C45936-4MSD	W61247.D	1	06/08/16	CV	n/a	n/a	VW2313
C45936-4	W61230.D	1	06/07/16	CV	n/a	n/a	VW2313

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-1

CAS No.	Compound	C45936-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-05-4	Vinyl Acetate	ND		20	17.9	90	20	17.6	88	2	66-158/11
1330-20-7	Xylene (total)	ND		60	59.8	100	60	59.4	99	1	78-122/10
	m,p-Xylene	ND		40	40.4	101	40	40.2	101	0	78-123/10
95-47-6	o-Xylene	ND		20	19.4	97	20	19.2	96	1	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C45936-4	Limits
1868-53-7	Dibromofluoromethane	97%	98%	102%	80-123%
2037-26-5	Toluene-D8	102%	104%	101%	88-112%
460-00-4	4-Bromofluorobenzene	97%	96%	102%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45984-1MS	N56235.D	100	06/08/16	MV	n/a	n/a	VN1504
C45984-1MSD	N56236.D	100	06/08/16	MV	n/a	n/a	VN1504
C45984-1	N56204.D	100	06/08/16	MV	n/a	n/a	VN1504

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-5

CAS No.	Compound	C45984-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		8000	9050	113	8000	8410	105	7	55-147/17
71-43-2	Benzene	2450		2000	4900	123* [a]	2000	4900	123* [a]	0	76-120/10
75-27-4	Bromodichloromethane	ND		2000	1940	97	2000	1960	98	1	75-121/10
75-25-2	Bromoform	ND		2000	1620	81	2000	1600	80	1	62-127/10
108-90-7	Chlorobenzene	ND		2000	1950	98	2000	1940	97	1	79-119/10
75-00-3	Chloroethane	ND		2000	1930	97	2000	1860	93	4	60-115/14
67-66-3	Chloroform	ND		2000	1930	97	2000	1930	97	0	75-122/10
75-15-0	Carbon disulfide	ND		2000	1800	90	2000	1840	92	2	51-130/13
56-23-5	Carbon tetrachloride	ND		2000	2060	103	2000	2110	106	2	72-128/13
75-34-3	1,1-Dichloroethane	ND		2000	2010	101	2000	1980	99	2	70-121/10
75-35-4	1,1-Dichloroethylene	ND		2000	1970	99	2000	1950	98	1	62-125/13
107-06-2	1,2-Dichloroethane	ND		2000	1940	97	2000	1930	97	1	74-122/10
78-87-5	1,2-Dichloropropane	ND		2000	1990	100	2000	2010	101	1	75-123/10
124-48-1	Dibromochloromethane	ND		2000	1990	100	2000	2000	100	1	76-124/10
156-59-2	cis-1,2-Dichloroethylene	ND		2000	2090	105	2000	2030	102	3	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		2000	2030	102	2000	2060	103	1	76-131/10
156-60-5	trans-1,2-Dichloroethylene	ND		2000	1820	91	2000	1800	90	1	67-116/11
540-59-0	1,2-Dichloroethene (total)	ND		4000	3910	98	4000	3830	96	2	72-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		2000	1920	96	2000	1920	96	0	73-125/10
100-41-4	Ethylbenzene	359		2000	2410	103	2000	2410	103	0	78-123/10
591-78-6	2-Hexanone	ND		8000	9720	122	8000	8990	112	8	71-145/12
108-10-1	4-Methyl-2-pentanone	ND		8000	9440	118	8000	8820	110	7	70-142/11
74-83-9	Methyl bromide	ND		2000	1800	90	2000	1720	86	5	65-124/13
74-87-3	Methyl chloride	ND		2000	1850	93	2000	1790	90	3	47-143/20
75-09-2	Methylene chloride	ND		2000	1990	100	2000	1940	97	3	65-124/15
78-93-3	Methyl ethyl ketone	ND		8000	9320	117	8000	8760	110	6	66-145/12
1634-04-4	Methyl Tert Butyl Ether	59.8	J	2000	1860	90	2000	1790	87	4	73-120/10
100-42-5	Styrene	ND		2000	2150	108	2000	2110	106	2	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		2000	2000	100	2000	2020	101	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		2000	2200	110	2000	2010	101	9	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		2000	2010	101	2000	1990	100	1	79-122/10
127-18-4	Tetrachloroethylene	ND		2000	1930	97	2000	1950	98	1	72-124/13
108-88-3	Toluene	ND		2000	1960	98	2000	1980	99	1	78-121/10
79-01-6	Trichloroethylene	ND		2000	1970	99	2000	1980	99	1	75-119/10
75-69-4	Trichlorofluoromethane	ND		2000	2140	107	2000	2010	101	6	68-130/19
75-01-4	Vinyl chloride	ND		2000	1910	96	2000	1880	94	2	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45984-1MS	N56235.D	100	06/08/16	MV	n/a	n/a	VN1504
C45984-1MSD	N56236.D	100	06/08/16	MV	n/a	n/a	VN1504
C45984-1	N56204.D	100	06/08/16	MV	n/a	n/a	VN1504

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-5

CAS No.	Compound	C45984-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-05-4	Vinyl Acetate	ND		2000	2040	102	2000	1980	99	3	66-158/11
1330-20-7	Xylene (total)	ND		6000	5980	100	6000	5980	100	0	78-122/10
	m,p-Xylene	ND		4000	4000	100	4000	4010	100	0	78-123/10
95-47-6	o-Xylene	ND		2000	1970	99	2000	1970	99	0	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C45984-1	Limits
1868-53-7	Dibromofluoromethane	99%	99%	99%	80-123%
2037-26-5	Toluene-D8	100%	100%	101%	88-112%
460-00-4	4-Bromofluorobenzene	101%	101%	97%	79-114%

(a) Outside laboratory control limits. AZ:M1

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C45968
Account: APEXCORP Apex Companies
Project: Regency - Cascade Plaza, 7601-7725 Evergreen Way, Everett, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46007-1MS	R40747.D	12.5	06/09/16	MV	n/a	n/a	VR1567
C46007-1MSD	R40748.D	12.5	06/09/16	MV	n/a	n/a	VR1567
C46007-1	R40744.D	12.5	06/09/16	MV	n/a	n/a	VR1567

The QC reported here applies to the following samples: **Method:** SW846 8260B

C45968-2

CAS No.	Compound	C46007-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD

CAS No.	Surrogate Recoveries	MS	MSD	C46007-1	Limits
1868-53-7	Dibromofluoromethane	99%	98%	104%	80-123%
2037-26-5	Toluene-D8	105%	105%	105%	88-112%
460-00-4	4-Bromofluorobenzene	103%	100%	86%	79-114%

* = Outside of Control Limits.

