



INITIAL OPERATIONS AND MAINTENENCE REPORT

Harbour Point Cleaners Mukilteo Speedway Center 13619 Mukilteo Speedway Lynnwood, Washington 98037

Washington State Department of Ecology

F/S No. 41352598 VCP Project No. NW2902

May 2, 2017

Submitted by: Simon Payne, L.G. ATC Group Services LLC Seattle, Washington 98107 Tel 206-781-1449 simon.payne@atcassociates.com



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OPERATIONS AND MAINTENENCE REPORT (Initial Event, March, 2017)

Harbour Point Cleaners Mukilteo Speedway Center 13619 Mukilteo Speedway Lynnwood, Washington 98037

Washington State Department of Ecology Facility/Site No 41352598 VCP Project No. NW2902

Prepared for:

Weingarten Realty Investors 2600 Citadel Plaza Drive, Suite 300 Houston, Texas 77008

Submitted to:

Ms. Glynis Carrosino
Washington State Department of Ecology
Toxic Cleanup Program, NWRO
3190 160th Avenue SE
Bellevue, Washington 98008-5452

ATC Project No. 282 EM 00171

May 2, 2017

Prepared by:

Simon Payne, L.G. Project Manager

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Reviewed by:

OPERATIONS AND MAINTENANCE REPORT

(Initial Event, March, 2017)

Harbour Point Cleaners 13619 Mukilteo Speedway Lynnwood, Washington 98037

This report summarizes the results of the initial operations and maintenance (O&M) event conducted for Weingarten Realty Investors (WRI) by ATC Group Services, Inc. (ATC) on the sub-slab depressurization (SSD) system installed on January 23, 2017 at the Harbour Point Clearers, a commercial dry cleaning facility located in Suite B-5 of the Mukilteo Speedway Center at 13619 Mukilteo Speedway in Lynnwood, Washington.

The SSD system consists of schedule 40 polyvinyl chloride (PVC) riser pipe plumbed vertically from the sub-slab to a one horse power regenerative blower mounted to the building roof. The vertical riser pipe is secured against a shared wall between the west-adjacent tenant space and the Harbour Point Cleaners tenant spaces and consists of 4-inch diameter pipe from the slab to approximately three feet above grade reduced to 2-inch diameter pipe above. The effluent air is discharged from the blower through a stack constructed of schedule 80 PVC. Effluent air samples are collected from an access port installed directly on the stack. The SSD system was started up at 15:00 on January 23, 2017.

The SSD system was installed in order to mitigate vapor intrusion from underlying soil previously identified as impacted with volatile organic compounds (VOCs) through the concrete floor slab into the building, to reduce risk to human health and the environment, and to further comply with the Model Toxics Control Act (MTCA) and its implementing regulations, Chapter 70.105D of the Revised Code of Washington (RCW) and Chapter 173- 340 of the Washington Administrative Code (WAC). Based on ATC's September 17, 2015 Feasibility Study and Disproportionate Cost Analysis, the Washington State Department of Ecology's (Ecology) April 4, 2016 Opinion Letter, and a June 28, 2016 meeting between Ecology, WRI, and ATC, WRI selected soil vapor extraction through SSD as a viable cleanup alternative that will best protect human health from the potential vapor intrusion migration pathway.

The initial O&M event was conducted on March 13, 2017 in order to assess the performance of the newly installed system after approximately 4 weeks of runtime. The event included the collection of an effluent air sample from the sample port located on the effluent stack, an 8-hour indoor ambient air sample from within the Harbour Point dry cleaning facility (ambient air sample IA-1-031317), and an 8-hour indoor ambient air sample from within the west-adjacent tenant space (ambient air sample IA-2-031317). The sample locations were selected in order to match ambient sample locations IA-01 and IA-02, collected on July 2, 2015. All three samples were collected within 6-liter (L) laboratory certified Summa canisters. The two indoor ambient air samples were equipped with flow regulators that allowed the canisters to remain open for sample collection over an 8-hour period. Laboratory analysis was performed by Fremont Analytical, an Ecology accredited analytical laboratory; each sample was analyzed for VOCs by United States Environmental Protection Agency (EPA) Method TO-15. Air samples are analyzed for those VOCs associated with tetrachloroethene (PCE [tetrachloroethylene, perchloroethylene]), which includes degradation compounds, produced through the de-chlorination of PCE: trichloroethene (trichloroethylene [TCE]), cis-1,2-dichloroethene (cis-1,2-dichloroethylene [cis-DCE]), trans-1,2-dichloroethene (trans1,2-dichloroethylene [trans-DCE]), 1,1-dichloroethene (1,1-dichloroethylene [1,1-DCE]), and vinyl chloride.

Along with vacuum and flow readings, the effluent air sample will be used to monitor the efficiency of the SSD system. Laboratory analytical data and system performance data is summarized below. The ambient indoor air samples will be compared to previous samples in order to assess indoor air quality and compliance with MTCA cleanup levels. A baseline ambient indoor air sampling event was conducted prior to SSD system startup on July 2, 2015 (**Table 1**). The laboratory analytical data from the ambient indoor air samples are also summarized below. Future O&M events are proposed to occur monthly with indoor air sampling to occur quarterly.

OPERATIONS AND MAINTENANCE REPORT

(Initial Event, March, 2017)

