



August 7, 2020

Ms. Linda Michalets
Wisconsin Department of Natural Resources
2300 N Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212-3128

Sent via email only to Linda.Michalets@wisconsin.gov

Re: One Hour Fabricare DERF Site
4704 W. Burleigh Street
Milwaukee, Wisconsin
BRRS No. 02-41-548391

Subject: Vapor Results from Indoor, Subslab, and Ambient Air

Dear Ms. Michalets:

The former One Hour Fabricare drycleaning and gas station property at 4704 W. Burleigh Street (Property) has an on-going environmental repair case. Extensive soil, groundwater, and vapor testing was previously completed, and the Site Investigation is nearly complete.

Based on historic chemistry results, the Wisconsin Department of Natural Resources (WDNR) required testing of the site and two neighboring properties for potential vapor intrusion.

Sand Creek Consultants, Inc. (Sand Creek) was hired to respond to the WDNR request for vapor evaluation. This report documents findings from the results of the vapor sampling conducted in June 2020.

Scope of Work and Methods

After approval from the WDNR and obtaining signed access agreements from the adjacent property owners, the following work was completed on June 10 and 11, 2020. Sample locations are shown on **Figure 1**.

- One subslab vapor probe/grab sample, one indoor air sample, and one background ambient air sample were obtained from the Property at 4704 W. Burleigh Street, Milwaukee.
- Two subslab vapor probes/grab samples were installed and sampled from the adjacent commercial property west of the Property at 4714-4716 W. Burleigh Street, Milwaukee.
- One subslab vapor probe/grab sample and one indoor crawlspace vapor sample was obtained from the adjacent residence north of the Property at 3119 N. 47th Street, Milwaukee.
- The results were summarized, compared to relevant standards, and the information was sent to the property owners per WDNR requirements.

Photographs of all sample locations are enclosed.

Details regarding the vapor probe installations and sampling are provided below:

Vapor Probe Installation and Abandonment

Upon gaining access to the building/sampling location, the vapor probes were installed using an electric hammer drill that advanced a 5/8-inch diameter hole through the concrete floor, extending approximately 1 inch into the underlying subsurface unconsolidated material. A stainless steel Cox-Colvin vapor pin® (vapor pin®) sampler with a silicon sleeve was inserted into the hole using the installation tool to create a tight seal.

Upon completion of sampling, the vapor pin® was entirely removed from the floor, and the floor penetration was sealed using hydraulic cement.

Subslab Vapor Sampling

Sampling of vapors was performed using a 6-liter laboratory-provided Summa canister with a 30-minute regulator. The canister was connected to the vapor pin® using a brass tee-piece with valves and tygon tubing as shown in the enclosed photographs.

After connection of the tubing to the Summa canister, the connections were verified airtight using a hand pump that evacuated air to approximately 12 PSI, and the vacuum was held for approximately 3 minutes to verify tight connections were in place.

The vapor pin® subslab air was purged prior to sampling using a peristaltic pump. The valves were configured to allow communication with the subslab air and not the Summa canister, and approximately 300 cc per minute of air was evacuated from the subsurface using the peristaltic pump. During purging, the exhaust air was monitored using a photoionization detector. Readings are discussed in the results section.

After purging, the valves were configured to allow direct connection of the vapor pin® to the Summa Canister. Water was placed around the vapor pin® floor penetration as a water dam, to prevent leaking of air into the vapor pin® floor penetration opening. A photograph of the vapor pin® water dam assembly is included in the photolog.

The vapor canister was opened, and the water level in the water dam maintained above the vapor pin® tubing connection for the approximately 30-minute duration of the sampling. The evacuated vapor pressure in the canister was recorded before and after sampling, and after 30 minutes, the canister was closed and the sampling complete.

The vapor pin® assembly was disconnected, the pin removed, and the floor penetration sealed with hydraulic cement.

Indoor Air Sampling

The laboratory-provided 6-liter Summa canister and 8-hour or 24-hour regulator were placed at the sample location, with the intake valve placed at a height 20 inches above grade in the basement crawlspace, and 50 inches above grade at the Property sample location. The initial and final vacuum readings were recorded as the sampler collected vapors over the required time frame. Upon sampling, the valve was closed, ending sample collection.

Ambient Air Sampling

One ambient air sample was obtained from the northwest corner of the 4704 W. Burleigh building roof. The sample was collected using a laboratory-provided 6-liter Summa canister with an 8-hour regulator. During the sample collection period, rain began, and the sampler inlet was protected with a cardboard box and plastic to protect the intake while still allowing air intake. Photographs of the ambient air sample location are enclosed.

Laboratory Analytical Methods

Upon collection, the samples were shipped to Pace Laboratories, in St. Paul, Minnesota and analyzed for 10 compounds using the Environmental Protection Agency (EPA) TO-15 analytical method. The tested analytes include tetrachloroethene (PCE), trichloroethene (TCE), cis- 1,2-dichloroethene (DCE), vinyl chloride (VC), benzene, ethylbenzene, toluene, xylenes, and naphthalene. These compounds include the drycleaning compound (PCE) and related degradation products, and typical components of gasoline and petroleum products.

Results

Field Observations

Sample details are summarized in the table below:

ID	Type	Location/Datum	Date and Time	Thickness Concrete	Purge Field PID (ppm)	Comments
Drycleaner Subslab	Subslab; 30-minute	4.1'E, 12.75' S of NW Corner	6/11/20 12:17 to 12:47	9"	1.5	4704 W Burleigh Street, Sampled at former drycleaning machine
Drycleaner Indoor Air	Indoor Air, 8-hour	5.5'E, 14.S of NW Corner, Intake Height 3.5'	6/10/20 8:45 to 16:35	NA	0.4	Commercial Building (retail convenience store), samples at former dryclean machine. Stored goods (boxes and plastic beverages) surround sample location.
Background Ambient Air	Outside, 8-hour	On Roof, 3'E, 2'S of NW Corner	6/10/20 8:52 to 16:31	NA	0.0	Rain last 1 hour of sample, protected intake with cardboard/plastic shield
4714 Basement Subslab N	Subslab; 30-minute	11'S, 10'W of NE Corner	6/10/20 12:51 to 13:21	3.5"	0.1	Vacant commercial retail store ground level, vacant apartments on second floor. Basement concrete floor, 8' depth, cement block walls. Some moisture on floor but not at sample locations.
4714 Basement Subslab S	Subslab; 30-minute	41'S, 8'W of NE Corner	6/10/20 13:30 to 14:02	3.5"	1.0	
3119 Subslab	Subslab; 30-minute	2.5' S, 1.25' E of N/S Basement Block Wall	6/11/20 12:17 to 12:47	2"	0.5	Residential concrete block crawlspace extends under entire home, 3' height. Spray foam insulation on inside of all exterior walls. Thin concrete floor
3119 Crawlspace	Indoor Air, 24-hour	6'E, 10'N of SW Corner Building; 20" Intake	6/10 9:00 to 6/11 9:54	NA	0.4	

Laboratory Results

The **laboratory analytical results** are enclosed and summarized on **Table 1**. The results indicate the following:

1. The Commercial Property at 4714-4716 W. Burleigh Street does not have any detections of tested compounds above standards in the basement subslab air.
2. The Residential Property at 3119 N. 47th Street does not have any elevated detections of tested compounds in the subslab crawlspace air, but it does have elevated levels of two compounds, naphthalene and tetrachloroethene (PCE) – the drycleaning solvent – in the air within the crawlspace. The crawlspace extends beneath the entire residence to a depth of approximately 3 feet below the building flooring, and the space is vacant. The crawlspace provides access to some utilities (cable, water), but it is not occupied or used for storage. The poured concrete floor of the crawlspace is only a few inches thick, but is in good condition. There is spray-on foam-type insulation on the interior walls of the entire crawlspace cement block walls, which potentially could off-gas some of the observed chemicals, particularly naphthalene, since the subslab vapors do not contain elevated concentrations of these tested compounds.
3. The Property (former gas station and drycleaner convenience store) at 4704 W. Burleigh Street does not have any detections of tested compounds above standards in the indoor air. The subslab air at the approximate location of the former drycleaning machine has elevated concentrations of PCE, above standards for subslab vapor at a Commercial Building.
4. The ambient outside air obtained from the northwest corner roof of the former drycleaner at 4704 W. Burleigh Street did not have detectable concentrations of any drycleaning compounds, and only trace amounts of petroleum compounds, far below any action levels.
5. In letters dated July 16, 2020, the sample results were provided to the Property owner and Property occupant, plus both of the off-site property owners, in a letter that was sent via email and/or mail.

Recommendations

Based on the findings and email correspondence with the WDNR, the following steps are recommended.

1. No further action is required for the 4714-4716 building.
2. Further testing is needed for the 3119 N. 47th Street residence. Another crawlspace ambient sample and an indoor air sample from the occupied residential space should be obtained. Both of these samples should be 24-hour samples, with analysis for the same 10 compounds as previously evaluated. The crawlspace sample location should be the same as the previous location. The indoor air sample should be obtained from the approximate breathing height (3 to 4 feet) in a frequently occupied location, such as the bedroom, kitchen table, or TV room. Cleansers, paints, solvents, fingernail polish, and other products that may contain the tested chemicals should be removed from the test area and placed in the garage or sealed in air-tight containers during the testing.

If the results indicate no impacts above residential standards are found in either sample, no further action will be needed for the house.

If results indicate elevated levels of chemicals are observed, it may be necessary to vent the 3119 Crawlspace with a radon-type low-flow fan.

3. The indoor air of the former drycleaner indicates results are acceptable from a health standpoint for occupancy. Based on these results, if desired, the tenant of the store can seek a permit from the City of Milwaukee to handle food in the building.
4. The subsurface vapors at the former drycleaning machine at the Property indicate steps should be taken to prevent subslab vapors from entering the building. A subslab vapor mitigation system should be installed, or preferably a more aggressive remedial action should be implemented to reduce the presence of known contaminant mass beneath the floor.
5. The Property has environmental needs beyond merely addressing the vapor migration pathway, which ideally would include contaminant source removal followed by evaluation of contaminant trends over time in the groundwater. Installation of additional test borings to define the extent of downgradient impacts in groundwater are also necessary.

Historically, reimbursement under the Drycleaner Environmental Repair Fund (DERF) has been a primary consideration during pursuit of the project activities. However, current WDNR revenue projections indicate it is unlikely the DERF fund will have adequate revenue to reimburse further work at DERF sites across the state before the sunset date of June 30, 2032. Revenue is declining, and existing claims in line for reimbursement already push the projected payment dates to the year 2030. Instead, it may be wise to proceed with site environmental activities now, in conjunction with the vapor mitigation testing and remedy, without delays related to satisfying requirements for a likely insolvent DERF program.

A discussion should be held with the WDNR and Property owner/building occupant to understand the best use of the limited funds that are available for this project.

I look forward to hearing from you regarding the next steps on this project.

SAND CREEK CONSULTANTS, INC.



Kendrick Ebbott, PG
Project Manager

Via email only

Enclosures: Table 1: Vapor Chemistry Results
Figure 1: Vapor Sample Locations June 10 and 11, 2020
Photographs of Vapor Sampling
Laboratory Analytical Report

cc/enc: Mr. Tom McKay, via email only, Tmck602@gmail.com
Mr. Hani Ahmad, via email only, Hani2991@gmail.com

Table 1
Vapor Chemistry Results
Former One Hour Fabricare and Adjacent Commercial and Residential Structures
4704 W. Burleigh Avenue
Milwaukee, Wisconsin

Indoor Air Vapor Samples ($\mu\text{g}/\text{m}^3$)