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6/9/2016

Ms. Ashleigh Fines

Apex Companies, LLC (formerly Ash Creek Associates)

3015 SW 1st Avenue

Portland OR 97201

Project Name: Regency Centers

Project #: Regen-043

Workorder #: 1605557

Dear Ms. Ashleigh Fines

The following report includes the data for the above referenced project for sample(s) received on 5/26/2016 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1605557

Work Order Summary

CLIENT:	Ms. Ashleigh Fines Apex Companies, LLC (formerly Ash Creek Associates) 3015 SW 1st Avenue Portland, OR 97201	**BILL TO:**	Ms. Ashleigh Fines Apex Companies, LLC (formerly Ash Creek Associates) 3015 SW 1st Avenue Portland, OR 97201
PHONE:	503-924-4704	**P.O. #**	Regen-043
FAX:	503-924-4707	**PROJECT #**	Regen-043 Regency Centers
DATE RECEIVED:	05/26/2016	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	06/09/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	AA-1	Modified TO-15	10.4 "Hg	5.2 psi
01B	AA-1	Modified TO-15	10.4 "Hg	5.2 psi
02A	AA-2	Modified TO-15	6.7 "Hg	5.1 psi
02B	AA-2	Modified TO-15	6.7 "Hg	5.1 psi
03A	VP-1	Modified TO-15	7.6 "Hg	4.5 psi
04A	VP-2	Modified TO-15	4.5 "Hg	4.9 psi
05A	Lab Blank	Modified TO-15	NA	NA
05B	Lab Blank	Modified TO-15	NA	NA
05C	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
06B	CCV	Modified TO-15	NA	NA
06C	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA
07B	LCS	Modified TO-15	NA	NA
07BB	LCSD	Modified TO-15	NA	NA
07C	LCS	Modified TO-15	NA	NA
07CC	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 06/09/16

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

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
Apex Companies, LLC (formerly Ash Creek Associates)
Workorder# 1605557

Four 6 Liter Summa Canister (SIM Certified) samples were received on May 26, 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.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=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 </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=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

The Chain of Custody (COC) information for samples AA-1, AA-2, VP-1 and VP-2 did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

Analytical Notes

The results for samples AA-1 and AA-2 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.

Samples VP-1 and VP-2 were diluted and transferred from SIM/Low Level analysis to full scan TO-15 due to high levels of target compounds.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Ethanol exceeded the instrument's calibration range for sample AA-2 and was flagged accordingly.

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

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

Client Sample ID: AA-1

Lab ID#: 1605557-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.21	0.27	1.2	1.5
Ethanol	1.0	11	2.0	20
Acetone	1.0	5.3	2.4	12

Client Sample ID: AA-1

Lab ID#: 1605557-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.041	0.54	0.20	2.7
Chloromethane	0.10	0.54	0.21	1.1
Carbon Tetrachloride	0.041	0.078	0.26	0.49
Benzene	0.10	0.12	0.33	0.39
Toluene	0.041	1.3	0.16	5.1
Tetrachloroethene	0.041	0.20	0.28	1.3
Ethyl Benzene	0.041	0.056	0.18	0.24
m,p-Xylene	0.083	0.18	0.36	0.76
o-Xylene	0.041	0.073	0.18	0.32

Client Sample ID: AA-2

Lab ID#: 1605557-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.17	0.31	0.98	1.8
Ethanol	0.87	610 E	1.6	1100 E
Acetone	0.87	8.3	2.1	20
2-Propanol	0.87	30	2.1	73
Methylene Chloride	0.35	36	1.2	120
Hexane	0.17	0.27	0.61	0.94
2-Butanone (Methyl Ethyl Ketone)	0.87	0.90	2.6	2.7
Cyclohexane	0.17	0.32	0.60	1.1
Heptane	0.17	0.21	0.71	0.88
Styrene	0.17	0.20	0.74	0.83

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

Client Sample ID: AA-2

Lab ID#: 1605557-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.49	0.17	2.4
Chloromethane	0.087	0.59	0.18	1.2
Chloroform	0.035	0.084	0.17	0.41
Carbon Tetrachloride	0.035	0.070	0.22	0.44
Benzene	0.087	0.22	0.28	0.70
1,2-Dichloroethane	0.035	0.097	0.14	0.39
Toluene	0.035	5.7	0.13	21
Tetrachloroethene	0.035	0.80	0.24	5.4
Ethyl Benzene	0.035	0.17	0.15	0.73
m,p-Xylene	0.070	0.50	0.30	2.2
o-Xylene	0.035	0.19	0.15	0.82

Client Sample ID: VP-1

Lab ID#: 1605557-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	3.5	1300	24	8800

Client Sample ID: VP-2

Lab ID#: 1605557-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	3.9	1500	26	10000

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Client Sample ID: AA-1

Lab ID#: 1605557-01A

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

File Name:	**20060207**	**Date of Collection: 5/24/16 2:15:00 PM**	
Dil. Factor:	**2.07**	**Date of Analysis: 6/2/16 01:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.21	Not Detected	0.46	Not Detected
Bromomethane	1.0	Not Detected	4.0	Not Detected
Freon 11	0.21	0.27	1.2	1.5
Ethanol	1.0	11	2.0	20
Freon 113	0.21	Not Detected	1.6	Not Detected
Acetone	1.0	5.3	2.4	12
2-Propanol	1.0	Not Detected	2.5	Not Detected
Carbon Disulfide	1.0	Not Detected	3.2	Not Detected
3-Chloropropene	1.0	Not Detected	3.2	Not Detected
Methylene Chloride	0.41	Not Detected	1.4	Not Detected
Hexane	0.21	Not Detected	0.73	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	Not Detected	3.0	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Cyclohexane	0.21	Not Detected	0.71	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
Heptane	0.21	Not Detected	0.85	Not Detected
1,2-Dichloropropane	0.21	Not Detected	0.96	Not Detected
1,4-Dioxane	0.21	Not Detected	0.74	Not Detected
Bromodichloromethane	0.21	Not Detected	1.4	Not Detected
cis-1,3-Dichloropropene	0.21	Not Detected	0.94	Not Detected
4-Methyl-2-pentanone	0.21	Not Detected	0.85	Not Detected
trans-1,3-Dichloropropene	0.21	Not Detected	0.94	Not Detected
2-Hexanone	1.0	Not Detected	4.2	Not Detected
Dibromochloromethane	0.21	Not Detected	1.8	Not Detected
Chlorobenzene	0.21	Not Detected	0.95	Not Detected
Styrene	0.21	Not Detected	0.88	Not Detected
Bromoform	0.21	Not Detected	2.1	Not Detected
Cumene	0.21	Not Detected	1.0	Not Detected
Propylbenzene	0.21	Not Detected	1.0	Not Detected
4-Ethyltoluene	0.21	Not Detected	1.0	Not Detected
1,3,5-Trimethylbenzene	0.21	Not Detected	1.0	Not Detected
1,2,4-Trimethylbenzene	0.21	Not Detected	1.0	Not Detected
1,3-Dichlorobenzene	0.21	Not Detected	1.2	Not Detected
alpha-Chlorotoluene	0.21	Not Detected	1.1	Not Detected
1,2-Dichlorobenzene	0.21	Not Detected	1.2	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected	7.7	Not Detected
Hexachlorobutadiene	1.0	Not Detected	11	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130