Harbour Point Cleaners 13619 Mukilteo Speedway Lynnwood, Washington 98037

SITE INFORMATION:	
ATC Group Services LLC (ATC) Contact Person:	Simon Payne, L.G.
Date of previous monitoring and sampling event:	Initial event; indoor air monitored on July 2, 2015 prior to SSD system startup
Current remediation technique(s):	SSD and Natural Attenuation
SYSTEM PERFORMANCE	
Date(s) monitored and/or sampled:	03/13/17
Blower run time (hours)	1,164
Pipe diameter at pitot tube (inches):	2
Flow (standard cubic feet per minute [SCFM]):	170
Previous flow measurement (SCFM):	Initial event
Vacuum (inches WC):	22
Previous vacuum (inches WC):	Initial event
Estimated Vapor Phase PCE removed this period (lbs.)	0.00447
Estimated Vapor Phase PCE removed previous period (lbs.)	Initial event
EFFLUENT SAMPLE:	
Sample ID:	EFF-031317
Collection method:	6 L Summa Canister
Sample location:	Sample port EFF-1 located on effluent
·	stack
PID reading (parts per million [ppm])	0.6
PCE concentration in (micrograms per cubic meter [µg/m³]):	4.57
Previous event PCE concentration (µg/m³):	Initial event
TCE concentration in (µg/m³):	1.22
Previous event TCE concentration (μg/m³):	Initial event
cis-DCE concentration in (μg/m³):	<0.793
Previous event cis-DCE concentration (μg/m³):	Initial event
trans-DCE concentration in (µg/m³):	<0.793
Previous event trans-DCE concentration (μg/m³):	Initial event
1,1-DCE concentration in (µg/m³):	<0.793
Previous event 1,1-DCE concentration (μg/m³):	Initial event
Vinyl chloride concentration in (μg/m³):	<0.511
Previous event vinyl chloride concentration (µg/m³):	Initial event
AMBIENT AIR SAMPLE (IA-1):	
Sample ID:	IA-1-031317
Collection method:	6 L Summa Canister (over 8 hours)
Sample location:	Harbour Point Cleaners tenant space
PCE concentration in (µg/m³):	2.20
Previous event PCE concentration (µg/m³):	5.46
TCE concentration in (µg/m³):	5.54
Previous event TCE concentration (µg/m³):	7.60
cis-DCE concentration in (μg/m³):	<0.793
Previous event cis-DCE concentration (µg/m³):	<0.0793
trans-DCE concentration in (μg/m³):	<0.793
Previous event trans-DCE concentration (µg/m³):	<0.0238
1,1-DCE concentration in (µg/m³):	<0.793
Previous event 1,1-DCE concentration (µg/m³):	<0.0357
<i>,</i>	

OPERATIONS AND MAINTENANCE REPORT

(Initial Event, March, 2017)

Harbour Point Cleaners 13619 Mukilteo Speedway Lynnwood, Washington 98037

Vinyl chloride concentration in (μg/m³):	<0.511	
Previous event vinyl chloride concentration (µg/m³):	<0.217	

AMBIENT AIR SAMPLE (IA-2):

IA-2-031317
6 L Summa Canister (over 8 hours)
West-adjacent tenant space
<6.46
10.9
<3.41
4.67
<0.252
<0.0793
<0.252
<0.0238
<0.252
<0.0357
<1.62
<0.217

ADDITIONAL INFORMATION AND COMMENTS:

Initial O&M event performed on March 13, 2017 indicates that SSD system is discharging PCE and TCE with concentrations of 4.57 and 1.22 μ g/m³ respectively detected in the effluent air sample collected from the sample port located on the effluent stack. Based on the measured performance parameters, approximately 0.00447 pounds of VOCs have been removed by SSD system since start up.

ATC also collected ambient air samples from locations previously sampled in July, 2015. The ambient air sample collected from inside the Harbour Point Cleaners tenant space (air sample IA-1-031317) indicates reduced ambient concentrations of PCE and TCE with PCE concentrations still below the MTCA Method B Indoor Air Screening Level for PCE of 9.62 μ g/m³, although concentrations of TCE remain above the MTCA Method B Indoor Air Screening Level for TCE of 0.37 μ g/m³. The ambient air sample collected from the adjacent west tenant space (air sample IA-2-031317) did not detect any of the PCE related compounds above laboratory method detection limits.

ATTACHMENTS:

Table 1 Summary of Air Analytical Results - Chlorinated Volatile Organic Compounds

Table 2 Summary of Vapor Extraction Removal Rates

Figure 1 Ambient Air Sample Locations

Appendix A Remediation System O&M Record Sheet

Appendix B Laboratory Analytical Date Report and Chain of Custody Documentation

Simon Payne, L.G.

Washington Licensed Geologist No. 2712

simon.payne@atcassociates.com

Jim Pm

TABLES

Table 1 Summary of Air Analytical Results - Chlorinated Volatile Organic Compounds **Harbour Point Cleaners** 13619 Mukileteo Speedway Lynnwood, Washington ATC Project No. 282 EM 00171

O-mala Lacation	OI- ID	FIRE Time .	October De Co	Select Chlorinated Volatile Organic Compounds (cVOCs) ¹ in ug/m ³								
Sample Location	Sample ID	Fill Time	Sample Date	PCE	TCE	cis-DCE	trans-DCE	1,1-DCE	Vinyl Chloride			
Effluent discharge from sub-slab depressurization system	Eff-031317	Grab	3/13/2017	4.57	1.22	<0.793	<0.793	<0.793	<0.511			
Location IA-1 in Harbour	IA-01	8-Hour	7/2/2015	5.46	7.60	<0.0793	<0.0238	< 0.0357	<0.217			
Point Cleaners tenant space	IA-1-031317	8-Hour	3/13/2017	2.20	5.54	<0.793	<0.793	<0.793	<0.511			
Location IA-2 in tenant	IA-02	8-Hour	7/2/2015	10.9	4.67	<0.0793	<0.0238	< 0.0357	<0.217			
space B5	IA-2-031317	8-Hour	3/13/2017	<6.46	<3.41	<2.52	<2.52	<2.52	<1.62			
2015	MTCA Method B Inc	loor Air Screening	Level	9.62	0.37	16	32	91.43	0.28			

ug/m³=micrograms per cubic meter

ppmv = parts per million by volume

PCE = Tetrachloroethene (Tetrachloroethylene, perchloroethylene)

TCE = Trichloroethene (Trichloroethylene)

cis-DCE = cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)

trans-DCE = trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)

1,1-DCE = 1,1-Dichloroethene (1,1-Dichloroethylene)

MTCA - Washington State Department of Ecology Model Toxics Control Act

Bold denotes concentration at or above regulatory cleanup level

1 = Analytical results by EPA Method TO-15

2 = Analytical results by EPA Method 3C

3= Analytical resutls by gas chromatography/thermal conductivity detector

All analytical results reported in micrograms per cubic meter (µg/m³)

A complete list of VOC data is provided in Appendix B.

