day
DAY ENGINEERING, P.C.

ENVIRONMENTAL ENGINEERING CONSULTANTS
AN AFFILIATE OF DAY ENVIRONMENTAL, INC.

October 3, 2017

Mr. Jason Kennedy, Deputy Director
Monroe County Department of Environmental Services
CityPlace, 50 West Main Street, Suite 7100
Rochester, New York 14614

RE: Indoor Air Sampling at 691 St. Paul Street, Rochester, New York

Dear Mr. Kennedy,

Day Engineering, P.C. (DAY) was retained by Monroe County DES to conduct an indoor air sampling event at the building located at 691 St. Paul Street (Site). The building is occupied for the most part by Monroe County employees.

Background

DAY completed a detailed walk-through Indoor Air Quality Assessment of the building on June 2, 2017, the findings of which were summarized in a report submitted to MC DES on July 11, 2017 (IAQ Letter). As indicated in the report, no significant sources of materials that could potentially compromise indoor air quality were found in the building at the time of the assessment.

DAY was provided with a copy of a letter titled "Tenant Notification Letter", dated August 11, 2017, prepared by Genesee Valley Real Estate Company. This letter was received by Monroe County on August 21, 2017, and included analytical results of samples collected from six sub-slab vapor sampling points, seven indoor air sampling points, and one outdoor air sampling point (SVI study) completed at the Site in April 2017. The SVI study was completed at the request of the New York State Department of Environmental Conservation (NYSDEC) in relation to a Brownfield Cleanup Program (BCP) Site located directly across St. Paul Street at 690 St. Paul Street. Three of the indoor air samples had concentrations of trichloroethene (TCE) that exceeded the indoor air guideline of 2 micrograms per cubic meter ($\mu g/m^3$) provided in the New York State Department of Health (NYSDOH) document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, and updates dated September 2013 and August 2015 (Guidance Document). The Tenant Notification Letter stated that the feasibility of a sub-slab depressurization system (SSDS) within the Site building basement is currently being assessed.

Purpose

At the request of MC DES, DAY conducted additional indoor air sampling intended to confirm and/or supplement the previously completed SVI study, including air sampling from previously untested locations inside the building.

Air Sampling Event

On September 2, 2017, DAY personnel deployed eighteen laboratory-certified "clean" 6-liter (6-L) Summa canisters in pre-determined interior sample collection locations throughout the building on the Site. In addition, one 6-L Summa canister was placed in an exterior location of the Site. The air

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samples were designated A-1 through A-19. The locations of the air samples are shown in the Floor Plans with Air Sampling Locations (ENV-1 through ENV-8) provided in Attachment A.

The Summa canisters air flow-rates were controlled with pre-calibrated 6-hr regulators supplied by the laboratory. Vacuum gauges on the regulators were monitored during sample collection to check for proper operation of the Summa canisters, and to verify that the sample collection rate did not exceed 0.2 L per minute. The vacuum readings recorded at the start of sample collection and monitored throughout the sampling event are provided on the Air Sampling Logs in Attachment B.

Analytical Laboratory Data

The air samples were submitted under chain-of-custody documentation to Spectrum-Eurofins Analytical Inc. of Agawam, Massachusetts (Eurofins) for analysis of volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method TO-15 using Analytical Services Protocol Category B. Eurofins is a NYSDOH ELAP certified laboratory (ELAP ID 10670). The preliminary test results of the following compounds were reported by Eurofins:

- 1,1-Dichloroethene
- Chloroethane
- Cis-1,2-Dichloroethene
- Trans-1,2-Dichloroethene
- Trichloroethene (TCE)
- Vinyl Chloride

A summary of the detected concentrations of the above compounds is provided on Table 1 in Attachment C. The analytical results were compared to the following:

- Indoor Air Guideline referenced in the NYSDOH Guidance Document (NYSDOH Guideline)

- Initial Indoor Air Commercial Benchmarks based on 90th Percentiles referenced in Table C2 of the NYSDOH Guidance Document (BASE 90th Percentile Values)

- Public Employee Safety and Health (PESH) Act Permissible Exposure Limits referenced in 12 NYCRR Part 800.5, Table Z-1-A (PESH PELs)

The preliminary analytical laboratory report provided by Eurofins is included as Attachment D. (Note: The final ASP Category B laboratory report provided verification of the preliminary findings. The final ASP Cat B report is included on a compact disc).

The concentration of TCE in six of the indoor air samples (A-1 and A-2 in the sub-basement, A-4 in the basement, A-10 on the second floor, A-13 on the third floor, and A-14 on the fourth floor) exceeded the NYSDOH Guideline of 2 µg/m^3. Sample A-2 also exceeded the BASE 90th percentile value for TCE of 4.2 µg/m^3. None of the samples exceeded the PESH PEL for TCE of 270,000 µg/m^3 (Note: the maximum concentration of TCE in the air samples collected was 19.78 µg/m^3 which is approximately 0.007% of the PESH PEL for TCE).

The concentration of cis-1,2-dichloroethene exceeded the BASE 90th percentile value of <1.9 µg/m^3 in three of the indoor samples tested (A-1 and A-2 in the sub-basement and A-14 on the fourth floor). PESH PELs and NYDOH Guidelines are not available for cis-1,2-dichloroethene.

No other exceedances of the NYSDOH Guideline, BASE 90th percentile values, or PESH PELs were noted.

Comments

DAY concurs with the Tenant Notification Letter that vapor mitigation methods be evaluated in the building, including assessing the feasibility of a SSDS in the basements of the building.

Please contact this office with any questions or comments concerning the information provided in this report.

Sincerely,
Day Engineering, P.C.

Jeffrey A. Danzinger
Associate Principal

JAD/hmm

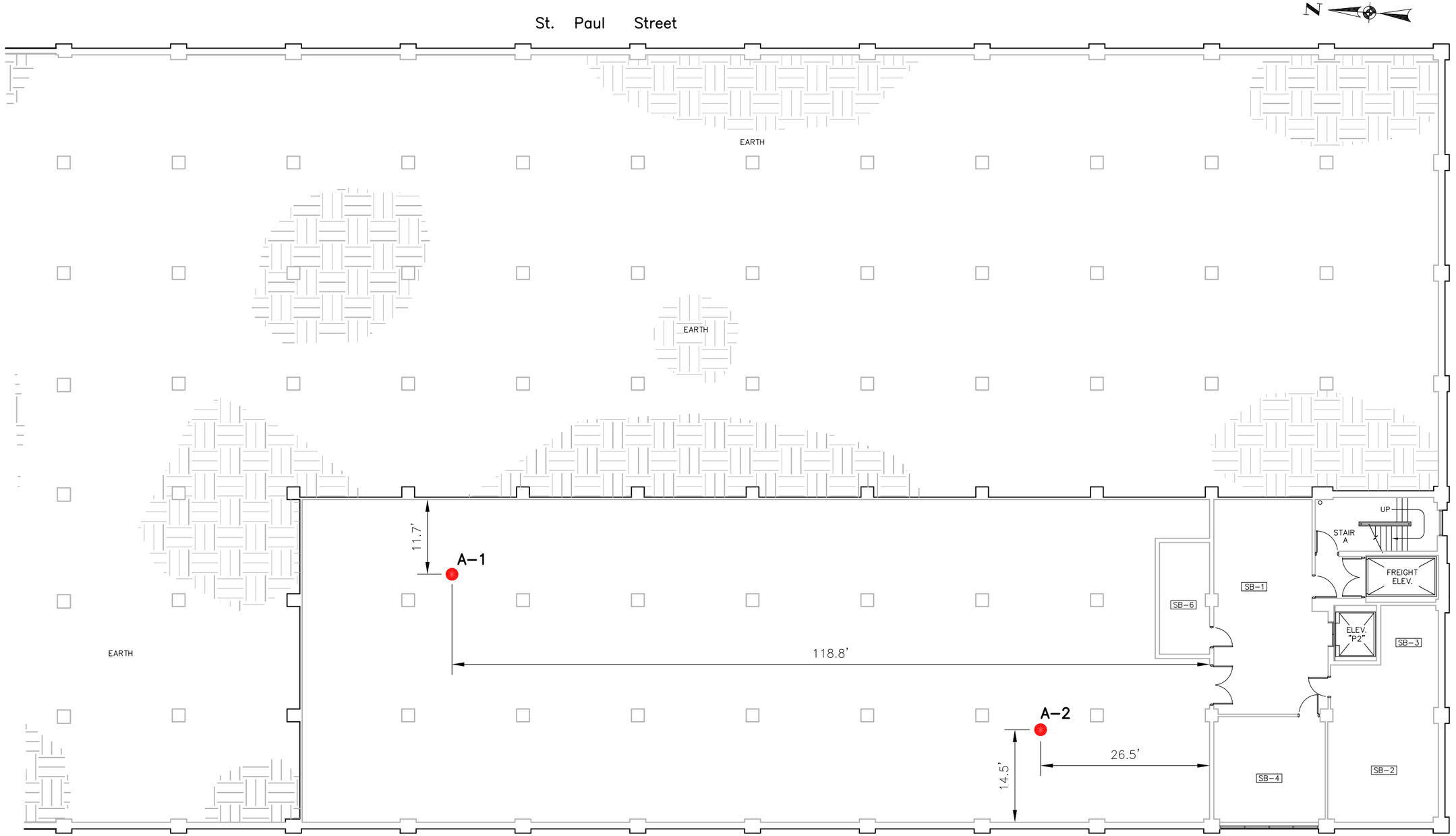
Attachments:

Attachment A: Floor Plans with Air Sampling Locations
Attachment B: Air Sample Logs
Attachment C: Table 1 Summary of Detected VOC Results in ug/m^3
Attachment D: Analytical Laboratory Report

S:\MCDES\Indoor Air Quality Westfall & St Paul\Indoor Air Sampling Report_691 St. Paul_10.3.2017.doc

ATTACHMENT A

FLOOR PLANS WITH AIR SAMPLING LOCATIONS



NOTES:

1. Building plan provided by the Owner and is noted as a general layout of the building dated 03-01-12. Dimensions are not guaranteed accurate.
2. Air samples were gathered on 9-2-2017 by representatives of Day Engineering, P.C.

LEGEND:

A-2 Air Sample Approximate Location with Label

1 / Env-1 SUB-BASEMENT FLOOR PLAN

1/16" = 1'-0"

0' 16' 32'

FIELD VERIFIED BY	JAD/HMM
DATE	9-2017
DRAWN BY	Tww
DATE DRAWN	9-2017
SCALE	As Noted
DATE ISSUED	10-3-2017

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
Monroe County Department of Environmental Services
7100 CityPlace, 50 West Main Street
Rochester, NY 14614
691 St. Paul Street Indoor Air Quality Investigation

DRAWING TITLE
Sub-Basement Floor Partial Plan with Air Sampling Locations

PROJECT NO.
16-3424S

Env-1

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Floor Plan

Pen Setting File: 800psHalfScaleColor.ctb
Time Plotted: Monday, October 02, 2017 4:19:26 PM
File Name: U:\McPhee\Drawings\MCDES\691 St Paul Street\01-Sub Basement Floor Plan-1.dwg

St. Paul Street

EMPLOYEE HALLWAY
B11

15.4'
8.3'
A-4

STORAGE
B14B

WOMEN'S LOCKER

UTILITY
B19

PHONE
B20A

WOMEN'S TOILET
B18

STORAGE
B20

B24

STORAGE
B15

ELECTRIC
B17

VACANT NORTH
B09

B10

CONFERENCE
B14

MEN'S TOILET
B16

LANDLORD STORAGE/ CRAWL SPACE
B21

B22
MACHINE

MEN'S LOCKER

CRAWL SPACE

ELEV. SHAFT

UP
STAIR "A"
DN

B08

17.0'
7.2'
A-3

CONFERENCE
B07B

COOLER

DATA
B05

SHAFT WAY

VEST. "A"

FREIGHT ELEV.

FAIR HEARING
B07

OFFICE
B07A

CAFETERIA
B06
(Under Construction)

KITCHEN SHORT ORDER

KITCHEN PREPERATION
B04

ELEV. P3

ELEV. P2

UTILITY SHAFT "A"

B02

TRAY RETURN

MECHANICAL
B23

O.D.

LOADING DOCK
B01

POWER FOR CAMERA AND COAX

DN

O.D.

O.D.

A-5

N

NOTES:

1. Building plan provided by the Owner and is noted as a general layout of the building dated 02-17-12. Dimensions are not guaranteed accurate.