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Client Sample ID: AA-1

Lab ID#: 1605557-01A

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

File Name:	**20060207**	**Date of Collection: 5/24/16 2:15:00 PM**	
Dil. Factor:	**2.07**	**Date of Analysis: 6/2/16 01:25 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: AA-1

Lab ID#: 1605557-01B

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

File Name:	**20060207sim**	**Date of Collection: 5/24/16 2:15:00 PM**	
Dil. Factor:	**2.07**	**Date of Analysis: 6/2/16 01:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.041	0.54	0.20	2.7
Freon 114	0.041	Not Detected	0.29	Not Detected
Chloromethane	0.10	0.54	0.21	1.1
Vinyl Chloride	0.021	Not Detected	0.053	Not Detected
Chloroethane	0.10	Not Detected	0.27	Not Detected
1,1-Dichloroethene	0.021	Not Detected	0.082	Not Detected
trans-1,2-Dichloroethene	0.21	Not Detected	0.82	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.75	Not Detected
1,1-Dichloroethane	0.041	Not Detected	0.17	Not Detected
cis-1,2-Dichloroethene	0.041	Not Detected	0.16	Not Detected
Chloroform	0.041	Not Detected	0.20	Not Detected
1,1,1-Trichloroethane	0.041	Not Detected	0.22	Not Detected
Carbon Tetrachloride	0.041	0.078	0.26	0.49
Benzene	0.10	0.12	0.33	0.39
1,2-Dichloroethane	0.041	Not Detected	0.17	Not Detected
Trichloroethene	0.041	Not Detected	0.22	Not Detected
Toluene	0.041	1.3	0.16	5.1
1,1,2-Trichloroethane	0.041	Not Detected	0.22	Not Detected
Tetrachloroethene	0.041	0.20	0.28	1.3
1,2-Dibromoethane (EDB)	0.041	Not Detected	0.32	Not Detected
Ethyl Benzene	0.041	0.056	0.18	0.24
m,p-Xylene	0.083	0.18	0.36	0.76
o-Xylene	0.041	0.073	0.18	0.32
1,1,2,2-Tetrachloroethane	0.041	Not Detected	0.28	Not Detected
1,4-Dichlorobenzene	0.041	Not Detected	0.25	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: AA-2

Lab ID#: 1605557-02A

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

File Name:	**20060209**	**Date of Collection: 5/24/16 2:15:00 PM**	
Dil. Factor:	**1.74**	**Date of Analysis: 6/2/16 03:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.87	Not Detected	3.4	Not Detected
Freon 11	0.17	0.31	0.98	1.8
Ethanol	0.87	610 E	1.6	1100 E
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	0.87	8.3	2.1	20
2-Propanol	0.87	30	2.1	73
Carbon Disulfide	0.87	Not Detected	2.7	Not Detected
3-Chloropropene	0.87	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	36	1.2	120
Hexane	0.17	0.27	0.61	0.94
2-Butanone (Methyl Ethyl Ketone)	0.87	0.90	2.6	2.7
Tetrahydrofuran	0.87	Not Detected	2.6	Not Detected
Cyclohexane	0.17	0.32	0.60	1.1
2,2,4-Trimethylpentane	0.87	Not Detected	4.1	Not Detected
Heptane	0.17	0.21	0.71	0.88
1,2-Dichloropropane	0.17	Not Detected	0.80	Not Detected
1,4-Dioxane	0.17	Not Detected	0.63	Not Detected
Bromodichloromethane	0.17	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.79	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.71	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.79	Not Detected
2-Hexanone	0.87	Not Detected	3.6	Not Detected
Dibromochloromethane	0.17	Not Detected	1.5	Not Detected
Chlorobenzene	0.17	Not Detected	0.80	Not Detected
Styrene	0.17	0.20	0.74	0.83
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.86	Not Detected
Propylbenzene	0.17	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.86	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.86	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.90	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.87	Not Detected	6.4	Not Detected
Hexachlorobutadiene	0.87	Not Detected	9.3	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits

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Client Sample ID: AA-2

Lab ID#: 1605557-02A

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

File Name:	**20060209**	**Date of Collection: 5/24/16 2:15:00 PM**	
Dil. Factor:	**1.74**	**Date of Analysis: 6/2/16 03:00 PM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: AA-2

Lab ID#: 1605557-02B

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

File Name:	**20060209sim**	**Date of Collection: 5/24/16 2:15:00 PM**	
Dil. Factor:	**1.74**	**Date of Analysis: 6/2/16 03:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.49	0.17	2.4
Freon 114	0.035	Not Detected	0.24	Not Detected
Chloromethane	0.087	0.59	0.18	1.2
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Chloroethane	0.087	Not Detected	0.23	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.069	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.63	Not Detected
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.084	0.17	0.41
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.070	0.22	0.44
Benzene	0.087	0.22	0.28	0.70
1,2-Dichloroethane	0.035	0.097	0.14	0.39
Trichloroethene	0.035	Not Detected	0.19	Not Detected
Toluene	0.035	5.7	0.13	21
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.80	0.24	5.4
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.27	Not Detected
Ethyl Benzene	0.035	0.17	0.15	0.73
m,p-Xylene	0.070	0.50	0.30	2.2
o-Xylene	0.035	0.19	0.15	0.82
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: VP-1