NA= No applicable data

Table 2
Summary of Soil Vapor Extraction Removal Rates
Harbour Point Cleaners
13619 Mukileteo Speedway
Lynnwood, Washington
ATC Project No. 282 EM 00171

Sample Date	System Run Time (hrs)	Vacuum (inches WC)	Flow Rate (cfm)	PID (ppm)	PCE ¹ (ppmv)	TCE ¹ (ppmv)	VOC Recovery Rate (lbs/day)	VOC Recovered Per Period (lbs)	Total VOC Recovered (lbs)
01/23/2017 - Initial System Start Up									
3/13/2017	1,164	22	170	0.6	0.000673	0.000226	0.0000913	0.00447	0.00447

Notes:

hrs = hours

inches WC = inches water column

cfm = cubic feet per minute

ppm = parts per million

ppmv = parts per million by volume

PCE = Tetrachloroethene (Tetrachloroethylene, perchloroethylene)

TCE = Trichloroethene (Trichloroethylene)

1 = Analytical results by EPA Method TO-15

NA= No applicable data

3/13/17 Flow rate taken using anemometer probe

Total Daily Emissions are calculated using the following equation:

 $R = (V \times C \times MW \times F1)/(F2 \times F3)$

R = Rate (lb/day)

F1 = minute to day conversion (1,440 min/day)

F2 = Conversion factor (1,000,000/ppm)

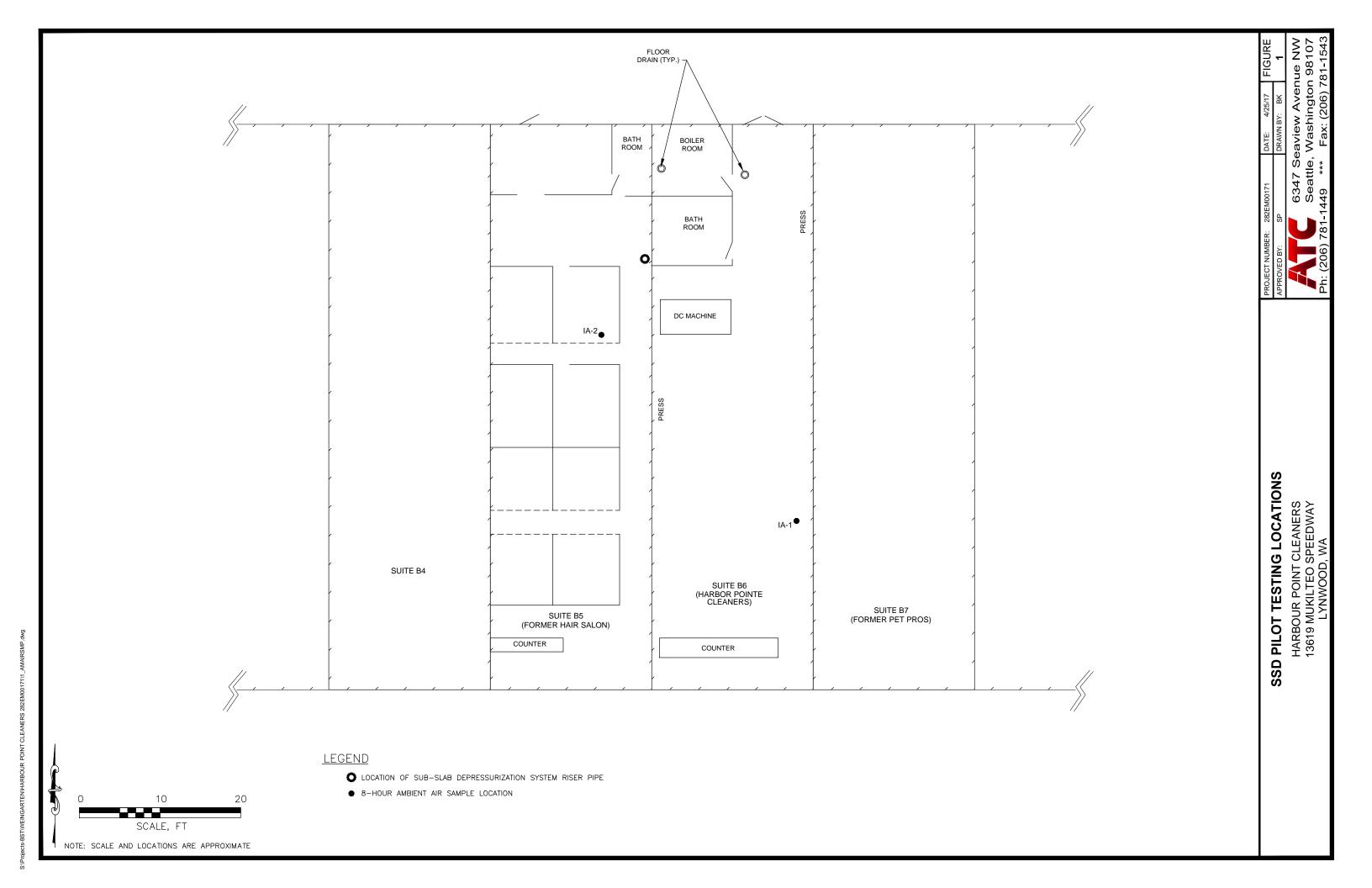
F3 = ideal gas mass conversion (379 ft³/lb-mole)