Sample ID	Location	Date	Benzene	cis-1,2-Dichloroethene	Ethyl benzene	Naphthalene	Tetrachloroethene (PCE)	Toluene	Trichloroethene (TCE)	Vinyl Chloride	m & p-Xylene separately	o-Xylenes	Conclusions
Indoor Air Vapor Action Levels¹													
Small Commercial Standards			16	--	49	3.6	180	22,000	8.8	28	440	440	
Ambient (8-hour)	Former Drycleaner Roof at 4704 W. Burleigh	6/10/2020	<0.19	<0.17	0.24 J	<1.9	<0.40	3.1	<0.33	<0.14	0.87 J	0.35 J	Ambient Air has no Drycleaning Chemicals
Indoor Air 4704 W. Burleigh (8-hour)	At Former Drycleaning Machine, 3.5' height	6/10/2020	2.6	<0.17	1.8	<1.9	4.9	9.5	<0.33	<0.14	6.5	2.1	Indoor Air of Former Drycleaner meets Standards
Residential Standards			3.6	--	11	0.83	42	5,200	2.1	1.7	100	100	
Crawlspace 3119 N 47th St. (24-hour)	6' E, 10' N of SW Corner of Crawlspace beneath residence; 1.7' Height in 3' Space	6/10-11/2020	<0.19	<0.17	0.31 J	136	227	2.3	<0.33	<0.14	1.1 J	1.2 J	Crawlspace of Adjacent Residence has elevated PCE and Naphthalene. Levels are higher than observed in subslab

Sub-Slab Vapor Samples ($\mu\text{g}/\text{m}^3$)

Sample ID	Location	Date	Benzene	cis-1,2-Dichloroethene	Ethyl benzene	Naphthalene	Tetrachloroethene (PCE)	Toluene	Trichloroethene (TCE)	Vinyl Chloride	n, m, o-Xylene separately	Xylenes mix	Conclusions
Sub-Slab Vapor Screening Levels²													
Small Commercial Standards			530	--	1,600	120	6,000	730,000	290	930	15,000	15,000	
Subslab Drycleaner 4704 W Burleigh (30 min. grab)	Subslab at Former Dry Cleaning Machine	6/11/2020	4.0	3.1	3.7	<2.3	8,460	74.3	104	<0.17	11.0	3.9	Subslab Air at Former Dryclean Machine has elevated PCE, But Indoor Air Is below Standards
Subslab North 4716 W. Burleigh (30 min. Grab)	Subslab of Commercial Building Basement to West	6/10/2020	2.2	<0.21	2.8	<2.3	943	108	16.3	<0.27	10.7	3.9	Subslab Air of Adjacent Parcel to West meets Standards
Subslab South 4716 W. Burleigh (30 min. Grab)		6/10/2020	3.6	2.5	3.2	<3.5	42.2	116	27.7	<0.17	8.6	3.0	
Residential Standards			120	--	370	28	1,400	170,000	70	57	3,300	3,300	
Subslab 3119 N 47th (30 min. Grab)	Beneath Cement Floor, 2.5' S, 1.25' E of Crawlspace Entry NW Internal Wall at Closet Entryway	6/11/2020	3.7	<0.22	3.6	<2.4	77	109	<0.41	<0.18	11.4	4.0	Subslab Air at Adjacent Residence to North meets Standards

Notes:

¹ Wisconsin Vapor Quick Look-UP Table Indoor Air Vapor Action Levels based on **November 2017 USEPA Regional Screening Levels** [http://dnr.wi.gov/topic/Brownfields/documents/vapor/vapor-quick.pdf].

² Screening level for Residential/Small Commercial Buildings (attenuation factor of 0.03).

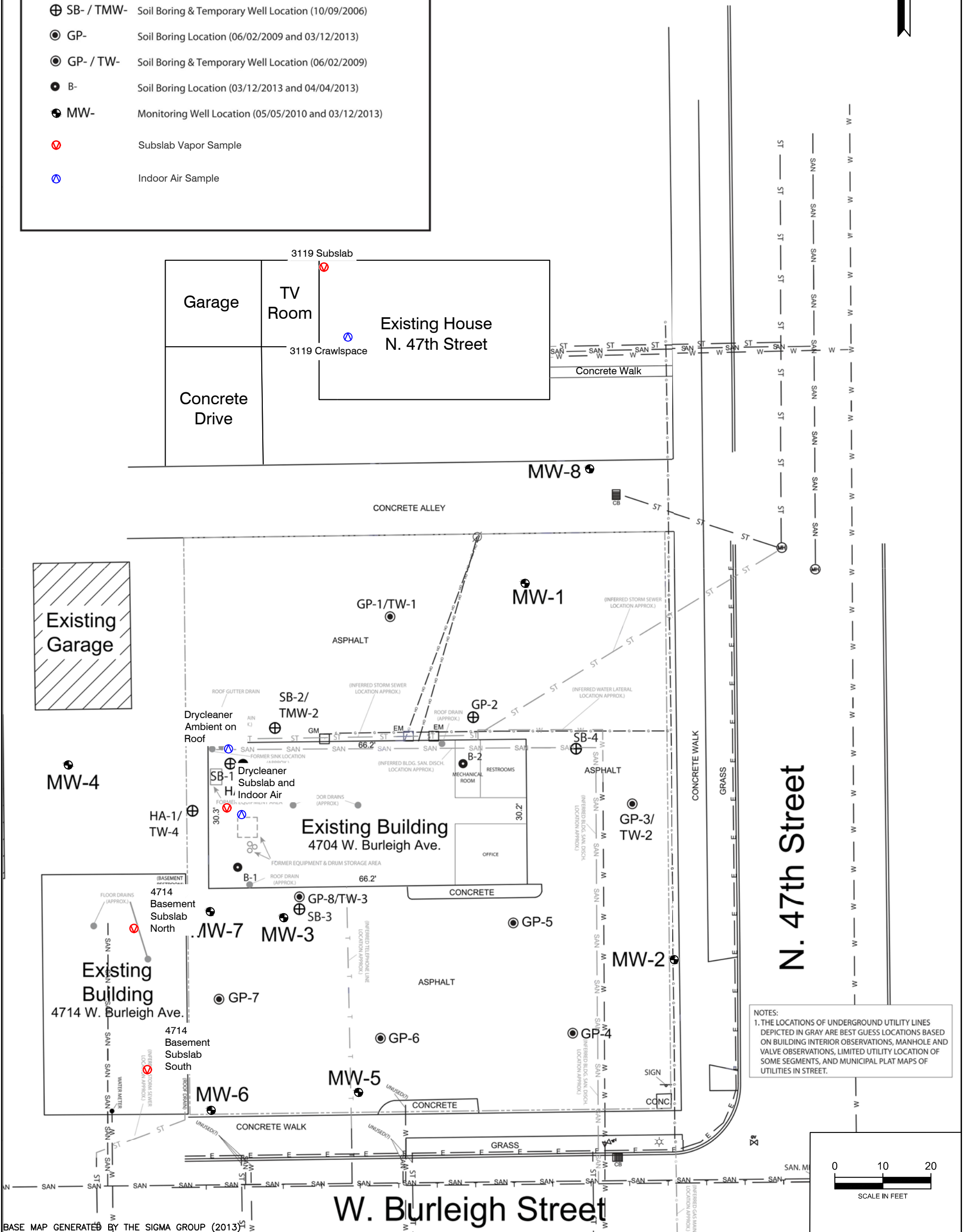
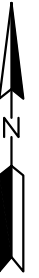
$\mu\text{g}/\text{m}^3$: micrograms per cubic meter.