Lab ID#: 1605557-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060312**	**Date of Collection:**	**5/24/16 11:17:00 AM**
Dil. Factor:	**7.00**	**Date of Analysis:**	**6/3/16 06:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.5	Not Detected	17	Not Detected
Freon 114	3.5	Not Detected	24	Not Detected
Chloromethane	35	Not Detected	72	Not Detected
Vinyl Chloride	3.5	Not Detected	8.9	Not Detected
1,3-Butadiene	3.5	Not Detected	7.7	Not Detected
Bromomethane	35	Not Detected	140	Not Detected
Chloroethane	14	Not Detected	37	Not Detected
Freon 11	3.5	Not Detected	20	Not Detected
Ethanol	14	Not Detected	26	Not Detected
Freon 113	3.5	Not Detected	27	Not Detected
1,1-Dichloroethene	3.5	Not Detected	14	Not Detected
Acetone	35	Not Detected	83	Not Detected
2-Propanol	14	Not Detected	34	Not Detected
Carbon Disulfide	14	Not Detected	44	Not Detected
3-Chloropropene	14	Not Detected	44	Not Detected
Methylene Chloride	35	Not Detected	120	Not Detected
Methyl tert-butyl ether	3.5	Not Detected	13	Not Detected
trans-1,2-Dichloroethene	3.5	Not Detected	14	Not Detected
Hexane	3.5	Not Detected	12	Not Detected
1,1-Dichloroethane	3.5	Not Detected	14	Not Detected
2-Butanone (Methyl Ethyl Ketone)	14	Not Detected	41	Not Detected
cis-1,2-Dichloroethene	3.5	Not Detected	14	Not Detected
Tetrahydrofuran	3.5	Not Detected	10	Not Detected
Chloroform	3.5	Not Detected	17	Not Detected
1,1,1-Trichloroethane	3.5	Not Detected	19	Not Detected
Cyclohexane	3.5	Not Detected	12	Not Detected
Carbon Tetrachloride	3.5	Not Detected	22	Not Detected
2,2,4-Trimethylpentane	3.5	Not Detected	16	Not Detected
Benzene	3.5	Not Detected	11	Not Detected
1,2-Dichloroethane	3.5	Not Detected	14	Not Detected
Heptane	3.5	Not Detected	14	Not Detected
Trichloroethene	3.5	Not Detected	19	Not Detected
1,2-Dichloropropane	3.5	Not Detected	16	Not Detected
1,4-Dioxane	14	Not Detected	50	Not Detected
Bromodichloromethane	3.5	Not Detected	23	Not Detected
cis-1,3-Dichloropropene	3.5	Not Detected	16	Not Detected
4-Methyl-2-pentanone	3.5	Not Detected	14	Not Detected
Toluene	3.5	Not Detected	13	Not Detected
trans-1,3-Dichloropropene	3.5	Not Detected	16	Not Detected
1,1,2-Trichloroethane	3.5	Not Detected	19	Not Detected
Tetrachloroethene	3.5	1300	24	8800
2-Hexanone	14	Not Detected	57	Not Detected

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Client Sample ID: VP-1

Lab ID#: 1605557-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060312**	**Date of Collection:**	**5/24/16 11:17:00 AM**
Dil. Factor:	**7.00**	**Date of Analysis:**	**6/3/16 06:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3.5	Not Detected	30	Not Detected
1,2-Dibromoethane (EDB)	3.5	Not Detected	27	Not Detected
Chlorobenzene	3.5	Not Detected	16	Not Detected
Ethyl Benzene	3.5	Not Detected	15	Not Detected
m,p-Xylene	3.5	Not Detected	15	Not Detected
o-Xylene	3.5	Not Detected	15	Not Detected
Styrene	3.5	Not Detected	15	Not Detected
Bromoform	3.5	Not Detected	36	Not Detected
Cumene	3.5	Not Detected	17	Not Detected
1,1,2,2-Tetrachloroethane	3.5	Not Detected	24	Not Detected
Propylbenzene	3.5	Not Detected	17	Not Detected
4-Ethyltoluene	3.5	Not Detected	17	Not Detected
1,3,5-Trimethylbenzene	3.5	Not Detected	17	Not Detected
1,2,4-Trimethylbenzene	3.5	Not Detected	17	Not Detected
1,3-Dichlorobenzene	3.5	Not Detected	21	Not Detected
1,4-Dichlorobenzene	3.5	Not Detected	21	Not Detected
alpha-Chlorotoluene	3.5	Not Detected	18	Not Detected
1,2-Dichlorobenzene	3.5	Not Detected	21	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected	100	Not Detected
Hexachlorobutadiene	14	Not Detected	150	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: VP-2

Lab ID#: 1605557-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060313**	**Date of Collection:**	**5/24/16 11:10:00 AM**
Dil. Factor:	**7.84**	**Date of Analysis:**	**6/3/16 06:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.9	Not Detected	19	Not Detected
Freon 114	3.9	Not Detected	27	Not Detected
Chloromethane	39	Not Detected	81	Not Detected
Vinyl Chloride	3.9	Not Detected	10	Not Detected
1,3-Butadiene	3.9	Not Detected	8.7	Not Detected
Bromomethane	39	Not Detected	150	Not Detected
Chloroethane	16	Not Detected	41	Not Detected
Freon 11	3.9	Not Detected	22	Not Detected
Ethanol	16	Not Detected	30	Not Detected
Freon 113	3.9	Not Detected	30	Not Detected
1,1-Dichloroethene	3.9	Not Detected	16	Not Detected
Acetone	39	Not Detected	93	Not Detected
2-Propanol	16	Not Detected	38	Not Detected
Carbon Disulfide	16	Not Detected	49	Not Detected
3-Chloropropene	16	Not Detected	49	Not Detected
Methylene Chloride	39	Not Detected	140	Not Detected
Methyl tert-butyl ether	3.9	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	3.9	Not Detected	16	Not Detected
Hexane	3.9	Not Detected	14	Not Detected
1,1-Dichloroethane	3.9	Not Detected	16	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16	Not Detected	46	Not Detected
cis-1,2-Dichloroethene	3.9	Not Detected	16	Not Detected
Tetrahydrofuran	3.9	Not Detected	12	Not Detected
Chloroform	3.9	Not Detected	19	Not Detected
1,1,1-Trichloroethane	3.9	Not Detected	21	Not Detected
Cyclohexane	3.9	Not Detected	13	Not Detected
Carbon Tetrachloride	3.9	Not Detected	25	Not Detected
2,2,4-Trimethylpentane	3.9	Not Detected	18	Not Detected
Benzene	3.9	Not Detected	12	Not Detected
1,2-Dichloroethane	3.9	Not Detected	16	Not Detected
Heptane	3.9	Not Detected	16	Not Detected
Trichloroethene	3.9	Not Detected	21	Not Detected
1,2-Dichloropropane	3.9	Not Detected	18	Not Detected
1,4-Dioxane	16	Not Detected	56	Not Detected
Bromodichloromethane	3.9	Not Detected	26	Not Detected
cis-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
4-Methyl-2-pentanone	3.9	Not Detected	16	Not Detected
Toluene	3.9	Not Detected	15	Not Detected
trans-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
1,1,2-Trichloroethane	3.9	Not Detected	21	Not Detected
Tetrachloroethene	3.9	1500	26	10000
2-Hexanone	16	Not Detected	64	Not Detected