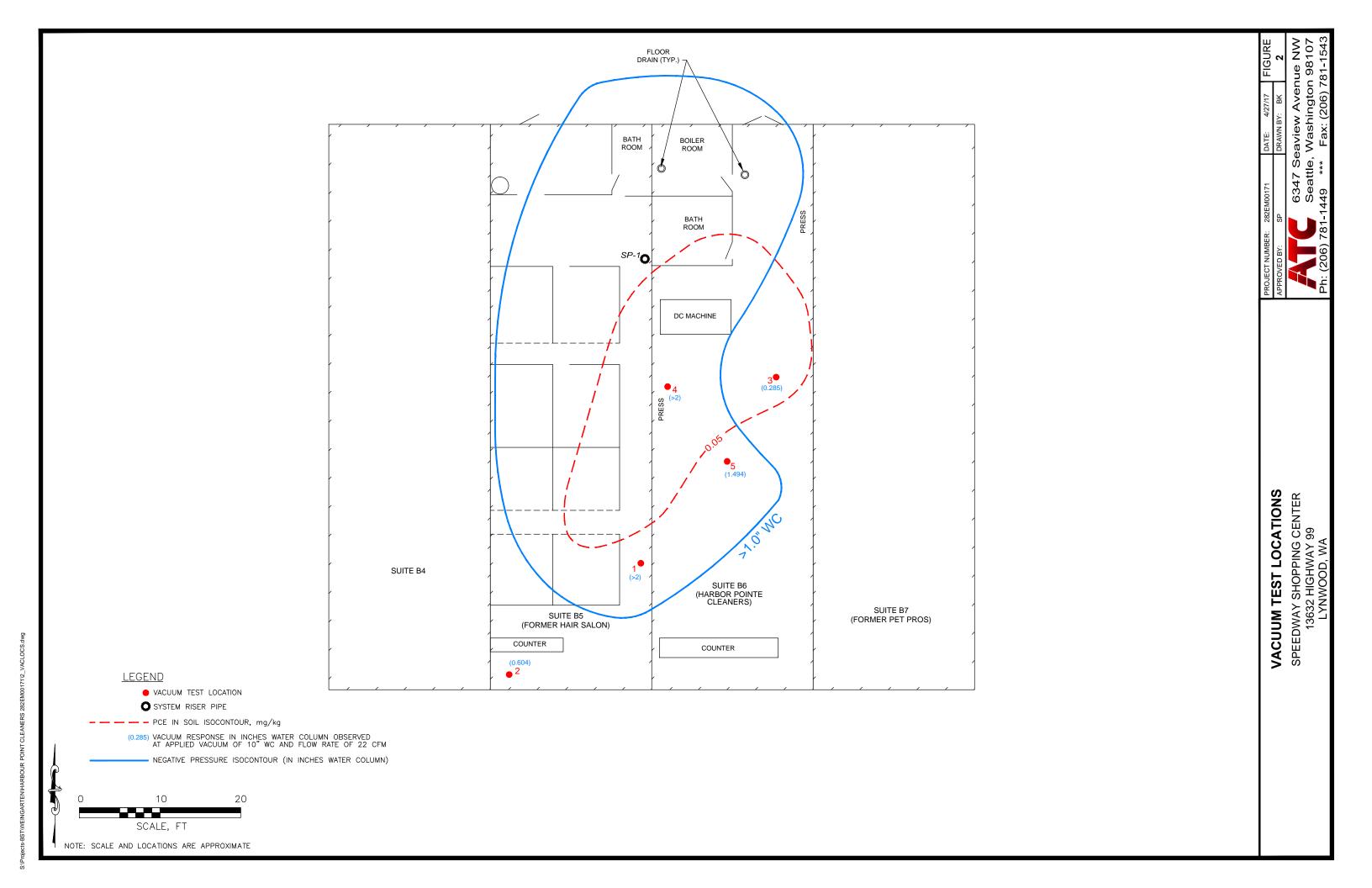
V = Flow rate (cfm) averaged between sampling events.

C = contaminant concentration (ppmv) averaged between the sampling events. Half detection limit used when reported as non-detect. Thus reported levels are conservative.

MW = molecular weight (PCE = 165.83 lb/lb-mole; TCE = 131.39 lb/lb-mole).

FIGURES





APPENDIX A

Remediation System O&M Record Sheet





		AND AND AND AND		00117						
Remediation System O&M Record Sheet										
Note: NEATLY fill in ALL blanks. If not applicable denote with "N/A". If not recorded denote with "NR".										
Date: 03/13/17	Site ID :	H&S Plan Expir								
Arrival 0900	_ Departure Time:	1100			Fire Extinguisher E	xpiration Date: None				
Project No.:	282EM00171				_ Task No.	:1				
Lo	cation (address, city):	13619 Mukilteo Spee	edway	Lynwood, Snohomis	sh County	Washington				
Weather Conditions:	Rain									
Employee(s):	5. F	Payne		Initial:	57	_(Note: All on-site employees must sign HASP)				
	System op	perating upon arrival:	Yes	No	If No, explain					
			Screened	Sampled Air	1					
		ck all that apply "X"):								
Electrical	Hour Meter Reading:	~ 1,16	4 hrs							
Sample Port ID:	FLOW	Flow	VACUUM	PID	Pipe Dia.					
Sample Port ID.	DIFF. PRESSURE (in. WC)	SCFM	(in. WC)	(ppm)	(inches)					
EFF 1	NR	170	22	0.6	2					
Comments:	- 1	measure		and hel	d anen	nometer				
The Real Property of the Party	031317		Cleaning	Shace						
			cent we	st space						
PID Calibration: Battery Check OK?	Zero Adjust OK?	Calibration	Gas (PPM)	Reading (PPM)	Leak Check	Comments				
V	V	100 ppm isol	outylene	100	Y	PRINTER AND				
Model # : Mini R	3000	Serial # : 592 - 0	906538							

Laboratory A	APPENDIX B Analytical Data Report and Chain of	Custody Document
·	·	·
Project No. 282 EM 00171		ATC Group Services LLC



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

ATC Group Services, Inc.

Simon Payne 6347 Seaview Ave NW Seattle, WA 98107

RE: Harbour Point Cleaners Work Order Number: 1703152

March 21, 2017

Attention Simon Payne:

Fremont Analytical, Inc. received 3 sample(s) on 3/14/2017 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

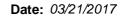
- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward Project Manager





CLIENT: ATC Group Services, Inc. Work Order Sample Summary

Project: Harbour Point Cleaners

Work Order: 1703152

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1703152-001	IA-1-031317	03/13/2017 9:30 AM	03/14/2017 9:37 AM
1703152-002	IA-2-031317	03/13/2017 9:35 AM	03/14/2017 9:37 AM
1703152-003	EFF-031317	03/13/2017 1:00 PM	03/14/2017 9:37 AM



Case Narrative

WO#: **1703152**Date: **3/21/2017**

CLIENT: ATC Group Services, Inc.