2. Air samples were gathered on 9-2-2017 by representatives of Day Engineering, P.C.

LEGEND:

A-4 Air Sample Approximate Location with Label

1 / Env-2 BASEMENT FLOOR PLAN

1/16" = 1'-0"

0' 16' 32'

FIELD VERIFIED BY	JAD/HMM
DATE	9-2017
DRAWN BY	Tww
DATE DRAWN	9-2017
SCALE	As Noted
DATE ISSUED	10-3-2017

DAY ENGINEERING, P.C.
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ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
Monroe County Department of Environmental Services
7100 CityPlace, 50 West Main Street
Rochester, NY 14614

691 St. Paul Street Indoor Air Quality Investigation

DRAWING TITLE
Basement Floor Partial Plan with Air Sampling Locations

PROJECT NO.
16-3424S

Env-2

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Floor Plan

Pen Setting File: 800psHalfScaleColor.ctb
Time Plotted: Monday, October 02, 2017 4:21:17 PM
File Name: U:\McPhee\Drawings\MCDES\691 St Paul Street\02-Basement Floor Plan-1.dwg

LEGEND:

A-8 Air Sample Approximate Location with Label

NOTES:

1. Building plan provided by the Owner and is noted as a general layout of the building dated 03-01-12. Dimensions are not guaranteed accurate.
2. Air samples were gathered on 9-2-2017 by representatives of Day Engineering, P.C.

1 / Env-3 PARTIAL FIRST FLOOR PLAN

1/16" = 1'-0"

0' 16' 32'

DATE	9-2017
FIELD VERIFIED BY	JAD/HMM
DATE DRAWN	9-2017
DRAWN BY	Tww
DATE ISSUED	10-3-2017
SCALE	As Noted

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
Monroe County Department of Environmental Services
7100 CityPlace, 50 West Main Street
Rochester, NY 14614
691 St. Paul Street Indoor Air Quality Investigation

DRAWING TITLE
First Floor Partial Plan with Air Sampling Locations

PROJECT NO.
16-3424S

Env-3

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Floor Plan

Pen Setting File: 800psHalfScaleColor.ctb
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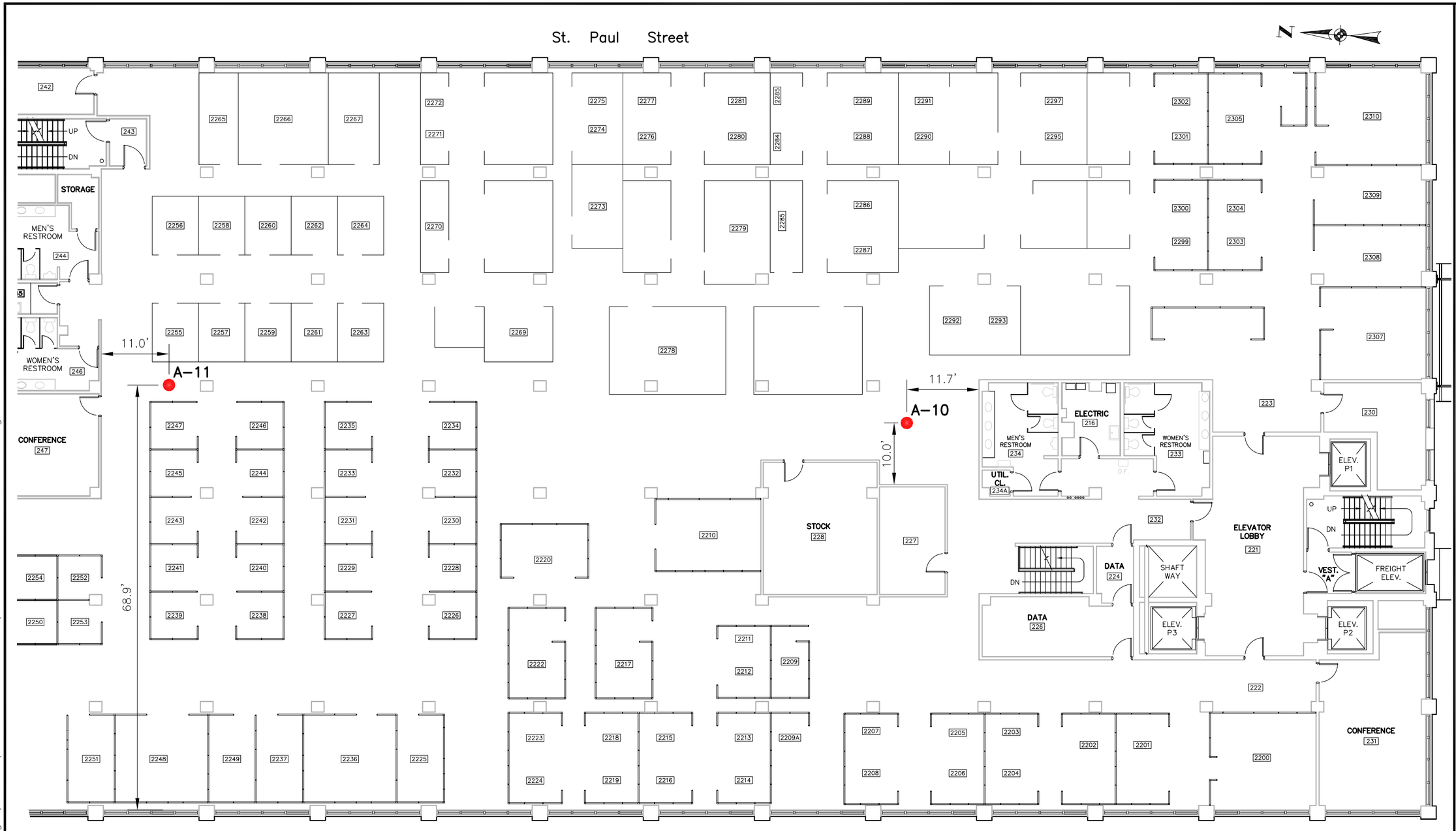

NOTES:

1. Building plan provided by the Owner and is noted as a general layout of the building dated 03-01-12. Dimensions are not guaranteed accurate.

2. Air samples were gathered on 9-2-2017 by representatives of Day Engineering, P.C.

LEGEND:

A-10 Air Sample Approximate Location with Label

1 / Env-4 PARTIAL SECOND FLOOR PLAN

1/16" = 1'-0"

0' 16' 32'

FIELD VERIFIED BY	JAD/HMM
DATE	9-2017
DRAWN BY	Tww
DATE DRAWN	9-2017
SCALE	As Noted
DATE ISSUED	10-3-2017

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
Monroe County Department of Environmental Services
7100 CityPlace, 50 West Main Street
Rochester, NY 14614
691 St. Paul Street Indoor Air Quality Investigation

DRAWING TITLE
Second Floor Partial Plan with Air Sampling Locations

PROJECT NO.
16-3424S

Env-4

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Floor Plan

Pen Setting File: 800psHalfScaleColor.ctb
Time Plotted: Monday, October 02, 2017 4:23:36 PM
File Name: U:\McPhee\Drawings\MCDES\691 St Paul Street\04-Second Floor Plan-1.dwg

St. Paul Street

N

STORAGE/ SHREDDER 342
STAIR "B"
UP
DN
VEST. "B" 343
UTILITY SHAFT "B"
CLOSET "B"
ACCESS DOOR
MENS TOILET "B" 344
UTILITY "B"
VEST. "D"
WOMENS' TOILET "B" 346
SERVICE UNITS
TEAM 1
TEAM 7
TEAM 9
55.7'
A–13
A–12
5.7'
9.1'
INTERVIEW "C" 332
INTERVIEW "B" 331
INTERVIEW "A" 330
INTERVIEW D 333
UTILITY A 316
MENS TOILET "A" 317
WOMENS TOILET "A" 318
JAN.
VEST. "C"
CORRIDOR "A" 324
ELEV. P1
STAIR "A"
FREIGHT ELEV.
VEST. "A"
SHAFT WAY
ELEVATOR LOBBY
BREAK ROOM 327
STOR./ SHRED. 328
ELEV. P3
ELEV. P2
UTILITY SHAFT
ACCESS DOOR
CONFERENCE 336
CONFERENCE "D" 337
CONFERENCE "C" 338
CONFERENCE "B" 339
CONFERENCE "A" 340
SERVICE UNITS
55.5'
TEAM 3
ENERGY TEAM

NOTES:

1. Building plan provided by the Owner and is noted as a general layout of the building dated 03–01–12. Dimensions are not guaranteed accurate.
2. Air samples were gathered on 9–2–2017 by representatives of Day Engineering, P.C.

LEGEND:

A–13 Air Sample Approximate Location with Label

1 / Env–5 PARTIAL THIRD FLOOR PLAN

1/16" = 1'–0"

0' 16' 32'

FIELD VERIFIED BY	JAD/HMM
DATE	9-2017
DRAWN BY	Tww
DATE DRAWN	9-2017
SCALE	As Noted
DATE ISSUED	10-3-2017

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
Monroe County Department of Environmental Services
7100 CityPlace, 50 West Main Street
Rochester, NY 14614
691 St. Paul Street Indoor Air Quality Investigation

DRAWING TITLE
Third Floor Partial Plan with Air Sampling Locations

PROJECT NO.
16-3424S

Env-5

Ref1:
Ref2:
Ref3:

Xerox432AnsiB–2; 11 x 17
Layout Name: Floor Plan

Pen Setting File: 800psHalfScaleColor.ctb
Time Plotted: Monday, October 02, 2017 4:24:36 PM
File Name: U:\McPhee\Drawings\MCDES\691 St Paul Street\05–Third Floor Plan–1.dwg

St. Paul Street

N

STORAGE "C" 438
UP STAIR "B" DN
439 VEST. "B"
UTILITY SHAFT "B"
JAN. "B"
MEN'S RESTROOM "B" 447
UTY "B" 448
VEST. "D"
D.F.
WOMEN'S TOILET "B" 449
OFFICE "D" 450
CONFERENCE "C" 451
STORAGE "B" 452
CONFERENCE "A" 453
4290 4291 4292 4327 4297 4298 4296 4295
25.6'
24.5'
A–15
4299 4300 4301 4302 4303 4304 4305 4306 4307
4308 4309 4310 4311 4312 4313 4314
4143 4153 4151 4144 4139 4148 4150 4146 4152 4145 4149 4147 4154
CONTRACT
4191
4145 4138 4140 4141
4192
4188
4190
4193
4023A
4294 4293
CONFERENCE "E" 446
STORAGE "F" 445
STORAGE "G" 444
BREASTFEEDING "H" 443
CLOSET
CONFERENCE 442A
STORAGE 436A
CONFERENCE "J" 441
BREAK ROOM 435
HALL "A" 498
UTILITY "A" 416
MEN'S RESTROOM "A" 432
JAN.
WOMEN'S RESTROOM "A" 433
D.F.
VEST. "C"
ELEV. P1
STORAGE 440
STAIR "A" UP DN
VEST. "A"
FREIGHT ELEV.
UTILITY SHAFT "A"
SOUTH CORRIDOR 499
50.5'
9'
A–14
DATA 424
SHAFT WAY
ELEV. P3
ELEVATOR LOBBY 421
ELEV. P2
4001
4283 4282 4281 4280
4275 4276 4277 4278 4279
4262 4255 4261 4256 4260 4257 4259 4258
4251 4252 4253 4254
4055A 4054A 4053A 4056A 4058A 4057A 4059A 4060A 4062A 4061A 4063A
4015 4016 OR 4018 4018 4015 4019 4016 4010
4052A 4049A 4048A 4047A 4046A 4045A 4044A 4043A 4040A 4038A 4037A 4035A 4033A 4031A 4030A

LEGEND:

A–15 Air Sample Approximate Location with Label

NOTES:

1. Building plan provided by the Owner and is noted as a general layout of the building dated 03–02–12. Dimensions are not guaranteed accurate.
2. Air samples were gathered on 9–2–2017 by representatives of Day Engineering, P.C.