<0.22 = Substance not detected above indicated detection limit.

Bold indicate concentration exceeds associated Vapor Action Level for Setting.

J = Analyte was detected but is below the reporting limit. The concentration is estimated.

LEGEND	
●	SSV- Sub-Slab Vapor Sample Location
⊕	HA- / TW- Hand Auger Boring & Temporary Well Location (06/02/2009)
⊕	SB- Soil Boring Location (10/09/2006)
⊕	SB- / TMW- Soil Boring & Temporary Well Location (10/09/2006)
⊙	GP- Soil Boring Location (06/02/2009 and 03/12/2013)
⊙	GP- / TW- Soil Boring & Temporary Well Location (06/02/2009)
●	B- Soil Boring Location (03/12/2013 and 04/04/2013)
⊕	MW- Monitoring Well Location (05/05/2010 and 03/12/2013)
⊖	Subslab Vapor Sample
⊕	Indoor Air Sample



	VAPOR SAMPLE LOCATIONS JUNE 10 AND 11, 2020		FORMER ONE HOUR FABRICARE 4704 WEST BURLEIGH STREET MILWAUKEE, WISCONSIN	
	DATE:	AUGUST 2020	DRAWN BY:	ASR
SCALE:	1"=20'	APPROVED BY:	XX	FIGURE 1

**One Hour Fabricare
Vapor Sampling – June 2020
4704 W. Burleigh Street
Milwaukee, Wisconsin**



Photo #1 Subslab Vapor Sample at 4704 W. Burleigh Avenue.



Photo #2 Indoor Air Sample at 4704 W. Burleigh Avenue.

**One Hour Fabricare
Vapor Sampling - June 2020
4704 W. Burleigh Street
Milwaukee, Wisconsin**



Photo #3 Subslab Vapor Sampling at 4714-4716 W. Burleigh Avenue, North Sample.



Photo #4 Subslab Vapor Sampling at 4714-4716 W. Burleigh Avenue. South Sample obtained in lower center of photograph.

**One Hour Fabricare
Vapor Sampling - June 2020
4704 W. Burleigh Street
Milwaukee, Wisconsin**



Photo #5 Subslab Vapor Sampling in crawlspace at 3119 N. 47th Street residence.



Photo #6 Indoor Air Vapor Sampling in crawlspace at 3119 N. 47th Street residence.

***One Hour Fabricare
Vapor Sampling - June 2020
4704 W. Burleigh Street
Milwaukee, Wisconsin***



Photo #7 Ambient Air Sampling on roof of 4704 W. Burleigh Avenue building.

June 18, 2020

Ken Ebbott
Sand Creek Consultants
W5877 Pheasant Lane
Plymouth, WI 53073

RE: Project: ONE HOUR FABRICARE
Pace Project No.: 10521568

Dear Ken Ebbott:


Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: ONE HOUR FABRICARE
Pace Project No.: 10521568

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01	Minnesota Petrofund Certification #: 1240
Alabama Certification #: 40770	Mississippi Certification #: MN00064
Alaska Contaminated Sites Certification #: 17-009	Missouri Certification #: 10100
Alaska DW Certification #: MN00064	Montana Certification #: CERT0092
Arizona Certification #: AZ0014	Nebraska Certification #: NE-OS-18-06
Arkansas DW Certification #: MN00064	Nevada Certification #: MN00064
Arkansas WW Certification #: 88-0680	New Hampshire Certification #: 2081
California Certification #: 2929	New Jersey Certification #: MN002
CNMI Saipan Certification #: MP0003	New York Certification #: 11647
Colorado Certification #: MN00064	North Carolina DW Certification #: 27700
Connecticut Certification #: PH-0256	North Carolina WW Certification #: 530
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Dakota Certification #: R-036
Florida Certification #: E87605	Ohio DW Certification #: 41244
Georgia Certification #: 959	Ohio VAP Certification #: CL101
Guam EPA Certification #: MN00064	Oklahoma Certification #: 9507
Hawaii Certification #: MN00064	Oregon Primary Certification #: MN300001
Idaho Certification #: MN00064	Oregon Secondary Certification #: MN200001
Illinois Certification #: 200011	Pennsylvania Certification #: 68-00563
Indiana Certification #: C-MN-01	Puerto Rico Certification #: MN00064
Iowa Certification #: 368	South Carolina Certification #: 74003001
Kansas Certification #: E-10167	Tennessee Certification #: TN02818
Kentucky DW Certification #: 90062	Texas Certification #: T104704192
Kentucky WW Certification #: 90062	Utah Certification #: MN00064
Louisiana DEQ Certification #: 03086	Vermont Certification #: VT-027053137
Louisiana DW Certification #: MN00064	Virginia Certification #: 460163
Maine Certification #: MN00064	Washington Certification #: C486
Maryland Certification #: 322	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01
Minnesota Dept of Ag Certification #: via MN 027-053-137	