Project: Harbour Point Cleaners

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Original



Qualifiers & Acronyms

WO#: **1703152**

Date Reported: 3/21/2017

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WorkOrder: 1703152

Project: Harbour Point Cleaners

 Client Sample ID:
 IA-1-031317
 Date Sampled:
 3/13/2017

 Lab ID:
 1703152-001A
 Date Received:
 3/14/2017

Sample Type: Summa Canister

Analyte	Concer	ntration	Reportii	ng Limit	Qual	Method	Date/Analyst	
Volatile Organic Compounds by EF	PA Method TO	<u>)-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	03/17/2017	ВС
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	03/17/2017	ВС
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	03/17/2017	ВС
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	03/17/2017	ВС
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	03/17/2017	ВС
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	03/17/2017	ВС
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	03/17/2017	ВС
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	03/17/2017	ВС
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	03/17/2017	ВС
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	03/17/2017	ВС
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	03/17/2017	ВС
1,4-Dichlorobenzene	0.859	5.16	0.300	1.80		EPA-TO-15	03/17/2017	ВС
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	03/17/2017	ВС
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	03/17/2017	ВС
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	03/17/2017	ВС
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	03/17/2017	ВС
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	03/17/2017	ВС
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	03/17/2017	ВС
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	03/17/2017	ВС
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	03/17/2017	ВС
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	03/17/2017	ВС
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	03/17/2017	ВС
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	03/17/2017	ВС
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50	*	EPA-TO-15	03/17/2017	ВС
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	03/17/2017	ВС
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	03/17/2017	ВС
Tetrachloroethene (PCE)	0.324	2.20	0.300	2.03		EPA-TO-15	03/17/2017	ВС
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	03/17/2017	ВС
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	03/17/2017	ВС
Trichloroethene (TCE)	1.03	5.54	0.200	1.07		EPA-TO-15	03/17/2017	ВС



WorkOrder: 1703152

Project: Harbour Point Cleaners

 Client Sample ID:
 IA-1-031317
 Date Sampled:
 3/13/2017

 Lab ID:
 1703152-001A
 Date Received:
 3/14/2017

Sample Type: Summa Canister

Analyte	Concen	Concentration		Reporting Limit		Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.569	3.20	0.300	1.69		EPA-TO-15	03/17/2017	ВС
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	03/17/2017	ВС
Surr: 4-Bromofluorobenzene	80.6 %Rec		70-130			EPA-TO-15	03/17/2017	ВС
NOTES:								

NOTES:

^{* -} Flagged value is not within established control limits.



WorkOrder: 1703152

Project: Harbour Point Cleaners

 Client Sample ID:
 IA-2-031317
 Date Sampled:
 3/13/2017

 Lab ID:
 1703152-002A
 Date Received:
 3/14/2017

Sample Type: Summa Canister

Analyte	Concer	ntration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by Ef	PA Method TO	<u>)-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1,1-Trichloroethane	< 0.635	<3.46	0.635	3.46		EPA-TO-15	03/17/2017	ВС
1,1,2,2-Tetrachloroethane	< 0.952	<6.54	0.952	6.54		EPA-TO-15	03/17/2017	ВС
CFC-113	<1.59	<12.2	1.59	12.2		EPA-TO-15	03/17/2017	ВС
1,1,2-Trichloroethane (TCA)	<1.59	<8.66	1.59	8.66		EPA-TO-15	03/17/2017	ВС
1,1-Dichloroethane	< 0.635	<2.57	0.635	2.57		EPA-TO-15	03/17/2017	ВС
1,1-Dichloroethene (DCE)	< 0.635	<2.52	0.635	2.52		EPA-TO-15	03/17/2017	ВС
1,2,4-Trichlorobenzene	< 0.952	<7.07	0.952	7.07		EPA-TO-15	03/17/2017	ВС
1,2-Dichlorobenzene	<1.59	<9.54	1.59	9.54		EPA-TO-15	03/17/2017	ВС
1,2-Dichloroethane	< 0.635	<2.57	0.635	2.57		EPA-TO-15	03/17/2017	ВС
1,2-Dichloropropane	<1.59	<7.34	1.59	7.34		EPA-TO-15	03/17/2017	вс
1,3-Dichlorobenzene	< 0.952	<5.73	0.952	5.73		EPA-TO-15	03/17/2017	ВС
1,4-Dichlorobenzene	< 0.952	<5.73	0.952	5.73		EPA-TO-15	03/17/2017	вс
Benzyl chloride	<1.59	<8.22	1.59	8.22		EPA-TO-15	03/17/2017	ВС
Dichlorobromomethane	<0.952	<6.38	0.952	6.38		EPA-TO-15	03/17/2017	ВС
Carbon tetrachloride	< 0.635	<3.99	0.635	3.99		EPA-TO-15	03/17/2017	ВС
Chlorobenzene	< 0.635	<2.92	0.635	2.92		EPA-TO-15	03/17/2017	ВС
Dibromochloromethane	<1.59	<13.5	1.59	13.5		EPA-TO-15	03/17/2017	ВС
Chloroethane	<1.59	<4.19	1.59	4.19		EPA-TO-15	03/17/2017	ВС
Chloroform	< 0.635	<3.10	0.635	3.10		EPA-TO-15	03/17/2017	ВС
Chloromethane	<1.59	<3.28	1.59	3.28		EPA-TO-15	03/17/2017	ВС
cis-1,2-Dichloroethene	< 0.635	<2.52	0.635	2.52		EPA-TO-15	03/17/2017	ВС
cis-1,3-dichloropropene	<1.59	<7.20	1.59	7.20		EPA-TO-15	03/17/2017	ВС
Dichlorodifluoromethane (CFC-12)	< 0.952	<4.71	0.952	4.71		EPA-TO-15	03/17/2017	ВС
Dichlorotetrafluoroethane (CFC-114)	<1.59	<11.1	1.59	11.1	*	EPA-TO-15	03/17/2017	ВС
Hexachlorobutadiene	<3.17	<33.9	3.17	33.9		EPA-TO-15	03/17/2017	ВС
Methylene chloride	<4.76	<16.5	4.76	16.5		EPA-TO-15	03/17/2017	ВС
Tetrachloroethene (PCE)	<0.952	<6.46	0.952	6.46		EPA-TO-15	03/17/2017	ВС
trans-1,2-Dichloroethene	< 0.635	<2.52	0.635	2.52		EPA-TO-15	03/17/2017	вс
trans-1,3-dichloropropene	<1.59	<7.20	1.59	7.20		EPA-TO-15	03/17/2017	вс
Trichloroethene (TCE)	<0.635	<3.41	0.635	3.41		EPA-TO-15	03/17/2017	вс



WorkOrder: 1703152

Project: Harbour Point Cleaners

Client Sample ID: IA-2-031317 **Date Sampled:** 3/13/2017 Lab ID: 1703152-002A **Date Received:** 3/14/2017

Sample Type: Summa Canister

Analyte	Concen	Concentration		Reporting Limit		Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	<0.952	<5.35	0.952	5.35		EPA-TO-15	03/17/2017	ВС
Vinyl chloride	< 0.635	<1.62	0.635	1.62		EPA-TO-15	03/17/2017	ВС
Surr: 4-Bromofluorobenzene	78.5 %Rec		70-130			EPA-TO-15	03/17/2017	ВС
NOTES:								

^{* -} Flagged value is not within established control limits.