1 / Env–6 PARTIAL FOURTH FLOOR PLAN

1/16" = 1'–0"

0' 16' 32'

DATE	9-2017
FIELD VERIFIED BY	JAD/HMM
DATE DRAWN	9-2017
DRAWN BY	Tww
DATE ISSUED	10-3-2017
SCALE	As Noted

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
Monroe County Department of Environmental Services
7100 CityPlace, 50 West Main Street
Rochester, NY 14614
691 St. Paul Street Indoor Air Quality Investigation

DRAWING TITLE
Fourth Floor Partial Plan with Air Sampling Locations

PROJECT NO.
16-3424S

Env-6

Ref1:
Ref2:
Ref3:
Xerox432AnsiB–2; 11 x 17
Layout Name: Floor Plan
Pen Setting File: 800psHalfScaleColor.ctb
Time Plotted: Monday, October 02, 2017 4:25:40 PM
File Name: U:\McPhee\Drawings\MCDES\691 St Paul Street\06–Fourth Floor Plan–1.dwg

St. Paul Street

N

STORAGE 537
UP
DN
538 VEST. "B"
UTILITY SHAFT "B"
CLOSET "B"
MEN'S TOILET "B" 539
UTILITY CLOSET 520
VEST. "D"
WOMEN'S TOILET "B" 540
KITCHENETTE
541 BREAK ROOM
5151 5176 5067 5068 5066 5069 5065 5070 5064 5071 5174 5175 5063 5076 5077 5075 5078 5074 5079 5073 5080 5072 5085 5086 5084 5087 5082 5088 5081 5093 5094 5092 5095 5091 5096 5090 5089 5101 5102 5100 5103 5099 5104 5098 5097 5109 5110 5108 5111 5107 5112 5106 5105 5117 5118 5116 5119 5115 5120 5114 5121 5113 5122 5126 5127 5125 5128 5124 5129 5123 5137 5136 5135 5134 5133 5132
A–17
23.6'
23.8'
524
5203 5202 5201 5204 5198 5197 5196 5193 5192 5191 5190 5189 5188 5183 5182 5184 5186 5185 5062 5061 5058 5056 5053 5054 5060 5059 5057 5055 5052 5051
MEN'S RESTROOM 534
ELECTRIC 516
WOMEN'S RESTROOM 535
VEST. "C"
UTIL. CL.
523
SHAFT WAY 536
UP
DN
STAIR "A"
VEST. "A"
FREIGHT ELEV.
27.6'
A–16
43.3'
5011 5004 5003 5002 5001 5010 5006 5009 5005 5008 5012 5013 5017 5014 5018 5015 5019 5016 5020 5021 5025 5022 5026 5027 5023 5028 5024 5029 5030 5031 5035 5032 5036 5033 5037 5034 5038 5039 5045 5040 5041 5046 5042 5047 5043 5048 5044 5049 5172 5173
5180 5130 TEAM LEADER 5050
MAIL/ STORAGE 530
DATA 531
SHAFT WAY
ELEV. P3
ELEVATOR LOBBY 521
ELEV. P2
UTILITY SHAFT "A"
522
STAFF\PCONFERENCE 525
533 532 OFFICE\PD 529 OFFICE\PC 528 OFFICE\PB 527 OFFICE\PA 526

NOTES:

1. Building plan provided by the Owner and is noted as a general layout of the building dated 03–02–12. Dimensions are not guaranteed accurate.
2. Air samples were gathered on 9–2–2017 by representatives of Day Engineering, P.C.

LEGEND:

A–16 Air Sample Approximate Location with Label

1 / Env–7 PARTIAL FIFTH FLOOR PLAN

1/16" = 1'–0"

0' 16' 32'

FIELD VERIFIED BY	JAD/HMM
DATE	9-2017
DRAWN BY	Tww
DATE DRAWN	9-2017
SCALE	As Noted
DATE ISSUED	10-3-2017

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
Monroe County Department of Environmental Services
7100 CityPlace, 50 West Main Street
Rochester, NY 14614
691 St. Paul Street Indoor Air Quality Investigation

DRAWING TITLE
Fifth Floor Partial Plan with Air Sampling Locations

PROJECT NO.
16-3424S

Env-7

Ref1:
Ref2:
Ref3:

Xerox432AnsiB–2; 11 x 17
Layout Name: Floor Plan

Pen Setting File: 800psHalfScaleColor.ctb
Time Plotted: Monday, October 02, 2017 4:26:38 PM
File Name: U:\McPhee\Drawings\MCDES\691 St Paul Street\07–Fifth Floor Plan–1.dwg

St. Paul Street

N

STORAGE 607
UP
DN
AIR
VEST. "B" 628
UTILITY SHAFT "B"
CLOSET "B"
MEN'S TOILET "B" 611
UTILITY CLOSET 610
VEST. "D"
WOMEN'S TOILET "B" 609
KITCHENETTE 613
58.2'
32.0'
A–18
6067 6068 6073 6074 6079 6080 6083 6086 6091 6092
6066 6069 6072 6075 6078 6081 6084 6087 6090 6093
6071
6028 6029 6036 6037 6041 6045 6049 6053 6057 6061
6027 6030 6035 6038 6042 6046 6050 6054 6058 6062
6026 6031 6034 6039 6043 6047 6051 6055 6059 6063
6025 6032 6033 6040 6044 6048 6056 6060 6064
6022 6021 6020 6019 6018 6017 6016 6015 6014 6013 6012 6011 6010
Y6106/07 Y6108/09 Y6110/11 Y6112/13
Y6128/29 Y6130/31 Y6114/15
Y6132/33 Y6134/35 Y6116/17
Y6136/37 Y6138/39 Y6118/19
Y6140/41 Y6142/43 Y6120/21
MEN'S RESTROOM 618
ELECTRIC 619
620
WOMEN'S RESTROOM
JAN. 617
VEST. "C"
UTIL. CL.
621
STORAGE 624
SHAFT WAY
UP
DN
STAIR "A"
VEST. "A"
FREIGHT ELEV.
1.5'
A–19
DATA 623
SHAFT WAY
ROOM NAME 622
ELEV. P3
15.6'
ELEVATOR LOBBY 625
ELEV. P2
UTILITY SHAFT "A"
OFFICE\PD 629
OFFICE\PC 628
OFFICE\PB 627
OFFICE\PA 626
STAFF\CONFERENCE 6001

NOTES:

1. Building plan provided by the Owner and is noted as a general layout of the building dated 03–02–12. Dimensions are not guaranteed accurate.
2. Air samples were gathered on 9–2–2017 by representatives of Day Engineering, P.C.

LEGEND:

A–18 Air Sample Approximate Location with Label

1 / Env–8 PARTIAL SIXTH FLOOR PLAN

1/16" = 1'–0"

0' 16' 32'

FIELD VERIFIED BY	JAD/HMM
DATE	9-2017
DRAWN BY	Tww
DATE DRAWN	9-2017
SCALE	As Noted
DATE ISSUED	10-3-2017

DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
Monroe County Department of Environmental Services
7100 CityPlace, 50 West Main Street
Rochester, NY 14614
691 St. Paul Street Indoor Air Quality Investigation

DRAWING TITLE
Sixth Floor Partial Plan with Air Sampling Locations

PROJECT NO.
16-3424S

Env-8

Ref1:
Ref2:
Ref3:
Xerox432AnsiB–2; 11 x 17
Layout Name: Floor Plan
Floor Plan–1.dwg
Pen Setting File: 800psHalfScaleColor.ctb
Time Plotted: Monday, October 02, 2017 4:27:46 PM
File Name: U:\McPhee\Drawings\MCDES\691 St Paul Street\08–Sixth Floor Plan

ATTACHMENT B

AIR SAMPLE LOGS

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENVIRONMENTAL, INC.

Air Sample Log A1

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 0255
Sample Designation: A1
Regulator #: 2841
Sample Location: Sub-Basement
Start: 8:34
Sample Type: Indoor Air
End: 13:39

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:34	-30	Start
9:07	-27.5	
9:40	-24.5	
10:40	-19.5	
11:05	-17	
11:29	-15	
11:55	-13	
12:21	-11	
12:49	-8	
13:39	-4	End

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Air Sample Log A2

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 16004
Sample Designation: A2
Regulator #: 0060
Sample Location: Sub-Basement
Start: 8:35
Sample Type: Indoor Air
End: 13:37

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:35	-30	Start
9:05	-29	
9:38	-28	
10:39	-20	
11:04	-18	
11:28	-18	
11:54	-14	
12:20	-12	
12:49	-10	
13:37	-6	End

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Air Sample Log A3

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 0207
Sample Designation: A3
Regulator #: 1316
Sample Location Basement
Start: 8:39
Sample Type Indoor Air
End: 12:25

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:39	-31	Start
9:11	-28	
9:52	-23	
10:43	-17	
11:08	-14	
11:32	-11.5	
11:59	-8	
12:25	-5	End

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Air Sample Log A4

Project #: 16-3424S
Project Address: 691 St. Paul Street
Rochester NY
DAY Representative: J. Danzinger / H. McLennan
Sample Designation: A4
Sample Location Basement
Sample Type Indoor Air

Test Duration: 6 hrs
Sample Type: Summa Canister
Date: 9/2/2017
Canister #: 0273
Regulator #: 2975
Start: 8:38
End: 14:38

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:38	-29	Start
9:10	-27.5	
9:51	-25	
10:43	-22	
11:08	-21	
11:31	-20	
11:58	-18	
12:24	-16	
12:51	-15	
14:38	-9	End

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Air Sample Log A5

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 7645
Sample Designation: A5
Regulator #: 2883
Sample Location Outside Basement Level
Start: 8:37
Sample Type Outdoor Air
End: 13:53

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:37	-31	Start
9:09	-29	
9:49	-25.5	
10:41	-21	
11:06	-19	
11:30	-17.5	
11:56	-15	
12:22	-13	
13:35	-7	
13:53	-5	End

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Air Sample Log A-6

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 4609
Sample Designation: A6
Regulator #: 0038
Sample Location First Floor
Start: 10:31
Sample Type Indoor Air
End: 14:27

Time	Vacuum Gage Reading (inches of Hg)	Notes
10:31	-29	Start
10:45	-28.5	
11:10	-24	
11:34	-23	
12:01	-20	
12:29	-17	
13:15	-11	
13:48	-7	
14:09	-5	
14:27	-3	End

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Air Sample Log A7

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 5565
Sample Designation: A7
Regulator #: 0050
Sample Location First Floor
Start: 8:44
Sample Type Indoor Air
End: 14:44

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:44	-30	Start
9:16	-29	
9:57	-27	
10:26	-24	
10:46	-22.5	
11:11	-20.5	
11:35	-19	
12:01	-17	
12:29	-15	
13:17	-12	
13:49	-10	
14:10	-8.5	
14:28	-7	
14:44	-6	End

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Air Sample Log A8

Project #: 16-3424S
Project Address: 691 St. Paul Street
Rochester NY
DAY Representative: J. Danzinger / H. McLennan
Sample Designation: A8
Sample Location First Floor
Sample Type Indoor Air

Test Duration: 6 hrs
Sample Type: Summa Canister
Date: 9/2/2017
Canister #: 4629
Regulator #: 0960
Start: 8:45
End: 14:30

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:45	-31	Start
9:17	-30	
9:57	-29	
10:26	-27	
10:47	-23	
11:11	-20	
11:36	-19	
12:02	-16	
12:30	-14	
13:18	-10	
13:50	-7	
14:11	-6	
14:30	-5	End

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Air Sample Log A9

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 16014
Sample Designation: A9
Regulator #: 0058
Sample Location First Floor
Start: 10:34
Sample Type Indoor Air
End: 14:34

Time	Vacuum Gage Reading (inches of Hg)	Notes
10:34	-31	Start
10:48	-30	
11:12	-28	
11:36	-25	
12:03	-21	
12:31	-16	
13:33	-10	
14:12	-6	
14:34	-4	

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Air Sample Log A-10

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 17156
Sample Designation: A10
Regulator #: 0057
Sample Location: Second Floor
Start: 10:03
Sample Type: Indoor Air
End: 13:22

Time	Vacuum Gage Reading (inches of Hg)	Notes
10:03	-29.5	Start
10:49	-24.5	
11:13	-21	
11:43	-17.5	
12:05	-14.5	
12:32	-11	
13:10	-6	
13:22	-5	End

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Air Sample Log A11

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 7634
Sample Designation: A11
Regulator #: 1315
Sample Location: Second Floor
Start: 8:48
Sample Type: Indoor Air
End: 13:12

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:48	-30+	Start
9:20	-30	
10:01	-26	
10:50	-21	
11:14	-17	
11:44	-15	
12:06	-12	
12:33	-10	
13:12	-6	End

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Air Sample Log A12

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 0473
Sample Designation: A12
Regulator #: 0009
Sample Location Third Floor
Start: 8:50
Sample Type Indoor Air
End: 12:54

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:50	-30+	Start
9:23	-29	
10:06	-24	
10:52	-19	
11:16	-16	
11:45	-12.5	
12:08	-10	
12:35	-6.5	
12:54	-4	End

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Air Sample Log A13

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 5579
Sample Designation: A13
Regulator #: 2871
Sample Location: Third Floor
Start: 8:51
Sample Type: Indoor Air
End: 12:56

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:51	-30+	Start
9:24	-30	
10:07	-25	
10:53	-19	
11:17	-16.5	
11:46	-13	
12:09	-10	
12:36	-7	
12:56	-5	End

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Air Sample Log A14

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 0486
Sample Designation: A14
Regulator #: 0826
Sample Location Fourth Floor
Start: 8:53
Sample Type Indoor Air
End: 13:01

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:53	-31	Start
9:26	-28	
10:09	-23	
10:55	-17	
11:20	-15	
11:41	-13	
12:11	-10	
12:39	-7	
13:01	-5	End

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Air Sample Log A15

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 0269
Sample Designation: A15
Regulator #: 2988
Sample Location Fourth Floor
Start: 8:54
Sample Type Indoor Air
End: 11:39

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:54	-28	Start
9:28	-23	
10:10	-17	
10:56	-10	
11:19	-6.5	
11:39	-3.5	End

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Air Sample Log A-16

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 0673
Sample Designation: A16
Regulator #: 2969
Sample Location Fifth Floor
Start: 10:19
Sample Type Indoor Air
End: 13:44

Time	Vacuum Gage Reading (inches of Hg)	Notes
10:19	-29	Start
10:59	-26	
11:22	-23	
11:49	-19	
12:14	-16	
12:42	-12	
13:05	-9	
13:44	-4	End

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Air Sample Log A17

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 0648
Sample Designation: A17
Regulator #: 2923
Sample Location Fifth Floor
Start: 8:56
Sample Type Indoor Air
End: 13:03