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521568001	AMBIENT AIR DRYCLEANER ROOF	Air	06/10/20 16:31	06/15/20 11:10
10521568002	INDOOR DRYCLEANER	Air	06/10/20 16:35	06/15/20 11:10
10521568003	4714 BURLEIGH SUBSLAB VP-N	Air	06/10/20 13:21	06/15/20 11:10
10521568004	4714 BURLEIGH SUBSLAB VP-S	Air	06/10/20 14:02	06/15/20 11:10
10521568005	3119 N 47TH CRAWL SPACE	Air	06/11/20 09:54	06/15/20 11:10
10521568006	DRYCLEANER SUBSLAM DCM	Air	06/11/20 12:47	06/15/20 11:10
10521568007	3119 N 47TH SUBSLAB CRAW SPACE	Air	06/11/20 11:24	06/15/20 11:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521568001	AMBIENT AIR DRYCLEANER ROOF	TO-15	MJL	10	PASI-M
10521568002	INDOOR DRYCLEANER	TO-15	MJL	10	PASI-M
10521568003	4714 BURLEIGH SUBSLAB VP-N	TO-15	MJL	10	PASI-M
10521568004	4714 BURLEIGH SUBSLAB VP-S	TO-15	AC1, MJL	10	PASI-M
10521568005	3119 N 47TH CRAWL SPACE	TO-15	MJL	10	PASI-M
10521568006	DRYCLEANER SUBSLAM DCM	TO-15	MJL	10	PASI-M
10521568007	3119 N 47TH SUBSLAB CRAW SPACE	TO-15	MJL	10	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
10521568001	AMBIENT AIR DRYCLEANER ROOF					
TO-15	Ethylbenzene	0.24J	ug/m3	1.3	06/16/20 16:49	
TO-15	Toluene	3.1	ug/m3	1.1	06/16/20 16:49	
TO-15	m&p-Xylene	0.87J	ug/m3	2.6	06/16/20 16:49	
TO-15	o-Xylene	0.35J	ug/m3	1.3	06/16/20 16:49	
10521568002	INDOOR DRYCLEANER					
TO-15	Benzene	2.6	ug/m3	0.48	06/16/20 17:45	
TO-15	Ethylbenzene	1.8	ug/m3	1.3	06/16/20 17:45	
TO-15	Tetrachloroethene	4.9	ug/m3	1.0	06/16/20 17:45	
TO-15	Toluene	9.5	ug/m3	1.1	06/16/20 17:45	
TO-15	m&p-Xylene	6.5	ug/m3	2.6	06/16/20 17:45	
TO-15	o-Xylene	2.1	ug/m3	1.3	06/16/20 17:45	
10521568003	4714 BURLEIGH SUBSLAB VP-N					
TO-15	Benzene	3.6	ug/m3	0.90	06/16/20 18:41	
TO-15	cis-1,2-Dichloroethene	2.5	ug/m3	2.2	06/16/20 18:41	
TO-15	Ethylbenzene	3.2	ug/m3	2.5	06/16/20 18:41	
TO-15	Tetrachloroethene	42.2	ug/m3	1.9	06/16/20 18:41	
TO-15	Toluene	116	ug/m3	2.1	06/16/20 18:41	
TO-15	Trichloroethene	27.7	ug/m3	1.5	06/16/20 18:41	
TO-15	m&p-Xylene	10.7	ug/m3	4.9	06/16/20 18:41	
TO-15	o-Xylene	3.9	ug/m3	2.5	06/16/20 18:41	
10521568004	4714 BURLEIGH SUBSLAB VP-S					
TO-15	Benzene	2.2	ug/m3	0.59	06/16/20 19:09	
TO-15	Ethylbenzene	2.8	ug/m3	1.6	06/16/20 19:09	
TO-15	Tetrachloroethene	943	ug/m3	8.4	06/18/20 00:48	
TO-15	Toluene	108	ug/m3	1.4	06/16/20 19:09	
TO-15	Trichloroethene	16.3	ug/m3	1.0	06/16/20 19:09	
TO-15	m&p-Xylene	8.6	ug/m3	3.2	06/16/20 19:09	
TO-15	o-Xylene	3.0	ug/m3	1.6	06/16/20 19:09	
10521568005	3119 N 47TH CRAWL SPACE					
TO-15	Ethylbenzene	0.31J	ug/m3	1.3	06/16/20 19:37	
TO-15	Naphthalene	136	ug/m3	4.0	06/16/20 19:37	
TO-15	Tetrachloroethene	227	ug/m3	1.0	06/16/20 19:37	
TO-15	Toluene	2.3	ug/m3	1.1	06/16/20 19:37	
TO-15	m&p-Xylene	1.1J	ug/m3	2.6	06/16/20 19:37	
TO-15	o-Xylene	1.2J	ug/m3	1.3	06/16/20 19:37	
10521568006	DRYCLEANER SUBSLAM DCM					
TO-15	Benzene	4.0	ug/m3	0.58	06/16/20 20:05	
TO-15	cis-1,2-Dichloroethene	3.1	ug/m3	1.4	06/16/20 20:05	
TO-15	Ethylbenzene	3.7	ug/m3	1.6	06/16/20 20:05	
TO-15	Tetrachloroethene	8460	ug/m3	296	06/17/20 11:30	
TO-15	Toluene	74.3	ug/m3	1.4	06/16/20 20:05	
TO-15	Trichloroethene	104	ug/m3	0.98	06/16/20 20:05	
TO-15	m&p-Xylene	11.0	ug/m3	3.2	06/16/20 20:05	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521568006	DRYCLEANER SUBSLAM DCM					
TO-15	o-Xylene	3.9	ug/m3	1.6	06/16/20 20:05	
10521568007	3119 N 47TH SUBSLAB CRAW SPACE					
TO-15	Benzene	3.7	ug/m3	0.61	06/16/20 20:33	
TO-15	Ethylbenzene	3.6	ug/m3	1.7	06/16/20 20:33	
TO-15	Tetrachloroethene	77.4	ug/m3	1.3	06/16/20 20:33	
TO-15	Toluene	109	ug/m3	1.4	06/16/20 20:33	
TO-15	m&p-Xylene	11.4	ug/m3	3.3	06/16/20 20:33	
TO-15	o-Xylene	4.0	ug/m3	1.7	06/16/20 20:33	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