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Client Sample ID: VP-2

Lab ID#: 1605557-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060313**	**Date of Collection:**	**5/24/16 11:10:00 AM**
Dil. Factor:	**7.84**	**Date of Analysis:**	**6/3/16 06:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3.9	Not Detected	33	Not Detected
1,2-Dibromoethane (EDB)	3.9	Not Detected	30	Not Detected
Chlorobenzene	3.9	Not Detected	18	Not Detected
Ethyl Benzene	3.9	Not Detected	17	Not Detected
m,p-Xylene	3.9	Not Detected	17	Not Detected
o-Xylene	3.9	Not Detected	17	Not Detected
Styrene	3.9	Not Detected	17	Not Detected
Bromoform	3.9	Not Detected	40	Not Detected
Cumene	3.9	Not Detected	19	Not Detected
1,1,2,2-Tetrachloroethane	3.9	Not Detected	27	Not Detected
Propylbenzene	3.9	Not Detected	19	Not Detected
4-Ethyltoluene	3.9	Not Detected	19	Not Detected
1,3,5-Trimethylbenzene	3.9	Not Detected	19	Not Detected
1,2,4-Trimethylbenzene	3.9	Not Detected	19	Not Detected
1,3-Dichlorobenzene	3.9	Not Detected	24	Not Detected
1,4-Dichlorobenzene	3.9	Not Detected	24	Not Detected
alpha-Chlorotoluene	3.9	Not Detected	20	Not Detected
1,2-Dichlorobenzene	3.9	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected	120	Not Detected
Hexachlorobutadiene	16	Not Detected	170	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1605557-05A

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

File Name:	**20060206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 12:32 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1605557-05A

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

File Name:	**20060206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 12:32 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1605557-05B

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

File Name:	**20060206sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 12:32 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.050	Not Detected	0.10	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	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
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1605557-05C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060307**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/3/16 03:11 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1605557-05C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060307**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/3/16 03:11 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1605557-06A

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

File Name:	**20060202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 08:44 AM**	

Compound	%Recovery
1,3-Butadiene	112
Bromomethane	114
Freon 11	118
Ethanol	107
Freon 113	110
Acetone	104
2-Propanol	94
Carbon Disulfide	110
3-Chloropropene	102
Methylene Chloride	103
Hexane	105
2-Butanone (Methyl Ethyl Ketone)	103
Tetrahydrofuran	107
Cyclohexane	104
2,2,4-Trimethylpentane	109
Heptane	124
1,2-Dichloropropane	111
1,4-Dioxane	115
Bromodichloromethane	133 Q
cis-1,3-Dichloropropene	114
4-Methyl-2-pentanone	118
trans-1,3-Dichloropropene	123
2-Hexanone	107
Dibromochloromethane	138 Q
Chlorobenzene	118
Styrene	119
Bromoform	138 Q
Cumene	125
Propylbenzene	112
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	124
1,2,4-Trimethylbenzene	125
1,3-Dichlorobenzene	111
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	117
Hexachlorobutadiene	119

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits

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Client Sample ID: CCV

Lab ID#: 1605557-06A

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

File Name:	**20060202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 08:44 AM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: CCV

Lab ID#: 1605557-06B

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

File Name:	**20060202sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 08:44 AM**	

Compound	%Recovery
Freon 12	116
Freon 114	110
Chloromethane	103
Vinyl Chloride	107
Chloroethane	114
1,1-Dichloroethene	97
trans-1,2-Dichloroethene	104
Methyl tert-butyl ether	119
1,1-Dichloroethane	113
cis-1,2-Dichloroethene	106
Chloroform	119
1,1,1-Trichloroethane	122
Carbon Tetrachloride	126
Benzene	109
1,2-Dichloroethane	124
Trichloroethene	102
Toluene	115
1,1,2-Trichloroethane	117
Tetrachloroethene	109
1,2-Dibromoethane (EDB)	124
Ethyl Benzene	123
m,p-Xylene	123
o-Xylene	121
1,1,2,2-Tetrachloroethane	116
1,4-Dichlorobenzene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: CCV

Lab ID#: 1605557-06C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060306**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/3/16 02:44 PM**

Compound	%Recovery
Freon 12	116
Freon 114	115
Chloromethane	117
Vinyl Chloride	127
1,3-Butadiene	118
Bromomethane	129
Chloroethane	122
Freon 11	114
Ethanol	117
Freon 113	112
1,1-Dichloroethene	130
Acetone	115
2-Propanol	116
Carbon Disulfide	126
3-Chloropropene	125
Methylene Chloride	123
Methyl tert-butyl ether	124
trans-1,2-Dichloroethene	129
Hexane	125
1,1-Dichloroethane	123
2-Butanone (Methyl Ethyl Ketone)	122
cis-1,2-Dichloroethene	125
Tetrahydrofuran	116
Chloroform	121
1,1,1-Trichloroethane	116
Cyclohexane	122
Carbon Tetrachloride	114
2,2,4-Trimethylpentane	125
Benzene	120
1,2-Dichloroethane	118
Heptane	122
Trichloroethene	118
1,2-Dichloropropane	121
1,4-Dioxane	104
Bromodichloromethane	119
cis-1,3-Dichloropropene	123
4-Methyl-2-pentanone	105
Toluene	115
trans-1,3-Dichloropropene	125
1,1,2-Trichloroethane	116
Tetrachloroethene	110
2-Hexanone	102

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Client Sample ID: CCV

Lab ID#: 1605557-06C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/3/16 02:44 PM**	