Time	Vacuum Gage Reading (inches of Hg)	Notes
8:56	-31	Start
9:30	-28	
10:13	-23	
10:57	-17	
11:21	-15.5	
11:48	-12.5	
12:13	-9.5	
12:41	-6	
13:03	-4	End

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Air Sample Log A18

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 5575
Sample Designation: A18
Regulator #: 0002
Sample Location Sixth Floor
Start: 9:01
Sample Type Indoor Air
End: 13:30

Time	Vacuum Gage Reading (inches of Hg)	Notes
9:01	-30	Start
9:35	-28	
10:17	-21	
11:01	-18	
11:25	-16	
11:51	-12	
12:17	-10	
12:44	-9	
13:07	-7	
13:30	5.5	End

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Air Sample Log A19

Project #: 16-3424S
Test Duration: 6 hrs
Project Address: 691 St. Paul Street
Sample Type: Summa Canister
Rochester NY
Date: 9/2/2017

DAY Representative: J. Danzinger / H. McLennan
Canister #: 0206
Sample Designation: A19
Regulator #: 0069
Sample Location: Sixth Floor
Start: 9:00
Sample Type: Indoor Air
End: 12:45

Time	Vacuum Gage Reading (inches of Hg)	Notes
9:00	-30	Start
9:34	-27	
10:16	-22	
11:01	-16	
11:24	-14	
11:50	-10	
12:16	-8	
12:45	-5	End

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ATTACHMENT C

TABLE 1: SUMMARY OF DETECTED VOC RESULTS IN UG/M^3

Table 1

691 St. Paul Street
Rochester, New York
NYSDEC BCP Site #C8281259A

Summary of Detected VOC Results in ug/m^3
Indoor Air Samples

Detected Compound	CAS Number	A NYSDOH Guideline[1]	B NYSDOH Guidance Table C2 USEPA BASE Database 90th Percentile[2]	C PESH Permissible Exposure Limits[3]	SC38828-01	SC38828-02	SC38828-03	SC38828-04	SC38828-05	SC38828-16	SC38828-06	SC38828-07	SC38828-18
					A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9
					Indoor Air	Indoor Air	Indoor Air	Indoor Air	Outdoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
					Sub-Basement		Basement		Outdoor	1st Floor			
					9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017
1,1-Dichloroethene	75-35-4	NA	<1.4	4,000	U	U	U	U	U	U	U	U	U
Chloroethane	75-00-3	NA	<1.1	2,600,000	U	U	U	U	U	U	U	U	U
Cis-1,2-Dichloroethene	156-59-2	NA	<1.9	NA	**5.23** B	**42.82** D B	U	1.59	U	0.86	0.92	1.27	1.28
Trans-1,2-Dichloroethene	156-60-5	NA	<10[4]	NA	U	0.47	U	U	U	U	U	U	U
Trichloroethylene (TCE)	79-01-6	2	4.2	270,000	**2.51** A	**19.78** AB	0.23	**3.10** A	0.04 J	0.52	1.25	1.45	1.99
Vinyl Chloride	75-01-4	NA	<1.9	2,560	U	U	U	U	U	U	U	0.03 J	U

Detected Compound	CAS Number	A NYSDOH Guideline[1]	B NYSDOH Guidance Table C2 USEPA BASE Database 90th Percentile[2]	C PESH Permissible Exposure Limits[3]	SC38828-19	SC38828-08	SC38828-09	SC38828-10	SC38828-11	SC38828-12	SC38828-17	SC38828-13	SC38828-14	SC38828-15
					A-10	A-11	A-12	A-13	A-14	A-15	A-16	A-17	A-18	A-19
					Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
					2nd floor		3rd floor		4th floor		5th floor		6th floor	
					9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017	9/2/2017
1,1-Dichloroethene	75-35-4	NA	<1.4	4,000	U	U	U	U	U	U	U	U	0.02 J	U
Chloroethane	75-00-3	NA	<1.1	2,600,000	U	U	U	U	U	U	U	U	U	U
Cis-1,2-Dichloroethene	156-59-2	NA	<1.9	NA	0.63 J	U	0.70	1.04	**3.26** B	U	1.00	1.09	0.41 J	U
Trans-1,2-Dichloroethene	156-60-5	NA	<10[4]	NA	U	U	U	U	U	U	U	U	U	U
Trichloroethylene (TCE)	79-01-6	2	4.2	270,000	**2.66** A	0.27	1.12	**2.89** A	**2.42** A	U	1.83	1.31	0.28	0.16
Vinyl Chloride	75-01-4	NA	<1.9	2,560	U	U	U	U	U	U	U	U	U	U

Notes

Concentrations and comparison criteria in ug/m^3 (micrograms per cubic meter of air)

VOC = Volatile Organic Compound

U = Compound was analyzed but not detected, detection limit shown in parenthesis.

J = Compound detected, but below the Reporting Limit and above the Method Detection Limit; therefore, the result is an estimated concentration.

NA = Not Available

[1] Indoor Air Guideline referenced in NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, and updates dated September 2013 and August 2015

[2] Initial Indoor Air Commercial Benchmarks based on 90th Percentiles referenced in Table C2 of the New York State Department of Health (NYSDOH) document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

[3] Public Employee Safety and Health (PESH) Permissible Exposure Limits referenced in 12 NYCRR Part 800.5, Table Z-1-A

[4] No value for trans-1,2-Dichloroethene is listed in NYSDOH Table C2 - USEPA Base Database. Value from Table C3 1997: Control home database (90th Percentile) used

Bold and **A** = Exceeds Indoor Air Guideline Value

Bold and **B** = Exceeds Air Benchmark Value noted

Bold and **C** = Exceeds PESH TWA Value noted

ATTACHMENT D

ANALYTICAL LABORATORY REPORT

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
13-Sep-17 18:08

Laboratory Report
SC38828

Day Engineering, P. C.
1563 Lyell Avenue
Rochester, NY 14606
Attn: Jeff Danzinger

Project: 691 St. Paul Street, Rochester, NY
Project #: 16-3424S

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Dawn Wojcik
Laboratory Director

Dawn E Wojcik

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 52 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC38828

Project: 691 St. Paul Street, Rochester, NY

Project Number: 16-3424S

Laboratory ID	Client Sample ID	Container	Matrix	Date Sampled	Date Received
SC38828-01	A-1	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 13:39	05-Sep-17 16:00
SC38828-02	A-2	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 13:37	05-Sep-17 16:00
SC38828-03	A-3	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 12:25	05-Sep-17 16:00
SC38828-04	A-4	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 14:38	05-Sep-17 16:00
SC38828-05	A-5	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 13:53	05-Sep-17 16:00
SC38828-06	A-7	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 14:44	05-Sep-17 16:00
SC38828-07	A-8	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 14:30	05-Sep-17 16:00
SC38828-08	A-11	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 13:12	05-Sep-17 16:00
SC38828-09	A-12	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 12:54	05-Sep-17 16:00
SC38828-10	A-13	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 12:56	05-Sep-17 16:00
SC38828-11	A-14	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 13:01	05-Sep-17 16:00
SC38828-12	A-15	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 11:39	05-Sep-17 16:00
SC38828-13	A-17	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 13:03	05-Sep-17 16:00
SC38828-14	A-18	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 13:30	05-Sep-17 16:00
SC38828-15	A-19	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 12:45	05-Sep-17 16:00
SC38828-16	A-6	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 14:27	05-Sep-17 16:00
SC38828-17	A-16	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 13:44	05-Sep-17 16:00
SC38828-18	A-9	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 14:34	05-Sep-17 16:00
SC38828-19	A-10	Summa canister 6 liter	Indoor/Ambient Air	02-Sep-17 13:22	05-Sep-17 16:00

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

Samples are received and the pressure is recorded from the gauge on the canister. If a canister does not have a gauge, a vacuum gauge is attached to the valve and pressure is recorded. If the canister is below -10 psig, the can must be pressurized to 0 psig. Tedlar bags do not have the pressure recorded. The can pressure can be located within this report in the sample header information.

If a Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

EPA TO-15 SIM

Samples:

S707922-CCV3

Analyte percent difference is outside individual acceptance criteria (30), but within overall method allowances.

Vinyl chloride (30.3%)

This affected the following samples:

1715233-BLK3
1715233-BLK4
1715233-BS2
1715233-BSD2
A-1
A-2
A-3
A-4
A-5
A-7
A-8

SC38828-01 *A-1*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-02 *A-2*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-04 *A-4*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-06 *A-7*

EPA TO-15 SIM

Samples:

SC38828-06 *A-7*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-07 *A-8*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-09 *A-12*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-10 *A-13*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-11 *A-14*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-13 *A-17*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-17 *A-16*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-18 *A-9*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

SC38828-19 *A-10*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Trichloroethene

EPA TO-15L

Samples:

S708097-CCV2

EPA TO-15L

Samples:

S708097-CCV2

Analyte percent difference is outside individual acceptance criteria (30), but within overall method allowances.

trans-1,2-Dichloroethene (33.1%)

This affected the following samples:

1715604-BLK1
1715604-BLK2
1715604-BS1
1715604-BSD1
A-10
A-16
A-18
A-19
A-6
A-9

SC38828-02 *A-2*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

cis-1,2-Dichloroethene

SC38828-02RE1 *A-2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

S708094-CRL1

Low level calibration check failed, data was accepted due to sample concentrations < MDL.

Chloroethane

S708097-CRL1

Low level calibration check failed, reporting limit has been elevated.

trans-1,2-Dichloroethene

S708097-CRL3

Low level calibration check failed, reporting limit has been elevated.

Chloroethane
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene

Sample Acceptance Check Form

Client:	Day Engineering, P. C.
Project:	691 St. Paul Street, Rochester, NY / 16-3424S
Work Order:	SC38828
Sample(s) received on:	9/5/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☐	☐	☑
Were samples cooled on ice upon transfer to laboratory representative?	☐	☐	☑
Were samples refrigerated upon transfer to laboratory representative?	☐	☐	☑
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC38828-01 **Client ID:** A-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.249	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	1.32		0.100	ppbv	EPA TO-15L
Trichloroethene	0.467		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-02 **Client ID:** A-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	1.93	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	13.2	E	0.100	ppbv	EPA TO-15L
trans-1,2-Dichloroethene	0.119		0.100	ppbv	EPA TO-15L
Trichloroethene	3.68		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-02RE1 **Client ID:** A-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	10.8	D	1.00	ppbv	EPA TO-15L

Lab ID: SC38828-03 **Client ID:** A-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.0423		0.0200	ppbv	EPA TO-15 SIM

Lab ID: SC38828-04 **Client ID:** A-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.318	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.402		0.100	ppbv	EPA TO-15L
Trichloroethene	0.577		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-05 **Client ID:** A-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.00700	J	0.0200	ppbv	EPA TO-15 SIM

Lab ID: SC38828-06 **Client ID:** A-7

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.122	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.233		0.100	ppbv	EPA TO-15L
Trichloroethene	0.233		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-07 **Client ID:** A-8

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.145	E	0.0200	ppbv	EPA TO-15 SIM
Vinyl chloride	0.0110	J	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.321		0.100	ppbv	EPA TO-15L
Trichloroethene	0.270		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-08 **Client ID:** A-11

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.0504		0.0200	ppbv	EPA TO-15 SIM

Lab ID: SC38828-09 **Client ID:** A-12

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.123	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.177		0.100	ppbv	EPA TO-15L
Trichloroethene	0.209		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-10 **Client ID:** A-13

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.286	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.262		0.100	ppbv	EPA TO-15L
Trichloroethene	0.537		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-11 **Client ID:** A-14

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.282	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.821		0.100	ppbv	EPA TO-15L
Trichloroethene	0.451		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-13 **Client ID:** A-17

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.125	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.275		0.100	ppbv	EPA TO-15L
Trichloroethene	0.243		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-14 **Client ID:** A-18

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethene	0.00630	J	0.0200	ppbv	EPA TO-15 SIM
Trichloroethene	0.0523		0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.104	J	0.200	ppbv	EPA TO-15L

Lab ID: SC38828-15 **Client ID:** A-19

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.0297		0.0200	ppbv	EPA TO-15 SIM

Lab ID: SC38828-16 **Client ID:** A-6

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.0968		0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.218		0.200	ppbv	EPA TO-15L

Lab ID: SC38828-17 **Client ID:** A-16

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.125	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.252		0.200	ppbv	EPA TO-15L
Trichloroethene	0.341		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-18 **Client ID:** A-9

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.131	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.322		0.200	ppbv	EPA TO-15L
Trichloroethene	0.370		0.100	ppbv	EPA TO-15L

Lab ID: SC38828-19 **Client ID:** A-10

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.178	E	0.0200	ppbv	EPA TO-15 SIM
cis-1,2-Dichloroethene	0.158	J	0.200	ppbv	EPA TO-15L
Trichloroethene	0.495		0.100	ppbv	EPA TO-15L