Method: TO-15

Description: TO15 MSV AIR

Client: Sand Creek Consultants

Date: June 18, 2020

General Information:

7 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ONE HOUR FABRICARE
Pace Project No.: 10521568

Sample: AMBIENT AIR Lab ID: **10521568001** Collected: 06/10/20 16:31 Received: 06/15/20 11:10 Matrix: Air
DRYCLEANER ROOF

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	<0.19	ug/m3	0.48	0.19	1.49		06/16/20 16:49	71-43-2	
cis-1,2-Dichloroethene	<0.17	ug/m3	1.2	0.17	1.49		06/16/20 16:49	156-59-2	
Ethylbenzene	0.24J	ug/m3	1.3	0.21	1.49		06/16/20 16:49	100-41-4	
Naphthalene	<1.9	ug/m3	4.0	1.9	1.49		06/16/20 16:49	91-20-3	
Tetrachloroethene	<0.40	ug/m3	1.0	0.40	1.49		06/16/20 16:49	127-18-4	
Toluene	3.1	ug/m3	1.1	0.25	1.49		06/16/20 16:49	108-88-3	
Trichloroethene	<0.33	ug/m3	0.81	0.33	1.49		06/16/20 16:49	79-01-6	
Vinyl chloride	<0.14	ug/m3	0.77	0.14	1.49		06/16/20 16:49	75-01-4	
m&p-Xylene	0.87J	ug/m3	2.6	0.50	1.49		06/16/20 16:49	179601-23-1	
o-Xylene	0.35J	ug/m3	1.3	0.22	1.49		06/16/20 16:49	95-47-6	

Sample: INDOOR DRYCLEANER Lab ID: **10521568002** Collected: 06/10/20 16:35 Received: 06/15/20 11:10 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	2.6	ug/m3	0.48	0.19	1.49		06/16/20 17:45	71-43-2	
cis-1,2-Dichloroethene	<0.17	ug/m3	1.2	0.17	1.49		06/16/20 17:45	156-59-2	
Ethylbenzene	1.8	ug/m3	1.3	0.21	1.49		06/16/20 17:45	100-41-4	
Naphthalene	<1.9	ug/m3	4.0	1.9	1.49		06/16/20 17:45	91-20-3	
Tetrachloroethene	4.9	ug/m3	1.0	0.40	1.49		06/16/20 17:45	127-18-4	
Toluene	9.5	ug/m3	1.1	0.25	1.49		06/16/20 17:45	108-88-3	
Trichloroethene	<0.33	ug/m3	0.81	0.33	1.49		06/16/20 17:45	79-01-6	
Vinyl chloride	<0.14	ug/m3	0.77	0.14	1.49		06/16/20 17:45	75-01-4	
m&p-Xylene	6.5	ug/m3	2.6	0.50	1.49		06/16/20 17:45	179601-23-1	
o-Xylene	2.1	ug/m3	1.3	0.22	1.49		06/16/20 17:45	95-47-6	

Sample: 4714 BURLEIGH SUBSLAB Lab ID: **10521568003** Collected: 06/10/20 13:21 Received: 06/15/20 11:10 Matrix: Air
VP-N

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	3.6	ug/m3	0.90	0.36	2.78		06/16/20 18:41	71-43-2	
cis-1,2-Dichloroethene	2.5	ug/m3	2.2	0.32	2.78		06/16/20 18:41	156-59-2	
Ethylbenzene	3.2	ug/m3	2.5	0.38	2.78		06/16/20 18:41	100-41-4	
Naphthalene	<3.5	ug/m3	7.4	3.5	2.78		06/16/20 18:41	91-20-3	
Tetrachloroethene	42.2	ug/m3	1.9	0.75	2.78		06/16/20 18:41	127-18-4	
Toluene	116	ug/m3	2.1	0.48	2.78		06/16/20 18:41	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

Sample: **4714 BURLEIGH SUBSLAB VP-N** Lab ID: **10521568003** Collected: 06/10/20 13:21 Received: 06/15/20 11:10 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Trichloroethene	27.7	ug/m3	1.5	0.61	2.78		06/16/20 18:41	79-01-6	
Vinyl chloride	<0.27	ug/m3	1.4	0.27	2.78		06/16/20 18:41	75-01-4	
m&p-Xylene	10.7	ug/m3	4.9	0.94	2.78		06/16/20 18:41	179601-23-1	
o-Xylene	3.9	ug/m3	2.5	0.41	2.78		06/16/20 18:41	95-47-6	

Sample: **4714 BURLEIGH SUBSLAB VP-S** Lab ID: **10521568004** Collected: 06/10/20 14:02 Received: 06/15/20 11:10 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Benzene	2.2	ug/m3	0.59	0.24	1.83		06/16/20 19:09	71-43-2	
cis-1,2-Dichloroethene	<0.21	ug/m3	1.5	0.21	1.83		06/16/20 19:09	156-59-2	
Ethylbenzene	2.8	ug/m3	1.6	0.25	1.83		06/16/20 19:09	100-41-4	
Naphthalene	<2.3	ug/m3	4.9	2.3	1.83		06/16/20 19:09	91-20-3	
Tetrachloroethene	943	ug/m3	8.4	3.3	12.26		06/18/20 00:48	127-18-4	
Toluene	108	ug/m3	1.4	0.31	1.83		06/16/20 19:09	108-88-3	
Trichloroethene	16.3	ug/m3	1.0	0.40	1.83		06/16/20 19:09	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.95	0.17	1.83		06/16/20 19:09	75-01-4	
m&p-Xylene	8.6	ug/m3	3.2	0.62	1.83		06/16/20 19:09	179601-23-1	
o-Xylene	3.0	ug/m3	1.6	0.27	1.83		06/16/20 19:09	95-47-6	