WorkOrder: 1703152

Project: Harbour Point Cleaners

 Client Sample ID:
 EFF-031317
 Date Sampled:
 3/13/2017

 Lab ID:
 1703152-003A
 Date Received:
 3/14/2017

Sample Type: Summa Canister

Analyte	Concer	ntration	Reportii	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by EF	PA Method TO	<u>)-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	03/17/2017	ВС
1,1,2,2-Tetrachloroethane	< 0.300	<2.06	0.300	2.06		EPA-TO-15	03/17/2017	ВС
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	03/17/2017	ВС
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	03/17/2017	ВС
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	03/17/2017	ВС
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	03/17/2017	ВС
1,2,4-Trichlorobenzene	< 0.300	<2.23	0.300	2.23		EPA-TO-15	03/17/2017	ВС
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	03/17/2017	ВС
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	03/17/2017	ВС
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	03/17/2017	ВС
1,3-Dichlorobenzene	< 0.300	<1.80	0.300	1.80		EPA-TO-15	03/17/2017	ВС
1,4-Dichlorobenzene	0.696	4.19	0.300	1.80		EPA-TO-15	03/17/2017	ВС
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	03/17/2017	ВС
Dichlorobromomethane	< 0.300	<2.01	0.300	2.01		EPA-TO-15	03/17/2017	ВС
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	03/17/2017	ВС
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	03/17/2017	ВС
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	03/17/2017	ВС
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	03/17/2017	ВС
Chloroform	0.497	2.43	0.200	0.977		EPA-TO-15	03/17/2017	ВС
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	03/17/2017	ВС
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	03/17/2017	ВС
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	03/17/2017	ВС
Dichlorodifluoromethane (CFC-12)	< 0.300	<1.48	0.300	1.48		EPA-TO-15	03/17/2017	ВС
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50	*	EPA-TO-15	03/17/2017	ВС
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	03/17/2017	ВС
Methylene chloride	23.7	82.4	10.0	34.7		EPA-TO-15	03/20/2017	ВС
Tetrachloroethene (PCE)	0.673	4.57	0.300	2.03		EPA-TO-15	03/17/2017	ВС
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	03/17/2017	ВС
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	03/17/2017	ВС
Trichloroethene (TCE)	0.226	1.22	0.200	1.07		EPA-TO-15	03/17/2017	ВС



WorkOrder: 1703152

Project: Harbour Point Cleaners

 Client Sample ID:
 EFF-031317
 Date Sampled:
 3/13/2017

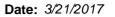
 Lab ID:
 1703152-003A
 Date Received:
 3/14/2017

Sample Type: Summa Canister

Analyte	Concent	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by	EPA Method TO	<u>-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.325	1.83	0.300	1.69		EPA-TO-15	03/17/2017	ВС
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	03/17/2017	ВС
Surr: 4-Bromofluorobenzene	81.6 %Rec		70-130			EPA-TO-15	03/17/2017	ВС
NOTES:								

NOTES:

^{* -} Flagged value is not within established control limits.





Work Order: 1703152

QC SUMMARY REPORT

CLIENT: ATC Group Services, Inc. Project: Harbour Point Cleaners

Volatile Organic Compounds by EPA Method TO-15

Sample ID LCS-R35034	SampType: LCS			Units: ppbv		Prep Dat	te: 3/17/20	17	RunNo: 350)34	
Client ID: LCSW	Batch ID: R35034					Analysis Dat	te: 3/17/20	17	SeqNo: 669	9306	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	3.57	0.300	5.000	0	71.5	70	130				
Chloromethane	3.86	0.500	5.000	0	77.3	70	130				
Dichlorotetrafluoroethane (CFC-114)	3.41	0.500	5.000	0	68.2	70	130				S
Vinyl chloride	3.51	0.200	5.000	0	70.2	70	130				
Trichlorofluoromethane (CFC-11)	3.63	0.300	5.000	0	72.5	70	130				
Chloroethane	3.54	0.500	5.000	0	70.7	70	130				
1,1-Dichloroethene (DCE)	3.83	0.200	5.000	0	76.7	70	130				
Methylene chloride	3.82	1.50	5.000	0	76.3	70	130				
trans-1,2-Dichloroethene	4.14	0.200	5.000	0	82.8	70	130				
1,1-Dichloroethane	3.61	0.200	5.000	0	72.2	70	130				
cis-1,2-Dichloroethene	4.37	0.200	5.000	0	87.5	70	130				
Chloroform	3.59	0.200	5.000	0	71.8	70	130				
1,1,1-Trichloroethane	4.04	0.200	5.000	0	80.9	70	130				
Carbon tetrachloride	4.15	0.200	5.000	0	83.0	70	130				
1,2-Dichloroethane	4.09	0.200	5.000	0	81.9	70	130				
Trichloroethene (TCE)	4.20	0.200	5.000	0	84.1	70	130				
1,2-Dichloropropane	3.86	0.500	5.000	0	77.1	70	130				
Dichlorobromomethane	3.80	0.300	5.000	0	76.0	70	130				
cis-1,3-dichloropropene	3.88	0.500	5.000	0	77.6	70	130				
trans-1,3-dichloropropene	3.84	0.500	5.000	0	76.9	70	130				
1,1,2-Trichloroethane (TCA)	4.06	0.500	5.000	0	81.2	70	130				
Tetrachloroethene (PCE)	5.41	0.300	5.000	0	108	70	130				
Dibromochloromethane	4.62	0.500	5.000	0	92.4	70	130				
Chlorobenzene	4.45	0.200	5.000	0	89.0	70	130				
1,1,2,2-Tetrachloroethane	3.60	0.300	5.000	0	71.9	70	130				
Benzyl chloride	4.91	0.500	5.000	0	98.1	70	130				
1,3-Dichlorobenzene	4.81	0.300	5.000	0	96.2	70	130				
1,4-Dichlorobenzene	4.76	0.300	5.000	0	95.2	70	130				
1,2-Dichlorobenzene	4.77	0.500	5.000	0	95.4	70	130				
1,2,4-Trichlorobenzene	5.75	0.300	5.000	0	115	70	130				
Hexachlorobutadiene	6.25	1.00	5.000	0	125	70	130				

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Date: 3/21/2017



Work Order: 1703152

QC SUMMARY REPORT

CLIENT: ATC Group Services, Inc.

Project: Harbour Point Cleaners

Volatile Organic Compounds by EPA Method TO-15

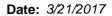
Sample ID LCS-R35034	SampType: LCS			Units: ppbv		Prep Da	te: 3/17/2 0)17	RunNo: 35	034	
Client ID: LCSW	Batch ID: R35034					Analysis Da	te: 3/17/2 0)17	SeqNo: 669	9306	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
CFC-113	4.06	0.500	5.000	0	81.3	70	130				
Surr: 4-Bromofluorobenzene	8.68		10.00		86.8	70	130				

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Sample ID MB-R35034	SampType: MI	BLK		Units: ppbv		Prep Da	ite: 3/17/2 0	017	RunNo: 350	034	
Client ID: MBLKW	Batch ID: R	35034				Analysis Da	ite: 3/17/20	017	SeqNo: 669	9307	
Analyte	Resu	ılt RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	N	D 0.300									
Chloromethane	N	D 0.500									
Dichlorotetrafluoroethane (CFC-114)	N	D 0.500									*
Vinyl chloride	N	D 0.200									
Trichlorofluoromethane (CFC-11)	N	D 0.300									
Chloroethane	N	D 0.500									
1,1-Dichloroethene (DCE)	N	D 0.200									
Methylene chloride	N	D 1.50									
trans-1,2-Dichloroethene	N	D 0.200									
1,1-Dichloroethane	N	D 0.200									
cis-1,2-Dichloroethene	N	D 0.200									
Chloroform	N	D 0.200									
1,1,1-Trichloroethane	N	D 0.200									
Carbon tetrachloride	N	D 0.200									
1,2-Dichloroethane	N	D 0.200									
Trichloroethene (TCE)	N	D 0.200									
1,2-Dichloropropane	N	D 0.500									
Dichlorobromomethane	N	D 0.300									
cis-1,3-dichloropropene	N	D 0.500									
trans-1,3-dichloropropene	N	D 0.500									
1,1,2-Trichloroethane (TCA)	N	D 0.500									
Tetrachloroethene (PCE)	N	D 0.300									

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Work Order: 1703152

QC SUMMARY REPORT

CLIENT: ATC Group Services, Inc. Harbour Point Cleaners Project:

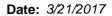
Volatile Organic Compounds by EPA Method TO-15

Sample ID MB-R35034	SampType: MBLK		•	Units: ppbv		Prep Date:	3/17/20	17	RunNo: 35 (034	
Client ID: MBLKW	Batch ID: R35034					Analysis Date:	3/17/20	17	SeqNo: 669	9307	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	0.500									
Chlorobenzene	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
Benzyl chloride	ND	0.500									
1,3-Dichlorobenzene	ND	0.300									
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
CFC-113	ND	0.500									
Surr: 4-Bromofluorobenzene	7.95		10.00		79.5	70	130				
NOTES:											

^{* -} Flagged value is not within established control limits.

Sample ID 1703191-005AREP	SampType:	REP			Units: ppbv		Prep Da	te: 3/18/2 0	017	RunNo: 350	034	
Client ID: BATCH	Batch ID:	R35034					Analysis Da	te: 3/18/2 0	017	SeqNo: 669	9304	
Analyte	R	esult	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)		ND	0.300						0		30	
Chloromethane		ND	0.500						0		30	
Dichlorotetrafluoroethane (CFC-114)		ND	0.500						0		30	*
Vinyl chloride		ND	0.200						0		30	
Trichlorofluoromethane (CFC-11)		ND	0.300						0		30	
Chloroethane		ND	0.500						0		30	
1,1-Dichloroethene (DCE)		ND	0.200						0		30	
Methylene chloride		130	1.50						126.8	2.11	30	E
trans-1,2-Dichloroethene		ND	0.200						0		30	
1,1-Dichloroethane		ND	0.200						0		30	
cis-1,2-Dichloroethene		ND	0.200						0		30	
Chloroform		ND	0.200						0		30	
1,1,1-Trichloroethane		ND	0.200						0		30	

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Work Order: 1703152

QC SUMMARY REPORT

CLIENT: ATC Group Services, Inc. Project: Harbour Point Cleaners

Volatile Organic Compounds by EPA Method TO-15

Sample ID 1703191-005AREP	SampType: REP			Units: ppbv		Prep Da	te: 3/18/2	017	RunNo: 35	034	
Client ID: BATCH	Batch ID: R35034					Analysis Da	te: 3/18/2	017	SeqNo: 66	9304	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	0.200						0		30	
1,2-Dichloroethane	ND	0.200						0		30	
Trichloroethene (TCE)	ND	0.200						0		30	
1,2-Dichloropropane	ND	0.500						0		30	
Dichlorobromomethane	ND	0.300						0		30	
cis-1,3-dichloropropene	ND	0.500						0		30	
trans-1,3-dichloropropene	ND	0.500						0		30	
1,1,2-Trichloroethane (TCA)	ND	0.500						0		30	
Tetrachloroethene (PCE)	ND	0.300						0		30	
Dibromochloromethane	ND	0.500						0		30	
Chlorobenzene	ND	0.200						0		30	
1,1,2,2-Tetrachloroethane	ND	0.300						0		30	
Benzyl chloride	ND	0.500						0		30	
1,3-Dichlorobenzene	ND	0.300						0		30	
1,4-Dichlorobenzene	ND	0.300						0		30	
1,2-Dichlorobenzene	ND	0.500						0		30	
1,2,4-Trichlorobenzene	ND	0.300						0		30	
Hexachlorobutadiene	ND	1.00						0		30	
CFC-113	ND	0.500						0		30	
Surr: 4-Bromofluorobenzene NOTES:	7.64		10.00		76.4	70	130		0		

^{* -} Flagged value is not within established control limits.

Sample ID LCS-R35034	SampType: LCS			Units: ppbv		Prep Da	te: 3/20/2 0)17	RunNo: 350)34	
Client ID: LCSW	Batch ID: R35034					Analysis Da	te: 3/20/20	17	SeqNo: 669	9663	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	4.08	1.50	5.000	0	81.6	70	130				
Tetrachloroethene (PCE)	5.64	0.300	5.000	0	113	70	130				
Surr: 4-Bromofluorobenzene	8.70		10.00		87.0	70	130				

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Sample Log-In Check List

C	lient Name:	ATC	Work Order Numb	per: 1703152	
Lo	ogged by:	Erica Silva	Date Received:	3/14/2017	9:37:00 AM
<u>Cha</u>	in of Cust	ody			
1.	Is Chain of C	ustody complete?	Yes 🗹	No \square	Not Present
2.	How was the	sample delivered?	Client		
<u>Log</u>	<u>ı In</u>				
3.	Coolers are p	present?	Yes	No 🗸	NA \square
			Air Samples		
4.	Shipping con	tainer/cooler in good condition?	Yes 🗸	No \square	
5.		ls present on shipping container/cooler? nments for Custody Seals not intact)	Yes	No 🗌	Not Required ✓
6.	Was an atten	npt made to cool the samples?	Yes	No 🗌	NA 🗹
7.	Were all item	is received at a temperature of >0°C to 10.0°C*	Yes	No 🗆	NA 🗹
8.	Sample(s) in	proper container(s)?	Yes 🗸	No 🗌	
9.	Sufficient sar	mple volume for indicated test(s)?	Yes 🗸	No \square	
10.	Are samples	properly preserved?	Yes 🗸	No \square	
11.	Was preserva	ative added to bottles?	Yes	No 🗸	NA \square
12.	Is there head	space in the VOA vials?	Yes	No \square	NA 🗹
13.	Did all sampl	es containers arrive in good condition(unbroken)?	Yes 🗹	No 🗌	
14.	Does paperw	ork match bottle labels?	Yes 🗸	No 🗌	
15.	Are matrices	correctly identified on Chain of Custody?	Yes 🗹	No 🗌	
16.	Is it clear wha	at analyses were requested?	Yes 🗸	No 🗌	
17.	Were all hold	ling times able to be met?	Yes 🗹	No 🗌	
<u>Spe</u>	cial Handl	ing (if applicable)			
18.	Was client no	otified of all discrepancies with this order?	Yes 🗸	No 🗌	NA 🗆
	Person	Notified: Simon Pavne Date		3/14/2017	
	By Who	m: Erica Silva Via:	✓ eMail ☐ Pho	one Fax [☐ In Person
	Regardi	ng: Low volume for IA-2-031317			
	Client Ir	nstructions: Proceed			

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Original

(specify)					×						×
Same Day	Date/Time	Date		ed (Received			Date/Time		Ç	Relinquished
Next Day	4/2017 0937	コピ	/	ر ^	× \		4:37	14/17 09:37	03/	1	×
2 Day	Date/Time	Date		ed	Received			Date/Time		5	Relinquished
3 рау	I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.	above and that I	Client named	alf of the	lytical on beh	remont Ana	nent with F	to this Agreenis Agreement	ed to enter in backside of the	I represent that I am authorized to enter into this Agreen of the terms on the front and backside of this Agreement.	I represent th
Standard		TB = Tedlar Bag	tTube TB=T	S = Sorbent Tube	F = Filter	sure Cylinder	CYL = High Pressure Cylinder	CAN = Canister	ottle Vac CAN	es: BV = 1 Liter Bottle Vac	** Container Codes:
Turn-Around Time:					Gas	S = Subslab / Soil Gas		r Air L = Landfill	IA = Indoor Air	AA = Ambient Air	* Matrix Codes:
	<u>a</u>	Pressure Pressur	Pressure Date				8	Date Time	Canister Flow Reg		v
	0	Pressure Pressur	Pressure Date					Date	Canister Flow Reg		.43
3/14 -6	TO-15 CVOCS	30 T	10 mTorr Pressure 3/1/17 15:00 Date	σ	6L Grab	CAN	STATE OF STA	03/13/17 500:81	17649 Canister Flow Reg	21218	£4-031317
3/14 -24	TO-15 CVOCS	30 12 12 18:00	10 mTorr Pressure 3/1/17 15:00 Date		6L 8hr	CAN	dir	03/13/13/20 Air C	15901 Canistar FR8-15 Flow Reg	031317	1A-2-031317
8- 1118	70-15 CVOCS	29 7 09:30 18:00	10 mTorr Pressure 3/1/17 15:00 Date		6L 8hr	CAN	alir alir	05/13/17 09:30	eg e	IA-1-031317	1A-1-
Final Pressure ("Hg)	Analysis Requested	Field Initial Field Final Sample Sample Pressure Pressure (" Hg) (" Hg)	Internal Initial Evacuation Pressure (mtorr)	ne Flow Rate	Sample Fill Time	Container Type **	Sample Type (Matrix) *	Sample Date & Time	Canister / Flow Reg Serial #	Name	Sample Name
	es.com	Email (PM): Simon, Dayne @ at cassociates	ecato	Dayn	simon	mail (PM):			1543	187	Fax: 206
			Payre	<u>2</u>	Reports to (PM): SiMON	Reports to (PN			1449	206 481 1449	Telephone: 2
		Sishop	الم ز	me/	collected by: 5 Payne	collected by:		7018p	WA	Seattle WA	e, Zip:
Pa		wood, WA	1, Lynnwood	my ge	Location: 13632 Hwy 99	ocation:		Ave Nu	Seaview	6347 5	Address:
age			EM 000171	N 00	282 E	Project No: 282			/ices	ATC Group Services	Client:
16 of	Special Remarks:	Cleaners		4 7	Project Name: Harbour Point	roject Name:	Fux: 200-332-7170		analyaca	4	
16	Laboratory Project No (Internal): 70315	of:	Page:		13/17	Date: 03/13/17			9	remo	
s Agreement	d & Laboratory Services Agreement	ody Record	Air Chain of Custod	Chain	Air		3600 Fremont Ave N.	3600 Fren			A D