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-1 SC38828-01	16-3424S	Indoor/Ambient Air	02-Sep-17 13:39	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -3 Can ID: 0255		Regulator ID: 2841		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	06-Sep-17	BRF	1715233	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**1.32**	0.100	**5.23**	0.40		"	"	"	"	X
79-01-6	Trichloroethene	**0.467**	0.100	**2.51**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -3 Can ID: 0255		Regulator ID: 2841		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.249**	0.0200	**1.34**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-2 SC38828-02	16-3424S	Indoor/Ambient Air	02-Sep-17 13:37	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -6 Can ID: 16004		Regulator ID: 0060		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	06-Sep-17	BRF	1715233	X
156-60-5	trans-1,2-Dichloroethene	**0.119**	0.100	**0.47**	0.40		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**13.2**	0.100	**52.34**	0.40	E	"	"	"	"	X
79-01-6	Trichloroethene	**3.68**	0.100	**19.78**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*80-120 %*			"	"	"	"	
Re-analysis of Volatile Organics in Air Low Level			Dilution: 10			GS1					
75-00-3	Chloroethane	< 0.810	1.00	< 2.14	2.64	U, D	EPA TO-15L	13-Sep-17	BRF	1715595	X
156-60-5	trans-1,2-Dichloroethene	< 0.720	1.00	< 2.85	3.97	U, D	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**10.8**	1.00	**42.82**	3.97	D	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*95*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -6 Can ID: 16004		Regulator ID: 0060		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	06-Sep-17	BRF	1715233	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**1.93**	0.0200	**10.37**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*107*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-3 SC38828-03	16-3424S	Indoor/Ambient Air	02-Sep-17 12:25	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0207		Regulator ID: 1316		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	06-Sep-17	BRF	1715233	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.0760	0.100	< 0.30	0.40	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0207		Regulator ID: 1316		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.0423**	0.0200	**0.23**	0.11		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-4 SC38828-04	16-3424S	Indoor/Ambient Air	02-Sep-17 14:38	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -9 Can ID: 0273		Regulator ID: 2975		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	07-Sep-17	BRF	1715233	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.402**	0.100	**1.59**	0.40		"	"	"	"	X
79-01-6	Trichloroethene	**0.577**	0.100	**3.10**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -9 Can ID: 0273		Regulator ID: 2975		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.318**	0.0200	**1.71**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-5 SC38828-05	16-3424S	Indoor/Ambient Air	02-Sep-17 13:53	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 7645		Regulator ID: 2883		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	07-Sep-17	BRF	1715233	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.0760	0.100	< 0.30	0.40	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 7645		Regulator ID: 2883		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.00700**	0.0200	**0.04**	0.11	J	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*95*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-7 SC38828-06	16-3424S	Indoor/Ambient Air	02-Sep-17 14:44	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -6 Can ID: 5565		Regulator ID: 0050		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	07-Sep-17	BRF	1715233	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.233**	0.100	**0.92**	0.40		"	"	"	"	X
79-01-6	Trichloroethene	**0.233**	0.100	**1.25**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -6 Can ID: 5565		Regulator ID: 0050		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.122**	0.0200	**0.66**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-8 SC38828-07	16-3424S	Indoor/Ambient Air	02-Sep-17 14:30	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -3 Can ID: 4629		Regulator ID: 0960		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	07-Sep-17	BRF	1715233	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.321**	0.100	**1.27**	0.40		"	"	"	"	X
79-01-6	Trichloroethene	**0.270**	0.100	**1.45**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 06-Sep-17 Dilution: 1				Can pressure: -3 Can ID: 4629		Regulator ID: 0960		
75-01-4	Vinyl chloride	**0.0110**	0.0200	**0.03**	0.05	J	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.145**	0.0200	**0.78**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-11 SC38828-08	16-3424S	Indoor/Ambient Air	02-Sep-17 13:12	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1					Can pressure: -3 Can ID: 7634		Regulator ID: 1315	
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	12-Sep-17	BRF	1715595	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.0760	0.100	< 0.30	0.40	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1					Can pressure: -3 Can ID: 7634		Regulator ID: 1315	
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.0504**	0.0200	**0.27**	0.11		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-12 SC38828-09	16-3424S	Indoor/Ambient Air	02-Sep-17 12:54	05-Sep-17

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -2 Can ID: 0473		Regulator ID: 0009		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	12-Sep-17	BRF	1715595	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.177**	0.100	**0.70**	0.40		"	"	"	"	X
79-01-6	Trichloroethene	**0.209**	0.100	**1.12**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -2 Can ID: 0473		Regulator ID: 0009		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.123**	0.0200	**0.66**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-13 SC38828-10	16-3424S	Indoor/Ambient Air	02-Sep-17 12:56	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -2 Can ID: 5579		Regulator ID: 2871		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	13-Sep-17	BRF	1715595	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.262**	0.100	**1.04**	0.40		"	"	"	"	X
79-01-6	Trichloroethene	**0.537**	0.100	**2.89**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -2 Can ID: 5579		Regulator ID: 2871		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.286**	0.0200	**1.54**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-14 SC38828-11	16-3424S	Indoor/Ambient Air	02-Sep-17 13:01	05-Sep-17

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 13-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0486		Regulator ID: 0826		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	13-Sep-17	BRF	1715713	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.821**	0.100	**3.26**	0.40		"	"	"	"	X
79-01-6	Trichloroethene	**0.451**	0.100	**2.42**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 13-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0486		Regulator ID: 0826		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.282**	0.0200	**1.52**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-15	16-3424S	Indoor/Ambient Air	02-Sep-17 11:39	05-Sep-17
SC38828-12				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0269		Regulator ID: 2988		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	13-Sep-17	BRF	1715595	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.0760	0.100	< 0.30	0.40	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0269		Regulator ID: 2988		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.000720	0.0200	< 0.00	0.11	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-17 SC38828-13	16-3424S	Indoor/Ambient Air	02-Sep-17 13:03	05-Sep-17

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0648		Regulator ID: 2923		
75-00-3	Chloroethane	< 0.0810	0.100	< 0.21	0.26	U	EPA TO-15L	13-Sep-17	BRF	1715595	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.100	< 0.29	0.40	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.275**	0.100	**1.09**	0.40		"	"	"	"	X
79-01-6	Trichloroethene	**0.243**	0.100	**1.31**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0648		Regulator ID: 2923		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.125**	0.0200	**0.67**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-18	16-3424S	Indoor/Ambient Air	02-Sep-17 13:30	05-Sep-17
SC38828-14				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -5 Can ID: 5575		Regulator ID: 0002		
75-00-3	Chloroethane	< 0.0810	0.200	< 0.21	0.53	U	EPA TO-15L	12-Sep-17	BRF	1715604	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.200	< 0.29	0.79	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.104**	0.200	**0.41**	0.79	J	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -5 Can ID: 5575		Regulator ID: 0002		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	**0.00630**	0.0200	**0.02**	0.08	J	"	"	"	"	X
79-01-6	Trichloroethene	**0.0523**	0.0200	**0.28**	0.11		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-19	16-3424S	Indoor/Ambient Air	02-Sep-17 12:45	05-Sep-17
SC38828-15				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0206		Regulator ID: 0069		
75-00-3	Chloroethane	< 0.0810	0.200	< 0.21	0.53	U	EPA TO-15L	12-Sep-17	BRF	1715604	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.200	< 0.29	0.79	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.0760	0.200	< 0.30	0.79	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0206		Regulator ID: 0069		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.0297**	0.0200	**0.16**	0.11		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-6 SC38828-16	16-3424S	Indoor/Ambient Air	02-Sep-17 14:27	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -3 Can ID: 4609		Regulator ID: 0038		
75-00-3	Chloroethane	< 0.0810	0.200	< 0.21	0.53	U	EPA TO-15L	13-Sep-17	BRF	1715604	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.200	< 0.29	0.79	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.218**	0.200	**0.86**	0.79		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*96*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -3 Can ID: 4609		Regulator ID: 0038		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.0968**	0.0200	**0.52**	0.11		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-16 SC38828-17	16-3424S	Indoor/Ambient Air	02-Sep-17 13:44	05-Sep-17

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0673		Regulator ID: 2969		
75-00-3	Chloroethane	< 0.0810	0.200	< 0.21	0.53	U	EPA TO-15L	13-Sep-17	BRF	1715604	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.200	< 0.29	0.79	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.252**	0.200	**1.00**	0.79		"	"	"	"	X
79-01-6	Trichloroethene	**0.341**	0.100	**1.83**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 0673		Regulator ID: 2969		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.125**	0.0200	**0.67**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-9 SC38828-18	16-3424S	Indoor/Ambient Air	02-Sep-17 14:34	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -3 Can ID: 16014		Regulator ID: 0058		
75-00-3	Chloroethane	< 0.0810	0.200	< 0.21	0.53	U	EPA TO-15L	13-Sep-17	BRF	1715604	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.200	< 0.29	0.79	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.322**	0.200	**1.28**	0.79		"	"	"	"	X
79-01-6	Trichloroethene	**0.370**	0.100	**1.99**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*96*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -3 Can ID: 16014		Regulator ID: 0058		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.131**	0.0200	**0.70**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*80-120 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
A-10 SC38828-19	16-3424S	Indoor/Ambient Air	02-Sep-17 13:22	05-Sep-17

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air Low Level		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 17156		Regulator ID: 0057		
75-00-3	Chloroethane	< 0.0810	0.200	< 0.21	0.53	U	EPA TO-15L	13-Sep-17	BRF	1715604	X
156-60-5	trans-1,2-Dichloroethene	< 0.0720	0.200	< 0.29	0.79	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**0.158**	0.200	**0.63**	0.79	J	"	"	"	"	X
79-01-6	Trichloroethene	**0.495**	0.100	**2.66**	0.54		"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*89*		*80-120 %*			"	"	"	"	
Chlorinated SIM		ppbv	Prepared 12-Sep-17 Dilution: 1				Can pressure: -4 Can ID: 17156		Regulator ID: 0057		
75-01-4	Vinyl chloride	< 0.00177	0.0200	< 0.00	0.05	U	EPA TO-15 SIM	"	BRF	"	X
75-35-4	1,1-Dichloroethene	< 0.00173	0.0200	< 0.01	0.08	U	"	"	"	"	X
79-01-6	Trichloroethene	**0.178**	0.0200	**0.96**	0.11	E	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*91*		*80-120 %*			"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15 SIM										
Batch 1715233 - General Air Prep										
Blank (1715233-BLK3)						Prepared & Analyzed: 06-Sep-17				
Vinyl chloride	< 0.00177	U	ppbv	0.00177						
1,1-Dichloroethene	< 0.00173	U	ppbv	0.00173						
Trichloroethene	< 0.000720	U	ppbv	0.000720						
Surrogate: 4-Bromofluorobenzene	*9.83*		ppbv		*10.0*		*98*	*80-120*		
Blank (1715233-BLK4)						Prepared: 06-Sep-17 Analyzed: 07-Sep-17				
Vinyl chloride	< 0.00177	U	ppbv	0.00177						
1,1-Dichloroethene	< 0.00173	U	ppbv	0.00173						
Trichloroethene	< 0.000720	U	ppbv	0.000720						
Surrogate: 4-Bromofluorobenzene	*9.67*		ppbv		*10.0*		*97*	*80-120*		
LCS (1715233-BS2)						Prepared & Analyzed: 06-Sep-17				
Vinyl chloride	**0.0414**		ppbv		0.0400		104	65-135		
1,1-Dichloroethene	**0.0379**		ppbv		0.0400		95	65-135		
Trichloroethene	**0.0435**		ppbv		0.0400		109	65-135		
Surrogate: 4-Bromofluorobenzene	*9.65*		ppbv		*10.0*		*96*	*80-120*		
LCS Dup (1715233-BSD2)						Prepared & Analyzed: 06-Sep-17				
Vinyl chloride	**0.0481**		ppbv		0.0400		120	65-135	15	35
1,1-Dichloroethene	**0.0404**		ppbv		0.0400		101	65-135	6	35
Trichloroethene	**0.0417**		ppbv		0.0400		104	65-135	4	35
Surrogate: 4-Bromofluorobenzene	*9.78*		ppbv		*10.0*		*98*	*80-120*		
Batch 1715595 - General Air Prep										
Blank (1715595-BLK3)						Prepared & Analyzed: 12-Sep-17				
Vinyl chloride	< 0.00177	U	ppbv	0.00177						
1,1-Dichloroethene	< 0.00173	U	ppbv	0.00173						
Trichloroethene	< 0.000720	U	ppbv	0.000720						
Surrogate: 4-Bromofluorobenzene	*9.85*		ppbv		*10.0*		*98*	*80-120*		
Blank (1715595-BLK4)						Prepared & Analyzed: 12-Sep-17				
Vinyl chloride	< 0.00177	U	ppbv	0.00177						
1,1-Dichloroethene	< 0.00173	U	ppbv	0.00173						
Trichloroethene	< 0.000720	U	ppbv	0.000720						
Surrogate: 4-Bromofluorobenzene	*9.71*		ppbv		*10.0*		*97*	*80-120*		
LCS (1715595-BS2)						Prepared & Analyzed: 12-Sep-17				
Vinyl chloride	**0.0398**		ppbv		0.0400		100	65-135		
1,1-Dichloroethene	**0.0421**		ppbv		0.0400		105	65-135		
Trichloroethene	**0.0462**		ppbv		0.0400		116	65-135		
Surrogate: 4-Bromofluorobenzene	*9.96*		ppbv		*10.0*		*100*	*80-120*		
LCS Dup (1715595-BSD2)						Prepared & Analyzed: 12-Sep-17				
Vinyl chloride	**0.0418**		ppbv		0.0400		104	65-135	5	35
1,1-Dichloroethene	**0.0408**		ppbv		0.0400		102	65-135	3	35
Trichloroethene	**0.0425**		ppbv		0.0400		106	65-135	8	35
Surrogate: 4-Bromofluorobenzene	*10.3*		ppbv		*10.0*		*103*	*80-120*		
Batch 1715604 - General Air Prep										
Blank (1715604-BLK3)						Prepared & Analyzed: 12-Sep-17				
Vinyl chloride	**0.00530**	J	ppbv	0.00177						
1,1-Dichloroethene	**0.00520**	J	ppbv	0.00173						
Trichloroethene	**0.0135**	J	ppbv	0.000720						
Surrogate: 4-Bromofluorobenzene	*9.43*		ppbv		*10.0*		*94*	*80-120*		
Blank (1715604-BLK4)						Prepared: 12-Sep-17 Analyzed: 13-Sep-17				