Compound	%Recovery
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	116
Chlorobenzene	116
Ethyl Benzene	116
m,p-Xylene	117
o-Xylene	115
Styrene	115
Bromoform	117
Cumene	115
1,1,2,2-Tetrachloroethane	116
Propylbenzene	115
4-Ethyltoluene	115
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	113
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	93

Container Type: NA - Not Applicable

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

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Client Sample ID: LCS

Lab ID#: 1605557-07A

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

File Name:	**20060203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 09:47 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	108	70-130
Bromomethane	111	70-130
Freon 11	119	70-130
Ethanol	107	70-130
Freon 113	109	70-130
Acetone	107	70-130
2-Propanol	92	70-130
Carbon Disulfide	96	70-130
3-Chloropropene	89	70-130
Methylene Chloride	102	70-130
Hexane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
Tetrahydrofuran	103	70-130
Cyclohexane	103	70-130
2,2,4-Trimethylpentane	107	70-130
Heptane	118	70-130
1,2-Dichloropropane	112	70-130
1,4-Dioxane	111	70-130
Bromodichloromethane	139 Q	70-130
cis-1,3-Dichloropropene	105	70-130
4-Methyl-2-pentanone	117	70-130
trans-1,3-Dichloropropene	124	70-130
2-Hexanone	101	70-130
Dibromochloromethane	149 Q	70-130
Chlorobenzene	119	70-130
Styrene	128	70-130
Bromoform	147 Q	70-130
Cumene	125	70-130
Propylbenzene	114	70-130
4-Ethyltoluene	105	70-130
1,3,5-Trimethylbenzene	126	70-130
1,2,4-Trimethylbenzene	121	70-130
1,3-Dichlorobenzene	110	70-130
alpha-Chlorotoluene	126	70-130
1,2-Dichlorobenzene	109	70-130
1,2,4-Trichlorobenzene	130	70-130
Hexachlorobutadiene	128	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits

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Client Sample ID: LCS

Lab ID#: 1605557-07A

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

File Name:	**20060203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 09:47 AM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCSD

Lab ID#: 1605557-07AA

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

File Name:	**20060204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 10:31 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	108	70-130
Bromomethane	112	70-130
Freon 11	120	70-130
Ethanol	104	70-130
Freon 113	109	70-130
Acetone	108	70-130
2-Propanol	95	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	92	70-130
Methylene Chloride	102	70-130
Hexane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	105	70-130
Tetrahydrofuran	104	70-130
Cyclohexane	102	70-130
2,2,4-Trimethylpentane	106	70-130
Heptane	116	70-130
1,2-Dichloropropane	113	70-130
1,4-Dioxane	108	70-130
Bromodichloromethane	136 Q	70-130
cis-1,3-Dichloropropene	107	70-130
4-Methyl-2-pentanone	117	70-130
trans-1,3-Dichloropropene	124	70-130
2-Hexanone	101	70-130
Dibromochloromethane	141 Q	70-130
Chlorobenzene	116	70-130
Styrene	120	70-130
Bromoform	146 Q	70-130
Cumene	122	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	98	70-130
1,3,5-Trimethylbenzene	119	70-130
1,2,4-Trimethylbenzene	117	70-130
1,3-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	122	70-130
1,2-Dichlorobenzene	108	70-130
1,2,4-Trichlorobenzene	124	70-130
Hexachlorobutadiene	120	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits

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Client Sample ID: LCSD

Lab ID#: 1605557-07AA

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

File Name:	**20060204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 10:31 AM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1605557-07B

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

File Name:	**20060203sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 09:47 AM**	

Compound	%Recovery	Method Limits
Freon 12	118	70-130
Freon 114	117	70-130
Chloromethane	96	70-130
Vinyl Chloride	111	70-130
Chloroethane	117	70-130
1,1-Dichloroethene	98	70-130
trans-1,2-Dichloroethene	106	70-130
Methyl tert-butyl ether	111	70-130
1,1-Dichloroethane	109	70-130
cis-1,2-Dichloroethene	102	70-130
Chloroform	117	70-130
1,1,1-Trichloroethane	121	70-130
Carbon Tetrachloride	141 Q	60-140
Benzene	107	70-130
1,2-Dichloroethane	120	70-130
Trichloroethene	101	70-130
Toluene	114	70-130
1,1,2-Trichloroethane	118	70-130
Tetrachloroethene	112	70-130
1,2-Dibromoethane (EDB)	126	70-130
Ethyl Benzene	124	70-130
m,p-Xylene	124	70-130
o-Xylene	123	70-130
1,1,2,2-Tetrachloroethane	117	70-130
1,4-Dichlorobenzene	91	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 1605557-07BB

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

File Name:	**20060204sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/16 10:31 AM**	

Compound	%Recovery	Method Limits
Freon 12	112	70-130
Freon 114	112	70-130
Chloromethane	95	70-130
Vinyl Chloride	106	70-130
Chloroethane	115	70-130
1,1-Dichloroethene	97	70-130
trans-1,2-Dichloroethene	104	70-130
Methyl tert-butyl ether	110	70-130
1,1-Dichloroethane	107	70-130
cis-1,2-Dichloroethene	100	70-130
Chloroform	115	70-130
1,1,1-Trichloroethane	119	70-130
Carbon Tetrachloride	140	60-140
Benzene	105	70-130
1,2-Dichloroethane	117	70-130
Trichloroethene	100	70-130
Toluene	112	70-130
1,1,2-Trichloroethane	117	70-130
Tetrachloroethene	111	70-130
1,2-Dibromoethane (EDB)	125	70-130
Ethyl Benzene	122	70-130
m,p-Xylene	120	70-130
o-Xylene	120	70-130
1,1,2,2-Tetrachloroethane	116	70-130
1,4-Dichlorobenzene	87	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS

Lab ID#: 1605557-07C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/3/16 01:43 PM**	