Sample: **3119 N 47TH CRAWL SPACE** Lab ID: **10521568005** Collected: 06/11/20 09:54 Received: 06/15/20 11:10 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Benzene	<0.19	ug/m3	0.48	0.19	1.49		06/16/20 19:37	71-43-2	
cis-1,2-Dichloroethene	<0.17	ug/m3	1.2	0.17	1.49		06/16/20 19:37	156-59-2	
Ethylbenzene	0.31J	ug/m3	1.3	0.21	1.49		06/16/20 19:37	100-41-4	
Naphthalene	136	ug/m3	4.0	1.9	1.49		06/16/20 19:37	91-20-3	
Tetrachloroethene	227	ug/m3	1.0	0.40	1.49		06/16/20 19:37	127-18-4	
Toluene	2.3	ug/m3	1.1	0.25	1.49		06/16/20 19:37	108-88-3	
Trichloroethene	<0.33	ug/m3	0.81	0.33	1.49		06/16/20 19:37	79-01-6	
Vinyl chloride	<0.14	ug/m3	0.77	0.14	1.49		06/16/20 19:37	75-01-4	
m&p-Xylene	1.1J	ug/m3	2.6	0.50	1.49		06/16/20 19:37	179601-23-1	
o-Xylene	1.2J	ug/m3	1.3	0.22	1.49		06/16/20 19:37	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

Sample: DRYCLEANER SUBSLAM **Lab ID:** 10521568006 Collected: 06/11/20 12:47 Received: 06/15/20 11:10 Matrix: Air
DCM

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	4.0	ug/m3	0.58	0.23	1.79		06/16/20 20:05	71-43-2	
cis-1,2-Dichloroethene	3.1	ug/m3	1.4	0.21	1.79		06/16/20 20:05	156-59-2	
Ethylbenzene	3.7	ug/m3	1.6	0.25	1.79		06/16/20 20:05	100-41-4	
Naphthalene	<2.3	ug/m3	4.8	2.3	1.79		06/16/20 20:05	91-20-3	
Tetrachloroethene	8460	ug/m3	296	115	429.6		06/17/20 11:30	127-18-4	
Toluene	74.3	ug/m3	1.4	0.31	1.79		06/16/20 20:05	108-88-3	
Trichloroethene	104	ug/m3	0.98	0.40	1.79		06/16/20 20:05	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.93	0.17	1.79		06/16/20 20:05	75-01-4	
m&p-Xylene	11.0	ug/m3	3.2	0.61	1.79		06/16/20 20:05	179601-23-1	
o-Xylene	3.9	ug/m3	1.6	0.26	1.79		06/16/20 20:05	95-47-6	

Sample: 3119 N 47TH SUBSLAB **Lab ID:** 10521568007 Collected: 06/11/20 11:24 Received: 06/15/20 11:10 Matrix: Air
CRAW SPACE

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	3.7	ug/m3	0.61	0.24	1.87		06/16/20 20:33	71-43-2	
cis-1,2-Dichloroethene	<0.22	ug/m3	1.5	0.22	1.87		06/16/20 20:33	156-59-2	
Ethylbenzene	3.6	ug/m3	1.7	0.26	1.87		06/16/20 20:33	100-41-4	
Naphthalene	<2.4	ug/m3	5.0	2.4	1.87		06/16/20 20:33	91-20-3	
Tetrachloroethene	77.4	ug/m3	1.3	0.50	1.87		06/16/20 20:33	127-18-4	
Toluene	109	ug/m3	1.4	0.32	1.87		06/16/20 20:33	108-88-3	
Trichloroethene	<0.41	ug/m3	1.0	0.41	1.87		06/16/20 20:33	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.97	0.18	1.87		06/16/20 20:33	75-01-4	
m&p-Xylene	11.4	ug/m3	3.3	0.63	1.87		06/16/20 20:33	179601-23-1	
o-Xylene	4.0	ug/m3	1.7	0.28	1.87		06/16/20 20:33	95-47-6	

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QUALITY CONTROL DATA

Project: ONE HOUR FABRICARE
Pace Project No.: 10521568

QC Batch: 681428 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10521568001, 10521568002, 10521568003, 10521568004, 10521568005, 10521568006, 10521568007

METHOD BLANK: 3646261 Matrix: Air
Associated Lab Samples: 10521568001, 10521568002, 10521568003, 10521568004, 10521568005, 10521568006, 10521568007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/m3	<0.065	0.16	06/16/20 11:03	
cis-1,2-Dichloroethene	ug/m3	<0.058	0.40	06/16/20 11:03	
Ethylbenzene	ug/m3	<0.069	0.44	06/16/20 11:03	
m&p-Xylene	ug/m3	<0.17	0.88	06/16/20 11:03	
Naphthalene	ug/m3	<0.64	1.3	06/16/20 11:03	
o-Xylene	ug/m3	<0.074	0.44	06/16/20 11:03	
Tetrachloroethene	ug/m3	<0.13	0.34	06/16/20 11:03	
Toluene	ug/m3	<0.086	0.38	06/16/20 11:03	
Trichloroethene	ug/m3	<0.11	0.27	06/16/20 11:03	
Vinyl chloride	ug/m3	<0.048	0.26	06/16/20 11:03	MN

LABORATORY CONTROL SAMPLE: 3646262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	33.5	35.3	105	70-133	
cis-1,2-Dichloroethene	ug/m3	41.6	39.2	94	70-132	
Ethylbenzene	ug/m3	45.6	41.0	90	70-142	
m&p-Xylene	ug/m3	91.2	80.6	88	70-141	
Naphthalene	ug/m3	57.7	55.7	97	63-130	
o-Xylene	ug/m3	45.5	39.8	87	70-135	
Tetrachloroethene	ug/m3	71	74.4	105	70-136	
Toluene	ug/m3	39.5	38.1	96	70-136	
Trichloroethene	ug/m3	56.3	60.1	107	70-132	
Vinyl chloride	ug/m3	26.7	22.0	82	68-141	