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15 SIM										
Batch 1715604 - General Air Prep										
Blank (1715604-BLK4)						Prepared: 12-Sep-17 Analyzed: 13-Sep-17				
Vinyl chloride	**0.00450**	J	ppbv	0.00177						
1,1-Dichloroethene	**0.00450**	J	ppbv	0.00173						
Trichloroethene	**0.0142**	J	ppbv	0.000720						
Surrogate: 4-Bromofluorobenzene	*10.7*		ppbv		*10.0*		*107*	*80-120*		
LCS (1715604-BS2)						Prepared & Analyzed: 12-Sep-17				
Vinyl chloride	**0.0391**		ppbv		0.0400		98	65-135		
1,1-Dichloroethene	**0.0334**		ppbv		0.0400		84	65-135		
Trichloroethene	**0.0457**		ppbv		0.0400		114	65-135		
Surrogate: 4-Bromofluorobenzene	*10.3*		ppbv		*10.0*		*103*	*80-120*		
LCS Dup (1715604-BSD2)						Prepared & Analyzed: 12-Sep-17				
Vinyl chloride	**0.0412**		ppbv		0.0400		103	65-135	5	35
1,1-Dichloroethene	**0.0343**		ppbv		0.0400		86	65-135	3	35
Trichloroethene	**0.0403**		ppbv		0.0400		101	65-135	13	35
Surrogate: 4-Bromofluorobenzene	*9.53*		ppbv		*10.0*		*95*	*80-120*		
Batch 1715713 - General Air Prep										
Blank (1715713-BLK2)						Prepared & Analyzed: 13-Sep-17				
Vinyl chloride	< 0.00177	U	ppbv	0.00177						
1,1-Dichloroethene	< 0.00173	U	ppbv	0.00173						
Trichloroethene	< 0.000720	U	ppbv	0.000720						
Surrogate: 4-Bromofluorobenzene	*9.81*		ppbv		*10.0*		*98*	*80-120*		
LCS (1715713-BS2)						Prepared & Analyzed: 13-Sep-17				
Vinyl chloride	**0.0433**		ppbv		0.0400		108	65-135		
1,1-Dichloroethene	**0.0493**		ppbv		0.0400		123	65-135		
Trichloroethene	**0.0481**		ppbv		0.0400		120	65-135		
Surrogate: 4-Bromofluorobenzene	*9.58*		ppbv		*10.0*		*96*	*80-120*		
LCS Dup (1715713-BSD2)						Prepared & Analyzed: 13-Sep-17				
Vinyl chloride	**0.0497**		ppbv		0.0400		124	65-135	14	35
1,1-Dichloroethene	**0.0497**		ppbv		0.0400		124	65-135	0.8	35
Trichloroethene	**0.0463**		ppbv		0.0400		116	65-135	4	35
Surrogate: 4-Bromofluorobenzene	*9.72*		ppbv		*10.0*		*97*	*80-120*		
EPA TO-15L										
Batch 1715233 - General Air Prep										
Blank (1715233-BLK1)						Prepared & Analyzed: 06-Sep-17				
Chloroethane	< 0.0810	U	ppbv	0.0810						
trans-1,2-Dichloroethene	< 0.0720	U	ppbv	0.0720						
cis-1,2-Dichloroethene	< 0.0760	U	ppbv	0.0760						
Surrogate: 4-Bromofluorobenzene	*10.1*		ppbv		*10.0*		*101*	*80-120*		
Blank (1715233-BLK2)						Prepared: 06-Sep-17 Analyzed: 07-Sep-17				
Chloroethane	< 0.0810	U	ppbv	0.0810						
trans-1,2-Dichloroethene	< 0.0720	U	ppbv	0.0720						
cis-1,2-Dichloroethene	< 0.0760	U	ppbv	0.0760						
Surrogate: 4-Bromofluorobenzene	*9.95*		ppbv		*10.0*		*100*	*80-120*		
LCS (1715233-BS1)						Prepared & Analyzed: 06-Sep-17				
Chloroethane	**1.70**		ppbv		2.00		85	65-135		
trans-1,2-Dichloroethene	**2.10**		ppbv		2.00		105	65-135		
cis-1,2-Dichloroethene	**2.06**		ppbv		2.00		103	65-135		
Surrogate: 4-Bromofluorobenzene	*10.1*		ppbv		*10.0*		*101*	*80-120*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15L										
Batch 1715233 - General Air Prep										
LCS Dup (1715233-BSD1)					Prepared & Analyzed: 06-Sep-17					
Chloroethane	**1.73**		ppbv		2.00		87	65-135	2	35
trans-1,2-Dichloroethene	**2.10**		ppbv		2.00		105	65-135	0.4	35
cis-1,2-Dichloroethene	**2.09**		ppbv		2.00		105	65-135	1	35
Surrogate: 4-Bromofluorobenzene	*9.94*		ppbv		*10.0*		*99*	*80-120*		
Batch 1715595 - General Air Prep										
Blank (1715595-BLK1)					Prepared & Analyzed: 12-Sep-17					
Chloroethane	< 0.0810	U	ppbv	0.0810						
trans-1,2-Dichloroethene	< 0.0720	U	ppbv	0.0720						
cis-1,2-Dichloroethene	< 0.0760	U	ppbv	0.0760						
Surrogate: 4-Bromofluorobenzene	*9.64*		ppbv		*10.0*		*96*	*80-120*		
Blank (1715595-BLK2)					Prepared & Analyzed: 12-Sep-17					
Chloroethane	< 0.0810	U	ppbv	0.0810						
trans-1,2-Dichloroethene	< 0.0720	U	ppbv	0.0720						
cis-1,2-Dichloroethene	< 0.0760	U	ppbv	0.0760						
Surrogate: 4-Bromofluorobenzene	*9.64*		ppbv		*10.0*		*96*	*80-120*		
LCS (1715595-BS1)					Prepared & Analyzed: 12-Sep-17					
Chloroethane	**1.78**		ppbv		2.00		89	65-135		
trans-1,2-Dichloroethene	**2.01**		ppbv		2.00		101	65-135		
cis-1,2-Dichloroethene	**2.19**		ppbv		2.00		110	65-135		
Surrogate: 4-Bromofluorobenzene	*10.1*		ppbv		*10.0*		*101*	*80-120*		
LCS Dup (1715595-BSD1)					Prepared & Analyzed: 12-Sep-17					
Chloroethane	**1.89**		ppbv		2.00		95	65-135	6	35
trans-1,2-Dichloroethene	**2.07**		ppbv		2.00		104	65-135	3	35
cis-1,2-Dichloroethene	**2.27**		ppbv		2.00		114	65-135	4	35
Surrogate: 4-Bromofluorobenzene	*10.1*		ppbv		*10.0*		*101*	*80-120*		
Batch 1715604 - General Air Prep										
Blank (1715604-BLK1)					Prepared & Analyzed: 12-Sep-17					
Chloroethane	< 0.0810	U	ppbv	0.0810						
trans-1,2-Dichloroethene	< 0.0720	U	ppbv	0.0720						
cis-1,2-Dichloroethene	< 0.0760	U	ppbv	0.0760						
Surrogate: 4-Bromofluorobenzene	*9.27*		ppbv		*10.0*		*93*	*80-120*		
Blank (1715604-BLK2)					Prepared: 12-Sep-17 Analyzed: 13-Sep-17					
Chloroethane	< 0.0810	U	ppbv	0.0810						
trans-1,2-Dichloroethene	< 0.0720	U	ppbv	0.0720						
cis-1,2-Dichloroethene	< 0.0760	U	ppbv	0.0760						
Surrogate: 4-Bromofluorobenzene	*10.5*		ppbv		*10.0*		*105*	*80-120*		
LCS (1715604-BS1)					Prepared & Analyzed: 12-Sep-17					
Chloroethane	**1.98**		ppbv		2.00		99	65-135		
trans-1,2-Dichloroethene	**1.97**		ppbv		2.00		99	65-135		
cis-1,2-Dichloroethene	**1.93**		ppbv		2.00		97	65-135		
Surrogate: 4-Bromofluorobenzene	*9.94*		ppbv		*10.0*		*99*	*80-120*		
LCS Dup (1715604-BSD1)					Prepared & Analyzed: 12-Sep-17					
Chloroethane	**1.53**		ppbv		2.00		76	65-135	26	35
trans-1,2-Dichloroethene	**1.46**		ppbv		2.00		73	65-135	30	35
cis-1,2-Dichloroethene	**2.08**		ppbv		2.00		104	65-135	7	35
Surrogate: 4-Bromofluorobenzene	*9.55*		ppbv		*10.0*		*96*	*80-120*		
Batch 1715713 - General Air Prep										

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15L										
Batch 1715713 - General Air Prep										
Blank (1715713-BLK1)						Prepared & Analyzed: 13-Sep-17				
Chloroethane	< 0.0810	U	ppbv	0.0810						
trans-1,2-Dichloroethene	< 0.0720	U	ppbv	0.0720						
cis-1,2-Dichloroethene	< 0.0760	U	ppbv	0.0760						
Surrogate: 4-Bromofluorobenzene	*9.73*		ppbv		*10.0*		*97*	*80-120*		
LCS (1715713-BS1)						Prepared & Analyzed: 13-Sep-17				
Chloroethane	**1.94**		ppbv		2.00		97	65-135		
trans-1,2-Dichloroethene	**2.12**		ppbv		2.00		106	65-135		
cis-1,2-Dichloroethene	**2.31**		ppbv		2.00		115	65-135		
Surrogate: 4-Bromofluorobenzene	*10.1*		ppbv		*10.0*		*101*	*80-120*		
LCS Dup (1715713-BSD1)						Prepared & Analyzed: 13-Sep-17				
Chloroethane	**1.93**		ppbv		2.00		96	65-135	0.8	35
trans-1,2-Dichloroethene	**2.03**		ppbv		2.00		102	65-135	4	35
cis-1,2-Dichloroethene	**2.16**		ppbv		2.00		108	65-135	7	35
Surrogate: 4-Bromofluorobenzene	*10.0*		ppbv		*10.0*		*100*	*80-120*		