Compound	%Recovery	Method Limits
Freon 12	117	70-130
Freon 114	119	70-130
Chloromethane	116	70-130
Vinyl Chloride	128	70-130
1,3-Butadiene	116	70-130
Bromomethane	128	70-130
Chloroethane	124	70-130
Freon 11	114	70-130
Ethanol	119	70-130
Freon 113	110	70-130
1,1-Dichloroethene	126	70-130
Acetone	116	70-130
2-Propanol	118	70-130
Carbon Disulfide	109	70-130
3-Chloropropene	120	70-130
Methylene Chloride	122	70-130
Methyl tert-butyl ether	119	70-130
trans-1,2-Dichloroethene	129	70-130
Hexane	122	70-130
1,1-Dichloroethane	120	70-130
2-Butanone (Methyl Ethyl Ketone)	117	70-130
cis-1,2-Dichloroethene	119	70-130
Tetrahydrofuran	114	70-130
Chloroform	118	70-130
1,1,1-Trichloroethane	113	70-130
Cyclohexane	123	70-130
Carbon Tetrachloride	112	70-130
2,2,4-Trimethylpentane	124	70-130
Benzene	118	70-130
1,2-Dichloroethane	114	70-130
Heptane	122	70-130
Trichloroethene	115	70-130
1,2-Dichloropropane	119	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	118	70-130
cis-1,3-Dichloropropene	114	70-130
4-Methyl-2-pentanone	103	70-130
Toluene	112	70-130
trans-1,3-Dichloropropene	117	70-130
1,1,2-Trichloroethane	112	70-130
Tetrachloroethene	105	70-130
2-Hexanone	102	70-130

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Client Sample ID: LCS

Lab ID#: 1605557-07C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/3/16 01:43 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	109	70-130
1,2-Dibromoethane (EDB)	112	70-130
Chlorobenzene	109	70-130
Ethyl Benzene	110	70-130
m,p-Xylene	110	70-130
o-Xylene	113	70-130
Styrene	113	70-130
Bromoform	114	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	113	70-130
Propylbenzene	114	70-130
4-Ethyltoluene	114	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	109	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	122	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	100	70-130
Hexachlorobutadiene	99	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: LCSD

Lab ID#: 1605557-07CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/3/16 02:19 PM**	

Compound	%Recovery	Method Limits
Freon 12	119	70-130
Freon 114	121	70-130
Chloromethane	121	70-130
Vinyl Chloride	133 Q	70-130
1,3-Butadiene	120	70-130
Bromomethane	128	70-130
Chloroethane	128	70-130
Freon 11	116	70-130
Ethanol	121	70-130
Freon 113	111	70-130
1,1-Dichloroethene	130	70-130
Acetone	117	70-130
2-Propanol	122	70-130
Carbon Disulfide	111	70-130
3-Chloropropene	116	70-130
Methylene Chloride	123	70-130
Methyl tert-butyl ether	122	70-130
trans-1,2-Dichloroethene	126	70-130
Hexane	124	70-130
1,1-Dichloroethane	123	70-130
2-Butanone (Methyl Ethyl Ketone)	117	70-130
cis-1,2-Dichloroethene	120	70-130
Tetrahydrofuran	117	70-130
Chloroform	119	70-130
1,1,1-Trichloroethane	113	70-130
Cyclohexane	122	70-130
Carbon Tetrachloride	111	70-130
2,2,4-Trimethylpentane	126	70-130
Benzene	117	70-130
1,2-Dichloroethane	116	70-130
Heptane	124	70-130
Trichloroethene	114	70-130
1,2-Dichloropropane	117	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	118	70-130
cis-1,3-Dichloropropene	115	70-130
4-Methyl-2-pentanone	102	70-130
Toluene	112	70-130
trans-1,3-Dichloropropene	116	70-130
1,1,2-Trichloroethane	109	70-130
Tetrachloroethene	105	70-130
2-Hexanone	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1605557-07CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a060305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/3/16 02:19 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	108	70-130
1,2-Dibromoethane (EDB)	110	70-130
Chlorobenzene	108	70-130
Ethyl Benzene	111	70-130
m,p-Xylene	110	70-130
o-Xylene	113	70-130
Styrene	112	70-130
Bromoform	113	70-130
Cumene	108	70-130
1,1,2,2-Tetrachloroethane	111	70-130
Propylbenzene	112	70-130
4-Ethyltoluene	112	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	107	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	119	70-130
1,2-Dichlorobenzene	102	70-130
1,2,4-Trichlorobenzene	105	70-130
Hexachlorobutadiene	104	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	97	70-130

Attachment B

Soil and Soil Vapor Point Construction Logs

Sample Descriptions

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, and grain size, and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:
MAJOR CONSTITUENT with additional remarks; color, moisture, minor constituents, density/consistency.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance. Soil density/consistency in test pits and push probe explorations is estimated based on visual observation and is presented parenthetically on test pit and push probe exploration logs.

SAND and GRAVEL Density	Standard Penetration Resistance in Blows/Foot
Very loose	0 - 4
Loose	4 - 10
Medium dense	10 - 30
Dense	30 - 50
Very dense	>50

SILT or CLAY Density	Standard Penetration Resistance in Blows/Foot	Approximate Shear Strength in TSF
Very soft	0 - 2	<0.125
Soft	2 - 4	0.125 - 0.25
Medium stiff	4 - 8	0.25 - 0.5
Stiff	8 - 15	0.5 - 1.0
Very Stiff	15 - 30	1.0 - 2.0
Hard	>30	>2.0

Moisture

Dry	Little perceptible moisture.
Sl. Moist	Some perceptible moisture, probably below optimum.
Moist	Probably near optimum moisture content.
Wet	Much perceptible moisture, probably above optimum.

Minor Constituents

	Estimated Percentage
Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Sampling Symbols

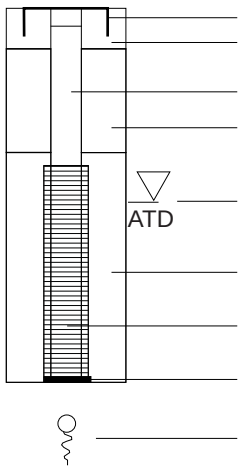
BORING AND PUSH-PROBE SYMBOLS

- Recovery
- No Recovery
- Temporarily Screened Interval
- PID — Photoionization Detector Reading
- W — Water Sample
- Sample Submitted for Chemical Analysis
- NS — No Sheen
- SS — Slight Sheen
- MS — Moderate Sheen
- HS — Heavy Sheen
- BF — Biogenic Film

TEST PIT SOIL SAMPLES

- Grab (Jar)
- Bag
- Shelby Tube

Groundwater Observations and Monitoring Well Construction



- Flush Mounted Monument
- Concrete Surface Seal
- Well Casing
- Bentonite Seal
- Groundwater Level on Date or (ATD) At Time of Drilling
- Sand Pack
- Well Screen
- End Cap
- Groundwater Seepage (Test Pits)

Key to Exploration Logs

Regency Cascade Plaza
Everett, Washington

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number REGEN-043

May 2016

Figure Key

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Regency Cascade Plaza
Everett, Washington