SAMPLE DUPLICATE: 3647419

Parameter	Units	10521568001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/m3	<0.19	<0.19			25
cis-1,2-Dichloroethene	ug/m3	<0.17	<0.17			25
Ethylbenzene	ug/m3	0.24J	0.24J			25
m&p-Xylene	ug/m3	0.87J	0.91J			25
Naphthalene	ug/m3	<1.9	<1.9			25
o-Xylene	ug/m3	0.35J	0.34J			25
Tetrachloroethene	ug/m3	<0.40	<0.40			25
Toluene	ug/m3	3.1	3.3	7		25
Trichloroethene	ug/m3	<0.33	<0.33			25

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

SAMPLE DUPLICATE: 3647419

Parameter	Units	10521568001 Result	Dup Result	RPD	Max RPD	Qualifiers
Vinyl chloride	ug/m3	<0.14	<0.14		25	

SAMPLE DUPLICATE: 3647420

Parameter	Units	10521568002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/m3	2.6	2.7	4	25	
cis-1,2-Dichloroethene	ug/m3	<0.17	<0.17		25	
Ethylbenzene	ug/m3	1.8	1.7	4	25	
m&p-Xylene	ug/m3	6.5	6.8	4	25	
Naphthalene	ug/m3	<1.9	<1.9		25	
o-Xylene	ug/m3	2.1	2.1	1	25	
Tetrachloroethene	ug/m3	4.9	5.5	11	25	
Toluene	ug/m3	9.5	10.2	7	25	
Trichloroethene	ug/m3	<0.33	<0.33		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ONE HOUR FABRICARE

Pace Project No.: 10521568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521568001	AMBIENT AIR DRYCLEANER ROOF	TO-15	681428		
10521568002	INDOOR DRYCLEANER	TO-15	681428		
10521568003	4714 BURLEIGH SUBSLAB VP-N	TO-15	681428		
10521568004	4714 BURLEIGH SUBSLAB VP-S	TO-15	681428		
10521568005	3119 N 47TH CRAWL SPACE	TO-15	681428		
10521568006	DRYCLEANER SUBSLAM DCM	TO-15	681428		
10521568007	3119 N 47TH SUBSLAB CRAW SPACE	TO-15	681428		

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WO#: 10521568



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: SAND CREEK Address: W 5877 Phlegant Lane Email To: Lyneth W 53073 Project Name: Ken, Esbott's Sand-Creek-Gas Phone: 918 9024 Requested Due Date/TAT:		Section B Required Project Information: Report To: SAME Copy To: Purchase Order No.: Project Name: ONE HOUR FABRICARE Project Number:		Section C Invoice Information: Attention: TOM MCKAY Company Name: ONE HOUR FABRICARE Address: 601 OAKWOOD DRIVE THIONSVILLE Pace Quote Reference: ANNUAL - \$200/SAMPLE w/ regular Pace Project Manager/Sales Rep: Pace Profile #:		45273 Page: 1 of 1	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE TBS Tedlar Bag 1LC 1 Liter Summa Can 6LC 6 Liter Summa Can LVP Low Volume Puff HVP High Volume Puff PHTO Other		Method: PM10 30 - Fixed Gas (%) TO-14 TO-15 Full List VOCs TO-15 Short List Chloro TO-15 Short List Ether TO-15 Short List Other		Reporting Units mg/m ³ <input checked="" type="checkbox"/> ngr/m ³ <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV <input type="checkbox"/> Other <input type="checkbox"/>	
# ITEM 1 AMBIENT AIR DRYCLEANER ROOF 2 INDOOR DRYCLEANER 3 4714 BURLEIGH SUBSLAB VP-N 4 4714 BURLEIGH SUBSLAB VP-S 5 3119 N 47TH CRAWLSPACE 6 DRYCLEANER SUBSLAB DCM 7 3119 N 47TH SUBSLAB CRAWLSPACE		COLLECTED MEDIA CODE PID Reading (Client only) COMPOSITE START DATE TIME COMPOSITE END DATE TIME		Canister Pressure (Initial Field - In Hg) Canister Pressure (Final Field - In Hg) Summa Can Number Flow Control Number		Report Level: II III IV Other Program: DCRF UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act Voluntary Clean Up <input checked="" type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other <input type="checkbox"/>	
Comments: Run All for: PCE, TCE, DCE, VC B, E, T, X, and Naphthalene		RELINQUISHED BY / AFFILIATION Tom Esbott / SAND CREEK DATE 6-10-2008 6-10-2008 6-10-2008 6-10-2008 6-10-2009 6-11-2008 6-11-2010		ACCEPTED BY / AFFILIATION Tom Esbott / Pace DATE 6-10-2008 6-10-2008 6-10-2008 6-10-2008 6-11-2008 6-11-2010		SAMPLE CONDITIONS Temp in C Received on Ice Custody Sealed Cooler Samples Intact	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: KEN ESBOTT SIGNATURE of SAMPLER: <i>Ken Esbott</i> DATE Signed (MM/DD/YY): 6/11/20		ORIGINAL		X-See list in comments		Pace Lab ID 0304 1438 2349 2588 1750 2389 2227	



Document Name:
Air Sample Condition Upon Receipt

Document Revised: 19Nov2019
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Document No.:
F-MN-A-106-rev.20

Pace Analytical Services -
Minneapolis

Air Sample Condition
Upon Receipt

Client Name: Sand Creek

Project #:

WO#: **10521568**

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial See Exception

PM: KNH Due Date: 06/22/20

Tracking Number: 1723 2542 9541 & 9129

CLIENT: Sand Creek

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C): Thermometer Used: G87A9170600254

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: 6/19/20 KN

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH) -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters

Canisters

Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Ambient	423	304	-3	5					
Indoor	1765	1438	-3						
VP-N	1618	2349	-15.5						
VP-S	204	2588	-8						
Crawl Space	937	1750	-3						
Dry Cleaner Sub	583	2389	-7.5						
3149 Sub	668	2227	-8.5						

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted:

Date/Time:

Comments/Resolution:

Kirsten Hoyer