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 7/22/2017

Canister ID: 0206 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

0206

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/3/2017

Canister ID: 0207 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

0207

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/1/2017

Canister ID: 0255 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

0255

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/29/2017

Canister ID: 0269 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

0269

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/2/2017

Canister ID: 0273 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

0273

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/28/2017

Canister ID: 0473 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

0473

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/28/2017

Canister ID: 0486 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

0486

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/8/2017

Canister ID: 0648 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

0648

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/30/2017

Canister ID: 0673 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

0673

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/4/2017

Canister ID: 16004 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

16004

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/28/2017

Canister ID: 16014 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

16014

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/8/2017

Canister ID: 17156 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

17156

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/1/2017

Canister ID: 4609 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

4609

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/4/2017

Canister ID: 4629 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

4629

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/2/2017

Canister ID: 5565 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

5565

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 7/25/2017

Canister ID: 5569 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.2	Ethanol	<0.2
Acrylonitrile	<0.2	4-Isopropyl Toluene	<0.2
Benzene	<0.2	Ethyl acetate	<0.2
Benzyl chloride	<0.2	Ethylbenzene	<0.2
Bromodichloromethane	<0.2	4-Ethyltoluene	<0.2
Bromoform	<0.2	n-Heptane	<0.2
Bromomethane	<0.2	Hexachlorobutadiene	<0.2
1,3-Butadiene	<0.2	Hexane	<0.2
2-Butanone (MEK)	<0.2	2-Hexanone (MBK)	<0.2
Carbon disulfide	<0.2	Isopropyl alcohol	<0.2
Carbon tetrachloride	<0.2	4-Methyl-2-pentanone (MIBK)	<0.2
Chlorobenzene	<0.2	Methyl tert-butyl ether	<0.2
Chloroethane	<0.2	Methylene chloride	<0.2
1,4-Dioxane	<0.2	Naphthalene	<0.2
n-Butylbenzene	<0.2	1,1,1,2-Tetrachlorethane	<0.2
Chloroform	<0.2	Propene	<0.2
Chloromethane	<0.2	Styrene	<0.2
Cyclohexane	<0.2	1,1,2,2-Tetrachloroethane	<0.2
Dibromochloromethane	<0.2	Tetrachloroethene	<0.2
1,2-Dibromoethane (EDB)	<0.2	Tetrahydrofuran	<0.2
1,2-Dichlorobenzene	<0.2	Toluene	<0.2
1,3-Dichlorobenzene	<0.2	1,2,4-Trichlorobenzene	<0.2
1,4-Dichlorobenzene	<0.2	1,1,1-Trichloroethane	<0.2
Dichlorodifluoromethane (Freon12)	<0.2	1,1,2-Trichloroethane	<0.2
1,1-Dichloroethane	<0.2	Trichloroethene	<0.2
1,2-Dichloroethane	<0.2	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.2
1,1-Dichloroethene	<0.2	Trichlorofluoromethane (Freon 11)	<0.2
cis-1,2-Dichloroethene	<0.2	1,2,4-Trimethylbenzene	<0.2
trans-1,2-Dichloroethene	<0.2	1,3,5-Trimethylbenzene	<0.2
1,2-Dichloropropane	<0.2	Vinyl chloride	<0.2
cis-1,3-Dichloropropene	<0.2	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.2	o-Xylene	<0.2
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.2	sec-Butylbenzene	<0.2
Isopropylbenzene	<0.2		

This certification applies to the following sampling devices:

5575

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/30/2017

Canister ID: 5579 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

5579

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/29/2017

Canister ID: 7634 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

7634

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 8/3/2017

Canister ID: 7645 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	4-Isopropyl Toluene	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.04	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.04
1,3-Butadiene	<0.1	Hexane	<0.5
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.04	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,4-Dioxane	<0.5	Naphthalene	<0.1
n-Butylbenzene	<0.1	1,1,1,2-Tetrachlorethane	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.04
Dibromochloromethane	<0.04	Tetrachloroethene	<0.04
1,2-Dibromoethane (EDB)	<0.04	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.04	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.04
1,1-Dichloroethane	<0.04	Trichloroethene	<0.04
1,2-Dichloroethane	<0.04	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.04	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.04	Vinyl chloride	<0.04
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

This certification applies to the following sampling devices:

7645

Notes and Definitions

CRL1	Low level calibration check failed, data was accepted due to sample concentrations < MDL.
CRL3	Low level calibration check failed, reporting limit has been elevated.
D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

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Chain of Custody Record/Field Test Data Sheets for Air Analyses

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Page 1 of 3

Special Handling:
☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 5-day preliminary
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.

Report To: Day Engineering, P.C. 1563 Lyell Avenue Rochester, NY 14606	**Invoice To:** Day Engineering, P.C. 1563 Lyell Avenue Rochester, NY 14606	**Project No.:** 16-34245 **Site Name:** 691 St. Paul Street **Location:** Rochester **State:** NY **Sampler(s):** J. Danzinger; H. McLennan	
Tel #: 585-454-0210	**Attn:** Jeff Danzinger		
Project Manager: Jeff Danzinger	**P.O. No.:** 16-34245 **RQN:**		

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)	Lab Id:	Sample Id:	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Analysis: TO-15 VOCs	Matrix: Indoor/Ambient Air	Matrix: Soil Gas	Check box if canister is returned unused
LABORATORY USE ONLY																		
0255	6	-30		2841	13.4	38828-01	A-1	9/2/2017	834	1339	-30	-4			X	X		
16004	6	-30		0060	13.5	-02	A-2	9/2/2017	835	1337	-30	-6			X	X		
0307	6	-30		1316	13.8	-03	A-3	9/2/2017	839	1225	-31	-5			X	X		
0373	6	-30		2975	13.8	-04	A-4	9/2/2017	838	1438	-29	-9			X	X		
7645	6	-30		2883	13.6	-05	A-5	9/2/2017	837	1353	-31	-5			X	X		
~~5585~~	6	~~-30~~		0033	13.6	~~-06~~	~~A-6~~	~~9/2/2017~~	~~1031~~	~~1427~~	~~-29~~	~~-3~~			X			
5565	6	-30		0050	13.3	-06	A-7	9/2/2017	844	1444	-30	-6			X	X		
4639	6	-30		0960	13.3	-07	A-8	9/2/2017	845	1430	-31	-5			X	X		
~~4609~~	6	~~-30~~		2846	13.7	~~-08~~	~~A-9~~	~~9/2/2017~~							X			
4471	6	-30		2983	13.5	~~-09~~	A-10	9/2/2017							X			

Date of Request: 8-28-17
Requested by: Jeff Danzinger
Company: Day Environmental
Location: Rochester NY
Date Needed: 9-1-17
Order #: 42272
Prepared by: KB

Total # Canisters: 25
LL Canisters: 25
Flow Controllers: 25
Flow Rate/Setting: 6 hrs
Filters: —
Gauge # 15

Special Instructions/QC Requirements & Comments: Include SIM technique. Only Report the following VOCs: 1,1-Dichloroethene; Chloroethene; Cis-1,2-Dichloroethene, trans-1,2-Dichloroethene; Trichloroethene (TCE); and Vinyl Chloride

Client Use	Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)
Start		
Stop		

I attest that all media has been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: Date:

Printed:

QA/QC Reporting Level:

☐ Standard ☐ NY ASP A* ☐ TIER II* ☐ MA CAM
☐ DQA* ☒ NY ASP B* ☐ TIER IV* ☐ CT RCP

* additional charge may apply contact ESAI's Client Service Dept for further info.

Please contact ESAI's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
Jeff Danzinger	Jay Cpanzz	9/5/2017	10:08
	Jen	9/5/17	1600

☒ EDD Format: NYSDEC Equis Excel
☒ E-mail Results to: jdanzinger@daymail.net

26.310/26.3 FR-01

5759

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

Revised Jan 2016

SC 38828

Chain of Custody Record/Field Test Data Sheets for Air Analyses

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Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 5-day preliminary
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.

Report To: Day Engineering, P.C.	**Invoice To:** Day Engineering, P.C.		
1563 Lyell Avenue	1563 Lyell Avenue	**Project No.:** 16-34245	
Rochester, NY 14606	Rochester, NY 14606	**Site Name:** 691 St. Paul Street	
		Location: Rochester **State:** NY	
Tel #: 585 454-0210	**Attn:** Jeff Danzinger	**Sampler(s):** J. Danzinger, H. McLennan	
Project Manager: Jeff Danzinger	**P.O. No.:** 16-34245 **RQN:**		

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)	Lab Id:	Sample Id:	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Analysis: TO-15 VOCs	Matrix: Indoor/Ambient Air	Matrix: Soil Gas	Check box if canister is returned unused
			LABORATORY USE ONLY															
7634	6	-30		1315	13.6	38828-08	A-11	9/2/2017	848	1312	-30+	-6			X	X		
0473	6	-30		0009	13.8	-09	A-12	9/2/2017	850	1254	-30+	-4			X	X		
5571	6	-30		2871	13.4	-10	A-13	9/2/2017	851	1256	-30+	-5			X	X		
0486	6	-30		0826	13.7	-11	A-14	9/2/2017	853	1301	-31	-5			X	X		
0269	6	-30		2988	13.6	-12	A-15	9/2/2017	854	1139	-28	-3.5			X	X		
7640	6	-30		2869	13.6	~~-12~~	A-16	9/2/2017							X	X		
0618	6	-30		2923	13.5	-13	A-17	9/2/2017	856	1303	-31	-4			X	X		
5575	6	-30		0002	13.5	-14	A-18	9/2/2017	901	1330	-30	-5.5			X	X		
0206	6	-30		0069	13.2	-15	A-19	9/2/2017	900	1245	-30	-5			X	X		
4605	6	-30		0038	13.7	-16	A-6	9/2/2017	1031	1427	-29	-3			X	X		

Date of Request: 8-28-17	Total # Canisters: 25	**Special Instructions/QC Requirements & Comments:** Include SIM Technique. Only report the following VOCs: 1,1-Dichloroethene; Chloroethane; Cis-1,2-Dichloroethene; Trans-1,2-Dichloroethene; Trichloroethene (TCE); and Vinyl Chloride	Client Use
Requested by: Jeff Danzinger	# LL Canisters: 25		Start
Company: Day Environmental	# Flow Controllers: 25		Stop
Location: Rochester, NY	Flow Rate/Setting: 6 hrs		
Date Needed: 9-1-17	# Filters —		
Order #: 42272	Gauge # 15		
Prepared by: ICB			

Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)

I attest that all media has been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: Date:

Printed:

QA/QC Reporting Level:

☐ Standard ☐ NY ASP A* ☐ TIER II* ☐ MA CAM

☐ DQA* ☒ NY ASP B* ☐ TIER IV* ☐ CT RCP

* additional charge may apply contact ESAI's Client Service Dept for further info.

Please contact ESAI's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
[signature]	Tony Cipriano	9/5/2017	10:08
Tony Cipriano	[signature]	9/5/17	1600

☒ EDD Format NYSDEC Equis Excel

☒ E-mail Results to jdanzinger@daymail.net

A 5760

SC 38828

Chain of Custody Record/Field Test Data Sheets for Air Analyses

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Page 3 of 3

Special Handling:
☐ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.

Report To: Day Engineering, P.C.	**Invoice To:** Day Engineering, P.C.	**Project No.:** 16-34245
1563 Lyell Avenue	1563 Lyell Avenue	**Site Name:** 691 St. Paul Street
Rochester, NY 14606	Rochester, NY 14606	**Location:** Rochester **State:** NY
Tel #: 585-454-0210	**Attn:** Jeff Danzinger	**Sampler(s):** J. Danzinger, H. McLennan
Project Manager: Jeff Danzinger	**P.O. No.:** 16-34245 **RQN:**	

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)	Lab Id:	Sample Id:	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Analysis: TO-15 VOCs	Matrix: Indoor /Ambient Air	Matrix: Soil Gas	Check box if canister is returned unused
			LABORATORY USE ONLY															
17161	6	-30		0861	13.7	[illegible]												
4561	6	-30		2865	13.4	[illegible]												
0673	6	-30		2969	13.5	38828-17	A-11	9/2/2017	1099	1344	-29	-4			X	X		
16614	6	-30		0058	13.8	-18	A-9	9/2/2017	1034	1434	-31	-4			X	X		
17156	6	-30		0057	13.7	-19	A-10	9/2/2017	1003	1322	-29.5	-5			X	X		

Date of Request: 8-28-17
Requested by: Jeff Danzinger
Company: Day Environmental
Location: Rochester, NY
Date Needed: 9-1-17
Order #: 42272
Prepared by: KB

Total # Canisters: 25
LL Canisters: 25
Flow Controllers: 25
Flow Rate/Setting: 6hrs
Filters: ——
Gauge # 15

Special Instructions/QC Requirements & Comments: Include SIM Technique. Only report the following VOCs: 1,1-Dichloroethene; Chloroethane; Cis-1,2-Dichloroethene; Trans-1,2-Dichloroethene; Trichloroethene (TCE) and Vinyl Chloride.

Client Use	Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)
Start		
Stop		

I attest that all media has been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: Date:

Printed:

QA/QC Reporting Level:

☐ Standard ☐ NY ASP A* ☐ TIER II* ☐ MA CAM
☐ DQA* ☒ NY ASP B* ☐ TIER IV* ☐ CT RCP

* additional charge may apply contact ESAI's Client Service Dept for further info.

Please contact ESAI's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
[signature]	Tony Spinelli	9/5/2017	10:08
Tony Spinelli	[signature]	9/5/17	1600

☒ EDD Format: NYSDEC Equis Excel
☒ E-mail Results to: jdanzinger@daymail.net

5761

SC 38828

Chain of Custody Record/Field Test Data Sheets for Air Analyses

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Page 1 of 3

Special Handling:
☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 5 day preliminary
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.

Report To: Day Engineering, P.C.	Invoice To: Day Engineering, P.C.	
1563 Lyell Avenue	1563 Lyell Avenue	Project No.: 16-34245
Rochester, NY 14606	Rochester, NY 14606	Site Name: 691 St Paul Street
		Location: Rochester State: NY
Tel #: 585-454-0210	Attn: Jeff Danzinger	Sampler(s): J. Danzinger; H. McLennan
Project Manager: Jeff Danzinger	P.O. No.: 16-34245 RQN:	

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)	Lab Id	Sample Id	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Analysis: TO-15 VOCs	Matrix: Indoor/Ambient Air	Matrix: Soil Gas	Check box if canister is returned unused
		LABORATORY USE ONLY																
0255	6	-30	-3	2841	13.4	38828-01	A-1	9/2/2017	854	1339	-30	-4			X	X		
16084	6	-30	-6	0060	13.5	-02	A-2	9/2/2017	835	1337	-30	-6			X	X		
0207	6	-30	-4	1316	13.8	-03	A-3	9/2/2017	839	1225	-31	-5			X	X		
0273	6	-30	-9	2975	13.8	-04	A-4	9/2/2017	838	1435	-29	-9			X	X		
7645	6	-30	-4	2883	13.6	-05	A-5	9/2/2017	837	1353	-31	-5			X	X		
~~5585~~	6	~~-30~~		~~0033~~	13.6		A-6	9/2/2017	1631	1427	-29	-3			X			
5565	6	-30	-6	0050	13.3	-06	A-7	9/2/2017	844	1444	-30	-6			X	X		
4629	6	-30	-3	0960	13.3	-07	A-8	9/2/2017	845	1430	-31	-5			X	A		
~~4607~~	6	~~-30~~		2846	13.7		A-9	9/2/2017							X			
0471	6	-30		2983	13.5		A-10	9/2/2017							X			

Date of Request: 8-28-17
Requested by: Jeff Danzinger
Company: Day Environmental
Location: Rochester NY
Date Needed: 9-1-17
Order #: 42272
Prepared by: KB

Total # Canisters: 25
LL Canisters: 25
Flow Controllers: 25
Flow Rate/Setting: 6 hrs
Filters: —
Gauge #: 15

Special Instructions/QC Requirements & Comments: Include SIM Exchanges. Only Report the Following VOCs: 1,1-Dichloroethene; Chloroethene; Cis-1,2-Dichloroethene, Trans-1,2-Dichloroethene; Trichloroethene (TCE), and Vinyl Chloride

I attest that all media has been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: Date:

Printed:

Client Use	Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)
Start		
Stop		

QA/QC Reporting Level:

☐ Standard ☐ NY ASP A* ☐ TIER II* ☐ MA CAM
☐ DQA* ☒ NY ASP B* ☐ TIER IV* ☐ CT RCP

* additional charge may apply contact ESAI's Client Service Dept for further info.

Please contact ESAI's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
Tony Cipriano	Tony Cipriano	9/5/2017	10:08
Tony Cipriano	JM	9/5/17	16:00

☒ EDD Format: NYSDEC Equis Excel
☒ E-mail Results to: jdanzinger@daymail.net

26.3 10/26.5 TO-15

Δ 5759

SC 38828@

Chain of Custody Record/Field Test Data Sheets for Air Analyses

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Special Handling:
☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 5 day preliminary
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.

Report To: Day Engineering, P.C.	**Invoice To:** Day Engineering, P.C.	**Project No.:** 16-34245
1563 Lyell Avenue	1563 Lyell Avenue	**Site Name:** 691 St. Paul Street
Rochester, NY 14606	Rochester, NY 14606	**Location:** Rochester **State:** NY
Tel #: 585 454-6110	**Attn:** Jeff Danzinger	**Sampler(s):** J. Danzinger, H. McLennan
Project Manager: Jeff Danzinger	**P.O. No.:** 16-34245 **RQN:**	

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)	Lab Id:	Sample Id:	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Analysis: TO-15 10day	Matrix: Indoor/Ambient Air	Matrix: Soil Gas	Check box if canister is returned unused
LABORATORY USE ONLY																		
7634	6	-30	-3	1315	13.6	38828-08	A-11	9/2/2017	843	1312	-30+	-6			X	X		
0473	6	-30	-2	0009	13.8	-09	A-12	9/2/2017	850	1254	-30+	-4			X	X		
5571	6	-30	-2	2871	13.4	-10	A-13	9/2/2017	851	1256	-30+	-5			X	X		
0486	6	-30	-4	0826	13.7	-11	A-14	9/2/2017	853	1301	-31	-5			X	X		
0269	6	-30	-4	2988	13.6	-12	A-15	9/2/2017	854	1139	-28	-3.5			X	X		
7641	6	-30		2869	13.6		A-16	9/2/2017							X	X		
0618	6	-30	-4	2923	13.5	-13	A-17	9/2/2017	856	1303	-31	-4			X	X		
5575	6	-30	-5	0002	13.5	-14	A-18	9/2/2017	901	1330	-30	-5.5			X	X		
5206	6	-30	-4	0069	13.2	-15	A-19	9/2/2017	900	1245	-30	-5			X	X		
4609	6	-30	-3	0038	13.7	-16	A-6	9/2/2017	1031	1427	-29	-3			X	X		

Date of Request: 8-28-17
Requested by: Jeff Danzinger
Company: Day Environmental
Location: Rochester, NY
Date Needed: 9-1-17
Order #: 42272
Prepared by: ICB

Total # Canisters: 25
LL Canisters: 25
Flow Controllers: 25
Flow Rate/Setting: 6hrs
Filters: —
Gauge #: 15

Special Instructions/QC Requirements & Comments: Include SIM Techniques. Only report the following VOCs: 1,1-Dichloroethene; Chloroethane; Cis-1,2-Dichloroethene; Trans-1,2-Dichloroethene; Trichloroethene (TCE); and Vinyl Chloride.

Client Use	Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)
Start		
Stop		

I attest that all media has been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: Date:
Printed:

QA/QC Reporting Level:
☐ Standard ☐ NY ASP A* ☐ TIER II* ☐ MA CAM
☐ DQA* ☒ NY ASP B* ☐ TIER IV* ☐ CT RCP
* additional charge may apply contact ESAI's Client Service Dept for further info.

Please contact ESAI's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
	Tom Cross	9/5/2017	10:08
Tom Cross	Jill	9/5/17	1600

☒ EDD Format: NYSDEC Equis Excel
☒ E-mail Results to: jdanzinger@rochester.rr.com

A 5760

SC 38828e

eurofins | Spectrum Analytical

Chain of Custody Record/Field Test Data Sheets for Air Analyses

Page 3 of 3

Special Handling:
☐ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.

Report To: Day Engineering, P.C.	**Invoice To:** Day Engineering, P.C.		
1563 Lyell Avenue	1563 Lyell Avenue	**Project No.:** 16-34245	
Rochester, NY 14606	Rochester, NY 14606	**Site Name:** 691 St Paul Street	
		Location: Rochester **State:** NY	
Tel #: 585-454-0210	**Attn:** Jeff Danzinger	**Sampler(s):** J. Danzinger, N. McLennan	
Project Manager: Jeff Danzinger	**P.O. No.:** 16-34245 **RQN:**		

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)	Lab Id:	Sample Id:	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Analysis: TO-15 VOCs	Matrix: Indoor /Ambient Air	Matrix: Soil Gas	Check box if canister is returned unused
LABORATORY USE ONLY																		
17161	6	-30		0986	13.7	[illegible]												
4561	6	-30		2865	13.4	[illegible]												
0673	6	-30	-4	2969	13.5	38828-17	A-16	9/2/2017	1099	1344	-29	-4			X	X		
16014	6	-30	-3	0058	13.8	-18	A-11	9/2/2017	1034	1434	-31	-4			X	X		
17156	6	-30	-4	0057	13.7	-19	A-10	9/2/2017	1003	1322	-29.5	-5			X	X		

Date of Request: 8-28-17	Total # Canisters: 25	**Special Instructions/QC Requirements & Comments:** Include 35M Tentative. Only report the following VOCs: 1,1-Dichloroethene; Chloroethene; cis-1,2-Dichloroethene; Trans-1,2-Dichloroethene; Trichloroethene (TCE) and Vinyl Chloride.	Client Use
Requested by: Jeff Danzinger	# LL Canisters: 25		Start
Company: Day Environmental	# Flow Controllers: 25		Stop
Location: Rochester, NY	Flow Rate/Setting: 6hrs		
Date Needed: 9-1-17	# Filters ——		
Order #: 42272	Gauge # 15		
Prepared by: KB			

Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)

I attest that all media has been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: Date:

Printed:

QA/QC Reporting Level:

☐ Standard ☐ NY ASP A* ☐ TIER II* ☐ MA CAM
☐ DQA* ☒ NY ASP B* ☐ TIER IV* ☐ CT RCP

* additional charge may apply contact ESAI's Client Service Dept for further info.

Please contact ESAI's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
[signature]	Day Cpy	9/5/2017	10:08
Day Cpy	[signature]	9/5/17	1600

☒ EDD Format NYSDEC EQuIS (Excel)
☒ E-mail Results to jdanzinger@daymail.net

5761

Batch Summary

1715233

Air Quality Analyses

1715233-BLK1
1715233-BLK2
1715233-BLK3
1715233-BLK4
1715233-BS1
1715233-BS2
1715233-BSD1
1715233-BSD2
SC38828-01 (A-1)
SC38828-02 (A-2)
SC38828-03 (A-3)
SC38828-04 (A-4)
SC38828-05 (A-5)
SC38828-06 (A-7)
SC38828-07 (A-8)

1715595

Air Quality Analyses

1715595-BLK1
1715595-BLK2
1715595-BLK3
1715595-BLK4
1715595-BS1
1715595-BS2
1715595-BSD1
1715595-BSD2
SC38828-02RE1 (A-2)
SC38828-08 (A-11)
SC38828-09 (A-12)
SC38828-10 (A-13)
SC38828-12 (A-15)
SC38828-13 (A-17)

1715604

Air Quality Analyses

1715604-BLK1
1715604-BLK2
1715604-BLK3
1715604-BLK4
1715604-BS1
1715604-BS2
1715604-BSD1
1715604-BSD2
SC38828-14 (A-18)
SC38828-15 (A-19)
SC38828-16 (A-6)
SC38828-17 (A-16)
SC38828-18 (A-9)
SC38828-19 (A-10)

1715713

Air Quality Analyses

1715713-BLK1
1715713-BLK2
1715713-BS1
1715713-BS2
1715713-BSD1
1715713-BSD2
SC38828-11 (A-14)

S707911

Air Quality Analyses

S707911-CAL1
S707911-CAL2
S707911-CAL3
S707911-CAL4
S707911-CAL5
S707911-CAL6
S707911-CAL7
S707911-CAL8
S707911-ICV1
S707911-LCV1
S707911-LCV2
S707911-TUN1

S707914

Air Quality Analyses

S707914-CAL1
S707914-CAL2
S707914-CAL3
S707914-CAL4
S707914-CAL5
S707914-CAL6
S707914-CAL7
S707914-CAL8
S707914-ICV1
S707914-LCV1
S707914-LCV2
S707914-LCV3
S707914-TUN1

S707918

Air Quality Analyses

S707918-CCV1
S707918-CCV2
S707918-CCV3
S707918-CRL1
S707918-CRL2
S707918-TUN1
S707918-TUN2

S707922

Air Quality Analyses

S707922-CCV1
S707922-CCV2
S707922-CCV3
S707922-CRL1
S707922-CRL2
S707922-TUN1
S707922-TUN2

S708094

Air Quality Analyses

S708094-CCV1
S708094-CCV2
S708094-CCV3
S708094-CRL1
S708094-CRL2
S708094-TUN1
S708094-TUN2

S708097

Air Quality Analyses

S708097-CCV1
S708097-CCV2
S708097-CCV3
S708097-CRL1
S708097-CRL2
S708097-CRL3
S708097-CRL4
S708097-TUN1
S708097-TUN2

S708104

Air Quality Analyses

S708104-CAL1
S708104-CAL2
S708104-CAL3
S708104-CAL4
S708104-CAL5
S708104-CAL6
S708104-CAL7
S708104-CAL8
S708104-ICV1
S708104-LCV1
S708104-TUN1

S708107

Air Quality Analyses

S708107-CAL1
S708107-CAL2
S708107-CAL3
S708107-CAL4
S708107-CAL5
S708107-CAL6
S708107-CAL7
S708107-CAL8
S708107-ICV1
S708107-LCV1
S708107-TUN1

S708113

Air Quality Analyses

S708113-CAL1
S708113-CAL2
S708113-CAL3
S708113-CAL4
S708113-CAL5
S708113-CAL6
S708113-CAL7
S708113-CAL8
S708113-ICV1
S708113-LCV1
S708113-LCV2
S708113-LCV3
S708113-TUN1

S708116

Air Quality Analyses

S708116-CAL1
S708116-CAL2
S708116-CAL3
S708116-CAL4
S708116-CAL5
S708116-CAL6
S708116-CAL7
S708116-CAL8
S708116-ICV1
S708116-LCV1
S708116-LCV2
S708116-TUN1

S708121

Air Quality Analyses

S708121-CCV1
S708121-CCV2
S708121-CCV3
S708121-CRL1
S708121-CRL2
S708121-TUN1
S708121-TUN2

S708137

Air Quality Analyses

S708137-CCV1
S708137-CCV2
S708137-CCV3
S708137-CRL1
S708137-CRL2
S708137-TUN1
S708137-TUN2

S708151

Air Quality Analyses

S708151-CCV1
S708151-CRL1
S708151-TUN1

S708152

Air Quality Analyses

S708152-CCV1
S708152-CRL1
S708152-TUN1