Boring Number: **B-7**

Project Number: **REGEN-043**
Logged By: J. Mattecheck
Date: April 27, 2016
Site Conditions: Indoors
Drilling Contractor: Cascade
Drilling Equipment: Limited Access Geoprobe
Sampler Type: Push-Probe
Depth to Water (ATD): --
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
			<5	NS	Concrete slab (4") over GRAVEL with fines (GM); gray (7.5YR 6/1), dry, loose to medium dense, (70% medium to fine-grained sand, 30% angular to subangular gravels, ~1/4" diameter).
		B-7(1)	<5	NS	Becomes very dense.
			<5	NS	Fine to medium-grained SAND (SP); light brown (7.5YR 6/3), dry, poorly graded, trace ~1/4" diameter angular gravel (<10%), very dense.
			<5	NS	
		B-7(2)	<5	NS	
5			<5	NS	SAND (SP) with cobbles; light brown (7.5YR 6/3), dry, very stiff to hard, (~50% poorly graded fine sand, 50% ~1.5" diameter rounded cobbles).
					Boring Refusal at 6' BGS.
10					
15					

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Portland, Oregon 97201

Regency Cascade Plaza
Everett, Washington

Boring Number: **B-8**
Project Number: **REGEN-043**
Logged By: J. Mattecheck
Date: April 27, 2016
Site Conditions: Indoors
Drilling Contractor: Cascade
Drilling Equipment: Limited Access Geoprobe
Sampler Type: Push-Probe
Depth to Water (ATD): --
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
			<5	NS	Concrete slab (4") over GRAVEL with fines (GM); gray (7.5YR 6/1), dry, loose to medium dense, (70% medium to fine-grained sand, 30% angular to subangular gravels, ~1/4" diameter).
		B-8(1)	<5	NS	Becomes dense.
			<5	NS	Fine SAND (SP); light brown (7.5YR 6/3), dry, light brown (7.5YR 6/3), poorly graded, trace ~1/4" diameter angular gravel (<10%), very dense.
			<5	NS	Trace silt.
		B-8(2)			No recovery. Cobbles lodged in sampler. Conditions indicate material transitions to SAND (SP); poorly graded with trace cobbles at 6', very dense to hard.
5					
			<5	NS	SAND with silt (SM); light brown (7.5YR 6/3), slightly moist, very dense, (70% fine to medium-grained sand, 15% silt, 15% angular to subangular gravel, ~1/4" diameter).
		B-8(3)	<5	NS	
10					Boring Refusal at 9.5' BGS.
15					

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3015 SW First Avenue
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Regency Cascade Plaza
Everett, Washington

Boring Number: **B-9**

Project Number: **REGEN-043**
Logged By: J. Mattecheck
Date: April 27, 2016
Site Conditions: Indoors
Drilling Contractor: Cascade
Drilling Equipment: Limited Access Geoprobe
Sampler Type: Push-Probe
Depth to Water (ATD): --
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
			<5	NS	Concrete slab (4") over GRAVEL with fines (GM); gray (7.5YR 6/1), dry, loose to medium dense, (70% medium to fine-grained sand, 30% angular to subangular gravels, ~1/4" diameter).
		B-9(1)	<5	NS	Becomes very dense.
			<5	NS	Fine SAND (SP) with trace silt; light brown (7.5YR 6/3), dry, poorly graded, trace ~1/4" diameter angular to subangular gravel (<10%), very dense.
		B-9(2)	<5	NS	Trace silt.
5					Boring Refusal on Hard Material and Cobbles at 4.2' BGS.
10					
15					

Apex Companies, LLC
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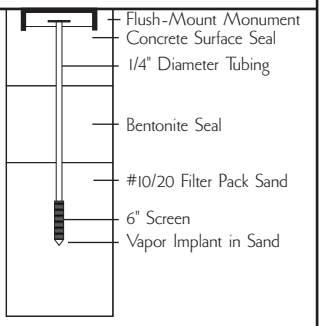
Regency Cascade Plaza
Everett, Washington

Boring Number: **VP-1**

Project Number: **REGEN-043**
Logged By: J. Mattecheck
Date: April 27, 2016
Site Conditions: Indoors
Drilling Contractor: Cascade
Drilling Equipment: Limited Access Geoprobe
Sampler Type: Push-Probe
Depth to Water (ATD): --
Surface Elevation: Not Measured

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
		VP-1(1)	<5	NS	Concrete slab (4") over GRAVEL with fines (GM); gray (7.5YR 6/1), dry, loose to medium dense, (70% medium to fine-grained sand, 30% angular to subangular gravels, ~1/4" diameter).
			<5	NS	Becomes very dense.
			<5	NS	Fine to medium-grained SAND (SP); light brown (7.5YR 6/3), dry, poorly graded, trace ~1/4" diameter angular gravel (<10%), very dense.
		VP-1(2)	<5	NS	
			<5	NS	
5			<5	NS	SAND (SP) with cobbles; light brown (7.5YR 6/3), dry, very stiff to hard, (~50% poorly graded fine sand, 50% ~1.5" diameter rounded cobbles).
					Boring Refusal at 6' BGS.
10					
15					

Vapor Point Construction and Notes:



Apex Companies, LLC
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Portland, Oregon 97201

Regency Cascade Plaza
Everett, Washington

Boring Number: **VP-2**

Project Number: **REGEN-043**
Logged By: J. Mattecheck
Date: April 27, 2016
Site Conditions: Indoors
Drilling Contractor: Cascade
Drilling Equipment: Limited Access Geoprobe
Sampler Type: Push-Probe
Depth to Water (ATD): --
Surface Elevation: Not Measured

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
			<5	NS	Concrete slab (4") over GRAVEL with fines (GM); gray (7.5YR 6/1), dry, loose to medium dense, (70% medium to fine-grained sand, 30% angular to subangular gravels, ~1/4" diameter).
		VP-2(1)	<5	NS	Becomes very dense.
			<5	NS	Fine to medium-grained SAND (SP); light brown (7.5YR 6/3), dry, poorly graded, trace ~1/4" diameter angular gravel (<10%), very dense.
			<5	NS	
		VP-2(2)	<5	NS	
5			<5	NS	SAND (SP) with cobbles; light brown (7.5YR 6/3), dry, very stiff to hard, (~50% poorly graded fine to medium-grained sand, 50% ~1.5" diameter rounded cobbles).
					Boring Refusal at 6' BGS.
10					
15					

Vapor Point Construction and Notes: