

April 3, 2018

Email: wendi.zheng@dec.ny.gov

Phone: (718) 482-7541

NYSDEC

Division of Environmental Remediation
1 Hunter's Point Plaza
47-40 21st Street
Long Island City, NY 11101-5407

Attn: Wendi Zheng

**Subject: Indoor Air Sampling at:
22-07 41st Avenue
Long Island City, NY 11101**

Dear Ms. Zheng:

On behalf of Stalingrad Ventures, LLC, Amec E&E, PC is providing you with the analytical results from the indoor air sampling performed at the above-referenced property on March 13, 2018. The sampling was completed as part of a vapor intrusion investigation requested by the New York State Department of Environmental Conservation (NYSDEC) in connection with the Former Hygrade Polishing and Plating Co. Site located at this address. The contaminants of concern with respect to this site are chlorinated volatile organic compounds (VOCs).

Samples were collected from the following locations:

- The basement;
- The first floor unit and eastern stair well;
- The second floor eastern stair well and western stair well;
- The third floor eastern stair well and western stair well;
- The fourth floor unit and eastern stair well; and
- The roof of the building.

Each sample was collected using a laboratory-issued SUMMA Canister equipped with a regulator provided by the laboratory and calibrated to fill over an 8-hour sampling period. One duplicate sample and one ambient air sample were included in the sampling event.

The samples were submitted to NYS ELAP-certified Alpha Analytical Laboratories and analyzed for VOCs according to USEPA Method TO-15. Summarized below and in the attached tables are the analytical results for the indoor air samples collected from within the building as well as the ambient (outdoor) air sample collected outside of your building. Additionally, site maps are attached with locations where the samples were taken.

Correspondence:

AMEC Environment & Infrastructure, Inc.
214-25 42nd Avenue, Suite 3R
Bayside, New York 11361 USA
Tel 347--836-4445

RESULTS:

There were no detections of VOCs above their prevailing NYSDOH Indoor Air Standards in any of the samples collected at the site. Therefore, the air quality is acceptable based on the standards established for these constituents. However, the compounds Ethanol, Isopropanol and Acetone were detected at elevated concentrations. The highest detections of these three compounds all occurred on or around the third floor of the building. This trend strongly suggests that the source of these detections is a result of chemical usage by the tenant located on the third floor of the building. As such, our client requests that the NYSDEC and/or the NYSDOH visit the site as soon as possible and perform an inspection of the tenant's operations. Any usage of these chemicals should be performed in strict accordance with prevailing regulations. The tenant should also be required to install any engineering controls necessary, such as hoods and exhaust fans, to prevent the migration of these vapors to other areas of the building.

If you have any questions regarding this correspondence please do not hesitate to contact me.

Sincerely,

Amec E&E, PC



Ben Hess
Project Engineer



Eric Weinstock
Principal Scientist

Enclosures: Analytical Data Tables, Sample Locations, Indoor Air Quality Questionnaire and Building Inventory

FIGURES

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22nd Street

SIDEWALK

NEW HOTEL BUILDING

STAIRWELL WEST

APPROXIMATE
PROPERTY BOUNDARY

PRIVATE
PARKING LOT

1F-IAQ-UNIT

1F-IAQ-SWE

STAIRWELL
EAST

SIDEWALK

41st Avenue

LEGEND



IAQ

INDOOR AIR SAMPLE
LOCATION



SCALE IN FEET

Prepared/Date: BJH 3/21/2018
Checked/Date: EAW 03/21/2018

Former Hygrade Plating
22-07 41st Ave
Long Island City, NY

Amec E & E, PC
1979 Marcus Ave., Suite 210
Lake Success, New York 11042
(516) 622-2254



INDOOR AIR SAMPLE LOCATIONS
1ST FLOOR
Project 3612-162-331
Figure 2

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22nd Street

SIDEWALK

NEW HOTEL BUILDING

STAIRWELL WEST

APPROXIMATE
PROPERTY BOUNDARY

PRIVATE
PARKING LOT

2F-IAQ-SWW

2F-IAQ-SWE

STAIRWELL
EAST

SIDEWALK

41st Avenue

LEGEND



IAQ

INDOOR AIR SAMPLE
LOCATION

0 10 20 40
SCALE IN FEET

Prepared/Date: BJH 3/21/2018
Checked/Date: EAW 03/21/2018

Former Hygrade Plating
22-07 41st Ave
Long Island City, NY

Amec E & E, PC
1979 Marcus Ave., Suite 210
Lake Success, New York 11042
(516) 622-2254



INDOOR AIR SAMPLE LOCATIONS
2ND FLOOR
Project 3612-162-331
Figure 3

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22nd Street

SIDEWALK

NEW HOTEL BUILDING

STAIRWELL WEST

3F-IAQ-SWW

APPROXIMATE
PROPERTY BOUNDARY

PRIVATE
PARKING LOT

3F-IAQ-SWE

STAIRWELL
EAST

SIDEWALK

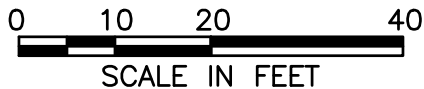
41st Avenue

LEGEND



IAQ

INDOOR AIR SAMPLE
LOCATION



Prepared/Date: BJH 3/21/2018
Checked/Date: EAW 03/21/2018

Former Hygrade Plating
22-07 41st Ave
Long Island City, NY

Amec E & E, PC
1979 Marcus Ave., Suite 210
Lake Success, New York 11042
(516) 622-2254



INDOOR AIR SAMPLE LOCATIONS
3RD FLOOR
Project 3612-162-331
Figure 4

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22nd Street

SIDEWALK

NEW HOTEL BUILDING

STAIRWELL WEST

APPROXIMATE PROPERTY BOUNDARY

PRIVATE PARKING LOT

4F-IAQ-UNIT

4F-IAQ-SWE

STAIRWELL EAST

SIDEWALK

41st Avenue

LEGEND



IAQ

INDOOR AIR SAMPLE LOCATION



SCALE IN FEET

Prepared/Date: BJH 3/21/2018
Checked/Date: EAW 03/21/2018

Former Hygrade Plating
22-07 41st Ave
Long Island City, NY

Amec E & E, PC
1979 Marcus Ave., Suite 210
Lake Success, New York 11042
(516) 622-2254



INDOOR AIR SAMPLE LOCATIONS
4TH FLOOR
Project 3612-162-331
Figure 5

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22nd Street

SIDEWALK

NEW HOTEL
BUILDING

APPROXIMATE
PROPERTY BOUNDARY

PRIVATE
PARKING LOT

BAS-IAQ-1

BAS-IAQ-X

SIDEWALK

41st Avenue

LEGEND



IAQ

INDOOR AIR SAMPLE
LOCATION

0 10 20 40
SCALE IN FEET

Prepared/Date: BJH 3/21/2018
Checked/Date: EAW 03/21/2018

Former Hygrade Plating
22-07 41st Ave
Long Island City, NY

Amec E & E, PC
214-25 42nd Avenue, Suite 3R
Bayside, New York 11361
(347) 836-4343



INDOOR AIR SAMPLE LOCATIONS
BASEMENT
Project 3612-162-331
Figure 1

C:\Users\benjamin.hess\Documents\Hygrade CAD Drawings\Indoor Air Sample Locations\ROOF-Fig-06.dwg Fri, 23 Mar 2018 3:24pm benjamin.hess

22nd Street

SIDEWALK

NEW HOTEL BUILDING

ROOF-AA

APPROXIMATE
PROPERTY BOUNDARY

PRIVATE
PARKING LOT

SIDEWALK

41st Avenue

LEGEND



AMBIENT AIR SAMPLE
LOCATION

0 10 20 40
SCALE IN FEET

Prepared/Date: BJH 3/21/2018
Checked/Date: EAW 03/21/2018

Former Hygrade Plating
22-07 41st Ave
Long Island City, NY

Amec E & E, PC
1979 Marcus Ave., Suite 210
Lake Success, New York 11042
(516) 622-2254



AMBIENT AIR SAMPLE LOCATION
ROOF
Project 3612-162-331
Figure 6

TABLES

TABLE 1: INDOOR AIR QUALITY ANALYSIS

22-07 41ST AVENUE
LONG ISLAND CITY, NY

PAGE 1 OF 6

SAMPLE NUMBER SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE LOCATION		BAS-IAQ-1 3/13/2018 L1808696-01 Indoor Air Basement		BAS-IAQ-X 3/13/2018 L1808696-02 Indoor Air Basement		1F-IAQ-UNIT 3/13/2018 L1808696-03 Indoor Air 1st Floor		1F-IAQ-SWE 3/13/2018 L1808696-04 Indoor Air 1st Floor	
ANALYTE (ug/m3)		NYSDOH Indoor Air Standard		Results	Qual	Results	Qual	Results	Qual
Volatile Organics in Air									
1,1,2,2-Tetrachloroethane	NS	1.37	U	1.37	U	1.37	U	1.37	U
1,1,2-Trichloroethane	NS	1.09	U	1.09	U	1.09	U	1.09	U
1,1-Dichloroethane	NS	0.809	U	0.809	U	0.809	U	0.809	U
1,2,4-Trichlorobenzene	NS	1.48	U	1.48	U	1.48	U	1.48	U
1,2,4-Trimethylbenzene	NS	0.983	U	0.983	U	0.983	U	0.983	U
1,2-Dibromoethane	NS	1.54	U	1.54	U	1.54	U	1.54	U
1,2-Dichlorobenzene	NS	1.2	U	1.2	U	1.2	U	1.2	U
1,2-Dichloroethane	NS	0.809	U	0.809	U	0.809	U	0.809	U
1,2-Dichloropropane	NS	0.924	U	0.924	U	0.924	U	0.924	U
1,3,5-Trimethylbenzene	NS	0.983	U	0.983	U	0.983	U	0.983	U
1,3-Butadiene	NS	0.442	U	0.442	U	0.442	U	0.442	U
1,3-Dichlorobenzene	NS	1.2	U	1.2	U	1.2	U	1.2	U
1,4-Dichlorobenzene	NS	1.2	U	1.2	U	1.2	U	1.2	U
1,4-Dioxane	NS	0.721	U	0.721	U	0.721	U	0.721	U
2,2,4-Trimethylpentane	NS	0.934	U	0.934	U	0.934	U	0.934	U
2-Butanone	NS	2.61		2.32		2.06		2.31	
2-Hexanone	NS	0.82	U	0.82	U	0.82	U	0.82	U
3-Chloropropene	NS	0.626	U	0.626	U	0.626	U	0.626	U
4-Ethyltoluene	NS	0.983	U	0.983	U	0.983	U	0.983	U
4-Methyl-2-pentanone	NS	2.05	U	2.05	U	2.05	U	2.05	U
Acetone	NS	11.5		13.7		17.4		20.8	
Benzene	NS	0.639	U	0.664		0.639	U	0.639	U
Benzyl chloride	NS	1.04	U	1.04	U	1.04	U	1.04	U
Bromodichloromethane	NS	1.34	U	1.34	U	1.34	U	1.34	U
Bromoform	NS	2.07	U	2.07	U	2.07	U	2.07	U
Bromomethane	NS	0.777	U	0.777	U	0.777	U	0.777	U
Carbon disulfide	NS	0.623	U	0.623	U	0.623	U	0.623	U
Chlorobenzene	NS	0.921	U	0.921	U	0.921	U	0.921	U
Chloroethane	NS	0.528	U	0.528	U	0.528	U	0.528	U
Chloroform	NS	0.977	U	0.977	U	0.977	U	0.977	U
Chloromethane	NS	0.96		0.985		0.981		1.03	
cis-1,3-Dichloropropene	NS	0.908	U	0.908	U	0.908	U	0.908	U
Notes:									
ug/m3		micrograms/cubic meter							
NS		No Standard							
U		Not detcted at the reported detection limit for the sample							
NYSDOH Indoor Air Standards		New York State Department of Health Soil Vapor Intrusion Guidance - monitor sub slab vapor and indoor air mitigation may be required as noted in Matrix tables							
						Prepared By: BJH		Checked By: EAW	

TABLE 1: INDOOR AIR QUALITY ANALYSIS

22-07 41ST AVENUE
LONG ISLAND CITY, NY

PAGE 2 OF 6

SAMPLE NUMBER SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE LOCATION		NYSDOH Indoor Air Standard	BAS-IAQ-1 3/13/2018 L1808696-01 Indoor Air Basement		BAS-IAQ-X 3/13/2018 L1808696-02 Indoor Air Basement		1F-IAQ-UNIT 3/13/2018 L1808696-03 Indoor Air 1st Floor		1F-IAQ-SWE 3/13/2018 L1808696-03 Indoor Air 1st Floor		
ANALYTE (ug/m3)			Results	Qual	Results	Qual	Results	Qual	Results	Qual	
Volatile Organics in Air											
Cyclohexane	NS	0.688	U	0.688	U	0.688	U	0.688	U		
Dibromochloromethane	NS	1.7	U	1.7	U	1.7	U	1.7	U		
Dichlorodifluoromethane	NS	2.42		2.49		2.47		2.49			
Ethanol	NS	11.2		12.1		22.6		38.4			
Ethyl Acetate	NS	1.8	U	1.8	U	1.8	U	1.8	U		
Ethylbenzene	NS	0.869	U	0.869	U	1.16		1.1			
Freon-113	NS	1.53	U	1.53	U	1.53	U	1.53	U		
Freon-114	NS	1.4	U	1.4	U	1.4	U	1.4	U		
Heptane	NS	0.82	U	0.82	U	0.82	U	0.82	U		
Hexachlorobutadiene	NS	2.13	U	2.13	U	2.13	U	2.13	U		
Isopropanol	NS	3.79		4.03		6.1		8.73			
Methyl tert butyl ether	NS	0.721	U	0.721	U	0.721	U	0.721	U		
Methylene chloride	60	1.74	U	1.74	U	1.74	U	1.74	U		
n-Hexane	NS	0.705	U	0.705	U	0.705	U	0.705	U		
o-Xylene	NS	1.39		1.36		3.75		3.21			
p/m-Xylene	NS	3.24		3.31		6.82		5.99			
Styrene	NS	0.852	U	0.852	U	0.852	U	0.852	U		
Tertiary butyl Alcohol	NS	1.52	U	1.52	U	1.52	U	1.52	U		
Tetrahydrofuran	NS	1.47	U	1.47	U	1.47	U	1.47	U		
Toluene	NS	4.71		7.01		6.63		7.42			
trans-1,2-Dichloroethene	NS	0.793	U	0.793	U	0.793	U	0.793	U		
trans-1,3-Dichloropropene	NS	0.908	U	0.908	U	0.908	U	0.908	U		
Trichlorofluoromethane	NS	1.31		1.38		1.33		1.37			
Vinyl bromide	NS	0.874	U	0.874	U	0.874	U	0.874	U		
Volatile Organics in Air by SIM											
1,1,1-Trichloroethane	NS	0.109	U	0.109	U	0.109	U	0.109	U		
1,1-Dichloroethene	NS	0.079	U	0.079	U	0.079	U	0.079	U		
Carbon tetrachloride	NS	0.421		0.453		0.459		0.478			
cis-1,2-Dichloroethene	NS	0.079	U	0.087		0.079	U	0.079	U		
Tetrachloroethene	30	0.685		0.651		0.746		0.943			
Trichloroethene	2	0.188		0.172		0.156		0.199			
Vinyl chloride	NS	0.051	U	0.051	U	0.051	U	0.051	U		
Notes:											
ug/m3		micrograms/cubic meter									
NS		No Standard									
U		Not detected at the reported detection limit for the sample									
NYSDOH Indoor Air Standards		New York State Department of Health Soil Vapor Intrusion Guidance - monitor sub slab vapor and indoor air mitigation may be required as noted in Matrix tables									
						Prepared By: BJH			Checked By: EAW		

TABLE 1: INDOOR AIR QUALITY ANALYSIS

22-07 41ST AVENUE
LONG ISLAND CITY, NY

PAGE 3 OF 6

SAMPLE NUMBER SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE LOCATION		2F-IAQ-SWE 3/13/2018 L1808696-05 Indoor Air 2nd Floor	2F-IAQ-SWW 3/13/2018 L1808696-06 Indoor Air 2nd Floor	3F-IAQ-SWE 3/13/2018 L1808696-07 Indoor Air 3rd Floor	3F-IAQ-SWW 3/13/2018 L1808696-08 Indoor Air 3rd Floor
ANALYTE (ug/m3)	NYSDOH Indoor Air Standard				
Volatile Organics in Air					
1,1,2,2-Tetrachloroethane	NS	1.37	U	1.37	U
1,1,2-Trichloroethane	NS	1.09	U	1.09	U
1,1-Dichloroethane	NS	0.809	U	0.809	U
1,2,4-Trichlorobenzene	NS	1.48	U	1.48	U
1,2,4-Trimethylbenzene	NS	0.983	U	0.983	U
1,2-Dibromoethane	NS	1.54	U	1.54	U
1,2-Dichlorobenzene	NS	1.2	U	1.2	U
1,2-Dichloroethane	NS	0.809	U	0.809	U
1,2-Dichloropropane	NS	0.924	U	0.924	U
1,3,5-Trimethylbenzene	NS	0.983	U	0.983	U
1,3-Butadiene	NS	0.442	U	0.442	U
1,3-Dichlorobenzene	NS	1.2	U	1.2	U
1,4-Dichlorobenzene	NS	1.2	U	1.2	U
1,4-Dioxane	NS	0.721	U	0.721	U
2,2,4-Trimethylpentane	NS	0.934	U	0.934	U
2-Butanone	NS	2.38		2.89	
2-Hexanone	NS	0.82	U	0.82	U
3-Chloropropene	NS	0.626	U	0.626	U
4-Ethyltoluene	NS	0.983	U	0.983	U
4-Methyl-2-pentanone	NS	2.05	U	2.05	U
Acetone	NS	43.2		276	
Benzene	NS	0.639	U	0.658	
Benzyl chloride	NS	1.04	U	1.04	U
Bromodichloromethane	NS	1.34	U	1.34	U
Bromoform	NS	2.07	U	2.07	U
Bromomethane	NS	0.777	U	0.777	U
Carbon disulfide	NS	0.623	U	0.623	U
Chlorobenzene	NS	0.921	U	0.921	U
Chloroethane	NS	0.528	U	0.528	U
Chloroform	NS	0.977	U	0.977	U
Chloromethane	NS	1.07		1.06	
cis-1,3-Dichloropropene	NS	0.908	U	0.908	U
Notes:					
ug/m3	micrograms/cubic meter				
NS	No Standard				
U	Not detcted at the reported detection limit for the sample				
NYSDOH Indoor Air Standards	New York State Department of Health Soil Vapor Intrusion Guidance - monitor sub slab vapor and indoor air mitigation may be required as noted in Matrix tables				
				Prepared By: BJH	Checked By: EAW

TABLE 1: INDOOR AIR QUALITY ANALYSIS

22-07 41ST AVENUE
LONG ISLAND CITY, NY

PAGE 4 OF 6

SAMPLE NUMBER SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE LOCATION		2F-IAQ-SWE 3/13/2018 L1808696-05 Indoor Air 2nd Floor	2F-IAQ-SWW 3/13/2018 L1808696-06 Indoor Air 2nd Floor	3F-IAQ-SWE 3/13/2018 L1808696-07 Indoor Air 3rd Floor	3F-IAQ-SWW 3/13/2018 L1808696-08 Indoor Air 3rd Floor				
ANALYTE (ug/m3)	NYSDOH Indoor Air Standard	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics in Air									
Cyclohexane	NS	0.688	U	0.688	U	0.688	U	0.688	U
Dibromochloromethane	NS	1.7	U	1.7	U	1.7	U	1.7	U
Dichlorodifluoromethane	NS	2.5		2.3		2.27		2.47	
Ethanol	NS	147		347		590		388	
Ethyl Acetate	NS	1.91		4.29		9.73		8.65	
Ethylbenzene	NS	1.32		1.66		2.05		2.79	
Freon-113	NS	1.53	U	1.53	U	1.53	U	1.53	U
Freon-114	NS	1.4	U	1.4	U	1.4	U	1.4	U
Heptane	NS	0.82	U	0.82	U	0.832		0.82	U
Hexachlorobutadiene	NS	2.13	U	2.13	U	2.13	U	2.13	U
Isopropanol	NS	25.1		66.4		97.3		77.2	
Methyl tert butyl ether	NS	0.721	U	0.721	U	0.721	U	0.721	U
Methylene chloride	60	1.74	U	1.74	U	1.74	U	1.74	U
n-Hexane	NS	0.705	U	0.705	U	0.705	U	0.705	U
o-Xylene	NS	4.17		6.25		7.47		11.8	
p/m-Xylene	NS	7.6		10.6		12.7		18.5	
Styrene	NS	0.852	U	0.852	U	0.852	U	0.852	U
Tertiary butyl Alcohol	NS	1.52	U	1.52	U	1.52	U	1.52	U
Tetrahydrofuran	NS	1.47	U	1.47	U	1.47	U	1.47	U
Toluene	NS	7.5		5.8		7.27		5.92	
trans-1,2-Dichloroethene	NS	0.793	U	0.793	U	0.793	U	0.793	U
trans-1,3-Dichloropropene	NS	0.908	U	0.908	U	0.908	U	0.908	U
Trichlorofluoromethane	NS	1.38		1.43		1.44		1.4	
Vinyl bromide	NS	0.874	U	0.874	U	0.874	U	0.874	U
Volatile Organics in Air by SIM									
1,1,1-Trichloroethane	NS	0.109	U	0.109	U	0.109	U	0.109	U
1,1-Dichloroethene	NS	0.079	U	0.079	U	0.079	U	0.079	U
Carbon tetrachloride	NS	0.434		0.528		0.434		0.447	
cis-1,2-Dichloroethene	NS	0.107		0.198		0.305		0.258	
Tetrachloroethene	30	1.19		2.16		3.34		3.27	
Trichloroethene	2	0.269		0.666		1.03		0.876	
Vinyl chloride	NS	0.051	U	0.051	U	0.051	U	0.051	U
Notes:									
ug/m3	micrograms/cubic meter								
NS	No Standard								
U	Not detected at the reported detection limit for the sample								
NYSDOH Indoor Air Standards	New York State Department of Health Soil Vapor Intrusion Guidance - monitor sub slab vapor and indoor air mitigation may be required as noted in Matrix tables								
						Prepared By: BJH		Checked By: EAW	

TABLE 1: INDOOR AIR QUALITY ANALYSIS

22-07 41ST AVENUE
LONG ISLAND CITY, NY

PAGE 5 OF 6

SAMPLE NUMBER SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE LOCATION		4F-IAQ-UNIT 3/13/2018 L1808696-09 Indoor Air 4th Floor		4F-IAQ-SWE 3/13/2018 L1808696-10 Indoor Air 4th Floor		ROOF-AA 3/13/2018 L1808696-11 Ambient Air Roof	
NYSDOH Indoor Air Standard		Results	Qual	Results	Qual	Results	Qual
ANALYTE (ug/m3)							
Volatile Organics in Air							
1,1,2,2-Tetrachloroethane	NS	1.37	U	1.37	U	1.37	U
1,1,2-Trichloroethane	NS	1.09	U	1.09	U	1.09	U
1,1-Dichloroethane	NS	0.809	U	0.809	U	0.809	U
1,2,4-Trichlorobenzene	NS	1.48	U	1.48	U	1.48	U
1,2,4-Trimethylbenzene	NS	0.983	U	0.983	U	0.983	U
1,2-Dibromoethane	NS	1.54	U	1.54	U	1.54	U
1,2-Dichlorobenzene	NS	1.2	U	1.2	U	1.2	U
1,2-Dichloroethane	NS	0.809	U	0.809	U	0.809	U
1,2-Dichloropropane	NS	0.924	U	0.924	U	0.924	U
1,3,5-Trimethylbenzene	NS	0.983	U	0.983	U	0.983	U
1,3-Butadiene	NS	0.442	U	0.442	U	0.442	U
1,3-Dichlorobenzene	NS	1.2	U	1.2	U	1.2	U
1,4-Dichlorobenzene	NS	1.2	U	1.2	U	1.2	U
1,4-Dioxane	NS	0.721	U	0.721	U	0.721	U
2,2,4-Trimethylpentane	NS	0.934	U	0.934	U	0.934	U
2-Butanone	NS	3.01		3.01		1.47	U
2-Hexanone	NS	0.82	U	0.82	U	0.82	U
3-Chloropropene	NS	0.626	U	0.626	U	0.626	U
4-Ethyltoluene	NS	0.983	U	0.983	U	0.983	U
4-Methyl-2-pentanone	NS	2.05	U	2.05	U	2.05	U
Acetone	NS	224		340		13.8	
Benzene	NS	0.722		0.687		0.639	U
Benzyl chloride	NS	1.04	U	1.04	U	1.04	U
Bromodichloromethane	NS	1.34	U	1.34	U	1.34	U
Bromoform	NS	2.07	U	2.07	U	2.07	U
Bromomethane	NS	0.777	U	0.777	U	0.777	U
Carbon disulfide	NS	0.623	U	0.623	U	0.623	U
Chlorobenzene	NS	0.921	U	0.921	U	0.921	U
Chloroethane	NS	0.528	U	0.528	U	0.528	U
Chloroform	NS	0.977	U	0.977	U	0.977	U
Chloromethane	NS	1.09		1.06		1.04	
cis-1,3-Dichloropropene	NS	0.908	U	0.908	U	0.908	U
Notes:							
ug/m3		micrograms/cubic meter					
NS		No Standard					
U		Not detected at the reported detection limit for the sample					
NYSDOH Indoor Air Standards		New York State Department of Health Soil Vapor Intrusion Guidance - monitor indoor air mitigation may be required as noted in Matrix tables					
				Prepared By: BJH		Checked By: EAW	

TABLE 1: INDOOR AIR QUALITY ANALYSIS

22-07 41ST AVENUE
LONG ISLAND CITY, NY

PAGE 6 OF 6

SAMPLE NUMBER SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE LOCATION		4F-IAQ-UNIT 3/13/2018 L1808696-09 Indoor Air 4th Floor		4F-IAQ-SWE 3/13/2018 L1808696-10 Indoor Air 4th Floor		ROOF-AA 3/13/2018 L1808696-11 Ambient Air Roof	
NYSDOH Indoor Air Standard		Results	Qual	Results	Qual	Results	Qual
ANALYTE (ug/m3)							
Volatile Organics in Air							
Cyclohexane	NS	0.688	U	0.688	U	0.688	U
Dibromochloromethane	NS	1.7	U	1.7	U	1.7	U
Dichlorodifluoromethane	NS	2.44		2.44		2.51	
Ethanol	NS	388		492		13.4	
Ethyl Acetate	NS	8.9		11.1		1.8	U
Ethylbenzene	NS	2.74		2.1		0.869	U
Freon-113	NS	1.53	U	1.53	U	1.53	U
Freon-114	NS	1.4	U	1.4	U	1.4	U
Heptane	NS	0.82	U	0.82	U	0.82	U
Hexachlorobutadiene	NS	2.13	U	2.13	U	2.13	U
Isopropanol	NS	74.7		81.6		5.33	
Methyl tert butyl ether	NS	0.721	U	0.721	U	0.721	U
Methylene chloride	60	1.74	U	1.74	U	1.74	U
n-Hexane	NS	0.705	U	0.705	U	0.705	U
o-Xylene	NS	11.6		7.77		0.869	U
p/m-Xylene	NS	18.3		12.9		2.78	
Styrene	NS	0.852	U	0.852	U	0.852	U
Tertiary butyl Alcohol	NS	1.52	U	1.52	U	1.52	U
Tetrahydrofuran	NS	1.47	U	1.47	U	1.47	U
Toluene	NS	6.14		7.24		8.97	
trans-1,2-Dichloroethene	NS	0.793	U	0.793	U	0.793	U
trans-1,3-Dichloropropene	NS	0.908	U	0.908	U	0.908	U
Trichlorofluoromethane	NS	1.35		1.34		1.38	
Vinyl bromide	NS	0.874	U	0.874	U	0.874	U
Volatile Organics in Air by SIM							
1,1,1-Trichloroethane	NS	0.109	U	0.109	U	0.109	U
1,1-Dichloroethene	NS	0.079	U	0.079	U	0.079	U
Carbon tetrachloride	NS	0.434		0.465		0.528	
cis-1,2-Dichloroethene	NS	0.234		0.274		0.079	U
Tetrachloroethene	30	3.29		3.53		0.441	
Trichloroethene	2	0.855		1		0.107	U
Vinyl chloride	NS	0.051	U	0.051	U	0.051	U
Notes:							
ug/m3		micrograms/cubic meter					
NS		No Standard					
U		Not detected at the reported detection limit for the sample					
NYSDOH Indoor Air Standards		New York State Department of Health Soil Vapor Intrusion Guidance - monitors indoor air mitigation may be required as noted in Matrix tables					
				Prepared By: BJH		Checked By: EAW	

DUSR

**DATA USABILITY SUMMARY REPORT
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK**

1.0 INTRODUCTION

Air samples were collected at the Hygrade site in March 2018 and submitted to Alpha Analytical Laboratories located in Marshfield, Massachusetts for analysis. Samples were analyzed by the following method:

- Volatile organic compounds (VOCs) by USEPA Method TO-15 and TO-15 SIM

Results were reported in the following sample delivery group (SDG):

- L1808696

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010). Sample event information included in this DUSR is presented in the following tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Qualification Action Summary

Laboratory deliverables included:

- Category B deliverable as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the following evaluations. Control limits specified in Method TO-15 were used for calibration and lab control samples. Limits are summarized in Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Samples (LCS)
- Surrogate Spikes (if applicable)
- Field Duplicates (none collected)
- Target Analyte Identification and Quantitation
- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory or data review qualifiers are used in the final data presentation:

U = target analyte is not detected above the reported detection limit
J = concentration is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 EXECUTIVE SUMMARY

Based on the DUSR review the analytical data meet the data quality objectives, and the majority of sample results are interpreted to be usable as reported by the laboratory. Results for a subset of samples were qualified due to field duplicate precision.

3.0 DATA QUALIFICATION ACTIONS AND OBSERVATIONS

Canister pressure for samples 1F-IAQ-UNIT and BAS-IAQ-1 were measured at slight negative pressure in the field at the end of collection and slight positive pressure when received at the laboratory. Flow controller rates were checked at the lab indicating that a higher rate of sampling had occurred for these samples. Leak checks on the canisters at the laboratory indicated no leaks had occurred and that canister passed the receipt check. Results were accepted without qualification.

A field duplicate (BAS-IAQ-X) was collected at location BAS-IAQ-1. Results matched well for most target compounds. For benzene and cis-1,2-dichloroethene detections were reported in the field duplicate and not in the original sample. Concentrations detected in the field duplicate were slightly greater than the reporting limit. This is not interpreted to indicate a significant data usability issue. Results for benzene and cis-1,2-dichloroethene were qualified as estimated values (J/UJ) with reason code FD.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA Region 2, 2006. "Validating Volatile Organic Analysis of Ambient Air in Canister by Method TO-15"; SOP # HW-31, Revision 4, Hazardous Waste Support Branch; October 2006.

Data Validator: Julie Ricardi



March 30, 2018

*Former Hygrade Site, Long Island City, NY
NYSDEC BCP Site #C241148
Wood Environment and Infrastructure Solutions.*

Project No. 3612162331

Reviewed by:

A handwritten signature in black ink that reads "Chris Richards". The signature is written in a cursive style with a large, looping "C" and "R".

March 30, 2018

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
DATA USABILITY SUMMARY REPORT
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

SDG	Location	Sample ID	Date Collected	Matrix	Lab Sample ID	Type	TO-15	TO15 SIM
L1808696	1F-IAQ-SWE	1F-IAQ-SWE	3/13/2018	AIR	L1808696-04	FS	56	7
L1808696	1F-IAQ-UNIT	1F-IAQ-UNIT	3/13/2018	AIR	L1808696-03	FS	56	7
L1808696	2F-IAQ-SWE	2F-IAQ-SWE	3/13/2018	AIR	L1808696-05	FS	56	7
L1808696	2F-IAQ-SWW	2F-IAQ-SWW	3/13/2018	AIR	L1808696-06	FS	56	7
L1808696	3F-IAQ-SWE	3F-IAQ-SWE	3/13/2018	AIR	L1808696-07	FS	56	7
L1808696	3F-IAQ-SWW	3F-IAQ-SWW	3/13/2018	AIR	L1808696-08	FS	56	7
L1808696	4F-IAQ-SWE	4F-IAQ-SWE	3/13/2018	AIR	L1808696-10	FS	56	7
L1808696	4F-IAQ-UNIT	4F-IAQ-UNIT	3/13/2018	AIR	L1808696-09	FS	56	7
L1808696	BAS-IAQ-1	BAS-IAQ-1	3/13/2018	AIR	L1808696-01	FS	56	7
L1808696	BAS-IAQ-1	BAS-IAQ-X	3/13/2018	AIR	L1808696-02	FD	56	7
L1808696	ROOF-AA	ROOF-AA	3/13/2018	AIR	L1808696-11	FS	56	7

Notes:

FS = field sample

FD = field duplicate

The number of reported parameters is listed under each method

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

			SDG:	L1808696		L1808696		L1808696		L1808696	
			Location:	1F-IAQ-SWE		1F-IAQ-UNIT		2F-IAQ-SWE		2F-IAQ-SWW	
			Date Collected:	03/13/18		03/13/18		03/13/18		03/13/18	
			Sample ID:	1F-IAQ-SWE		1F-IAQ-UNIT		2F-IAQ-SWE		2F-IAQ-SWW	
			Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualif	Final Result	Final Qualif	Final Result	Final Qualif	Final Result	Final Qualif	
TO-15	UG/M3	1,1,2,2-Tetrachloroethane	1.37	U	1.37	U	1.37	U	1.37	U	
TO-15	UG/M3	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.53	U	1.53	U	1.53	U	1.53	U	
TO-15	UG/M3	1,1,2-Trichloroethane	1.09	U	1.09	U	1.09	U	1.09	U	
TO-15	UG/M3	1,1-Dichloroethane	0.809	U	0.809	U	0.809	U	0.809	U	
TO-15	UG/M3	1,2,4-Trichlorobenzene	1.48	U	1.48	U	1.48	U	1.48	U	
TO-15	UG/M3	1,2,4-Trimethylbenzene	0.983	U	0.983	U	0.983	U	0.983	U	
TO-15	UG/M3	1,2-Dibromoethane	1.54	U	1.54	U	1.54	U	1.54	U	
TO-15	UG/M3	1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	U	1.4	U	1.4	U	1.4	U	
TO-15	UG/M3	1,2-Dichlorobenzene	1.2	U	1.2	U	1.2	U	1.2	U	
TO-15	UG/M3	1,2-Dichloroethane	0.809	U	0.809	U	0.809	U	0.809	U	
TO-15	UG/M3	1,2-Dichloropropane	0.924	U	0.924	U	0.924	U	0.924	U	
TO-15	UG/M3	1,3,5-Trimethylbenzene	0.983	U	0.983	U	0.983	U	0.983	U	
TO-15	UG/M3	1,3-Butadiene	0.442	U	0.442	U	0.442	U	0.442	U	
TO-15	UG/M3	1,3-Dichlorobenzene	1.2	U	1.2	U	1.2	U	1.2	U	
TO-15	UG/M3	1,4-Dichlorobenzene	1.2	U	1.2	U	1.2	U	1.2	U	
TO-15	UG/M3	1,4-Dioxane	0.721	U	0.721	U	0.721	U	0.721	U	
TO-15	UG/M3	2-Butanone	2.31		2.06		2.38		2.34		
TO-15	UG/M3	2-Hexanone	0.82	U	0.82	U	0.82	U	0.82	U	
TO-15	UG/M3	2-Propanol	8.73		6.1		25.1		66.4		
TO-15	UG/M3	4-Ethyltoluene	0.983	U	0.983	U	0.983	U	0.983	U	
TO-15	UG/M3	4-Methyl-2-pentanone	2.05	U	2.05	U	2.05	U	2.05	U	
TO-15	UG/M3	Acetone	20.8		17.4		43.2		89.8		
TO-15	UG/M3	Allyl chloride	0.626	U	0.626	U	0.626	U	0.626	U	
TO-15	UG/M3	Benzene	0.639	U	0.639	U	0.639	U	0.639	U	
TO-15	UG/M3	Benzyl chloride	1.04	U	1.04	U	1.04	U	1.04	U	

prepared by WCG
reviewed by CSR
3/30/18

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

			SDG:	L1808696		L1808696		L1808696		L1808696	
			Location:	1F-IAQ-SWE		1F-IAQ-UNIT		2F-IAQ-SWE		2F-IAQ-SWW	
			Date Collected:	03/13/18		03/13/18		03/13/18		03/13/18	
			Sample ID:	1F-IAQ-SWE		1F-IAQ-UNIT		2F-IAQ-SWE		2F-IAQ-SWW	
			Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualif	Final Result	Final Qualif	Final Result	Final Qualif	Final Result	Final Qualif	
TO-15	UG/M3	Bromodichloromethane	1.34 U		1.34 U		1.34 U		1.34 U		
TO-15	UG/M3	Bromoform	2.07 U		2.07 U		2.07 U		2.07 U		
TO-15	UG/M3	Bromomethane	0.777 U		0.777 U		0.777 U		0.777 U		
TO-15	UG/M3	Carbon disulfide	0.623 U		0.623 U		0.623 U		0.623 U		
TO-15	UG/M3	Chlorobenzene	0.921 U		0.921 U		0.921 U		0.921 U		
TO-15	UG/M3	Chloroethane	0.528 U		0.528 U		0.528 U		0.528 U		
TO-15	UG/M3	Chloroform	0.977 U		0.977 U		0.977 U		0.977 U		
TO-15	UG/M3	Chloromethane	1.03		0.981		1.07		0.985		
TO-15	UG/M3	Cis-1,3-Dichloropropene	0.908 U		0.908 U		0.908 U		0.908 U		
TO-15	UG/M3	Cyclohexane	0.688 U		0.688 U		0.688 U		0.688 U		
TO-15	UG/M3	Dibromochloromethane	1.7 U		1.7 U		1.7 U		1.7 U		
TO-15	UG/M3	Dichlorodifluoromethane	2.49		2.47		2.5		2.3		
TO-15	UG/M3	Ethanol	38.4		22.6		147		347		
TO-15	UG/M3	Ethyl acetate	1.8 U		1.8 U		1.91		4.29		
TO-15	UG/M3	Ethylbenzene	1.1		1.16		1.32		1.66		
TO-15	UG/M3	Heptane	0.82 U		0.82 U		0.82 U		0.82 U		
TO-15	UG/M3	Hexachlorobutadiene	2.13 U		2.13 U		2.13 U		2.13 U		
TO-15	UG/M3	Hexane	0.705 U		0.705 U		0.705 U		0.705 U		
TO-15	UG/M3	Isooctane	0.934 U		0.934 U		0.934 U		0.934 U		
TO-15	UG/M3	Methyl Tertbutyl Ether	0.721 U		0.721 U		0.721 U		0.721 U		
TO-15	UG/M3	Methylene chloride	1.74 U		1.74 U		1.74 U		1.74 U		
TO-15	UG/M3	Styrene	0.852 U		0.852 U		0.852 U		0.852 U		
TO-15	UG/M3	t-Butyl alcohol	1.52 U		1.52 U		1.52 U		1.52 U		
TO-15	UG/M3	Tetrahydrofuran	1.47 U		1.47 U		1.47 U		1.47 U		
TO-15	UG/M3	Toluene	7.42		6.63		7.5		5.8		

prepared by WCG
reviewed by CSR
3/30/18

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

			SDG:	L1808696	L1808696	L1808696	L1808696	
			Location:	1F-IAQ-SWE	1F-IAQ-UNIT	2F-IAQ-SWE	2F-IAQ-SWW	
			Date Collected:	03/13/18	03/13/18	03/13/18	03/13/18	
			Sample ID:	1F-IAQ-SWE	1F-IAQ-UNIT	2F-IAQ-SWE	2F-IAQ-SWW	
			Type:	FS	FS	FS	FS	
Method	Unit	Parameter	Final Result	Final Qualif	Final Result	Final Qualif	Final Result	Final Qualif
TO-15	UG/M3	trans-1,2-Dichloroethene	0.793 U		0.793 U		0.793 U	
TO-15	UG/M3	trans-1,3-Dichloropropene	0.908 U		0.908 U		0.908 U	
TO-15	UG/M3	Trichlorofluoromethane	1.37		1.33		1.38	
TO-15	UG/M3	Vinyl bromide	0.874 U		0.874 U		0.874 U	
TO-15	UG/M3	Xylene, o	3.21		3.75		4.17	
TO-15	UG/M3	Xylenes, (o&p)	5.99		6.82		7.6	
TO15 SIM	UG/M3	1,1,1-Trichloroethane	0.109 U		0.109 U		0.109 U	
TO15 SIM	UG/M3	1,1-Dichloroethene	0.079 U		0.079 U		0.079 U	
TO15 SIM	UG/M3	Carbon tetrachloride	0.478		0.459		0.434	
TO15 SIM	UG/M3	Cis-1,2-Dichloroethene	0.079 U		0.079 U		0.107	
TO15 SIM	UG/M3	Tetrachloroethene	0.943		0.746		1.19	
TO15 SIM	UG/M3	Trichloroethene	0.199		0.156		0.269	
TO15 SIM	UG/M3	Vinyl chloride	0.051 U		0.051 U		0.051 U	

Notes:

U = undetected

J = estimated value

FS = field sample

FD = field duplicate

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

			SDG:	L1808696		L1808696		L1808696		L1808696	
			Location:	3F-IAQ-SWE		3F-IAQ-SWW		4F-IAQ-SWE		4F-IAQ-UNIT	
			Date Collected:	03/13/18		03/13/18		03/13/18		03/13/18	
			Sample ID:	3F-IAQ-SWE		3F-IAQ-SWW		4F-IAQ-SWE		4F-IAQ-UNIT	
			Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualif	Final Result	Final Qualif	Final Result	Final Qualif	Final Result	Final Qualif	
TO-15	UG/M3	1,1,2,2-Tetrachloroethane	1.37	U	1.37	U	1.37	U	1.37	U	
TO-15	UG/M3	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.53	U	1.53	U	1.53	U	1.53	U	
TO-15	UG/M3	1,1,2-Trichloroethane	1.09	U	1.09	U	1.09	U	1.09	U	
TO-15	UG/M3	1,1-Dichloroethane	0.809	U	0.809	U	0.809	U	0.809	U	
TO-15	UG/M3	1,2,4-Trichlorobenzene	1.48	U	1.48	U	1.48	U	1.48	U	
TO-15	UG/M3	1,2,4-Trimethylbenzene	0.983	U	0.983	U	0.983	U	0.983	U	
TO-15	UG/M3	1,2-Dibromoethane	1.54	U	1.54	U	1.54	U	1.54	U	
TO-15	UG/M3	1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	U	1.4	U	1.4	U	1.4	U	
TO-15	UG/M3	1,2-Dichlorobenzene	1.2	U	1.2	U	1.2	U	1.2	U	
TO-15	UG/M3	1,2-Dichloroethane	0.809	U	0.809	U	0.809	U	0.809	U	
TO-15	UG/M3	1,2-Dichloropropane	0.924	U	0.924	U	0.924	U	0.924	U	
TO-15	UG/M3	1,3,5-Trimethylbenzene	0.983	U	0.983	U	0.983	U	0.983	U	
TO-15	UG/M3	1,3-Butadiene	0.442	U	0.442	U	0.442	U	0.442	U	
TO-15	UG/M3	1,3-Dichlorobenzene	1.2	U	1.2	U	1.2	U	1.2	U	
TO-15	UG/M3	1,4-Dichlorobenzene	1.2	U	1.2	U	1.2	U	1.2	U	
TO-15	UG/M3	1,4-Dioxane	0.721	U	0.721	U	0.721	U	0.721	U	
TO-15	UG/M3	2-Butanone	2.89		2.98		3.01		3.01		
TO-15	UG/M3	2-Hexanone	0.82	U	0.82	U	0.82	U	0.82	U	
TO-15	UG/M3	2-Propanol	97.3		77.2		81.6		74.7		
TO-15	UG/M3	4-Ethyltoluene	0.983	U	0.983	U	0.983	U	0.983	U	
TO-15	UG/M3	4-Methyl-2-pentanone	2.05	U	2.05	U	2.05	U	2.05	U	
TO-15	UG/M3	Acetone	276		210		340		224		
TO-15	UG/M3	Allyl chloride	0.626	U	0.626	U	0.626	U	0.626	U	
TO-15	UG/M3	Benzene	0.658		0.687		0.687		0.722		
TO-15	UG/M3	Benzyl chloride	1.04	U	1.04	U	1.04	U	1.04	U	

prepared by WCG
reviewed by CSR
3/30/18

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

			SDG:	L1808696	L1808696	L1808696	L1808696	
			Location:	3F-IAQ-SWE	3F-IAQ-SWW	4F-IAQ-SWE	4F-IAQ-UNIT	
			Date Collected:	03/13/18	03/13/18	03/13/18	03/13/18	
			Sample ID:	3F-IAQ-SWE	3F-IAQ-SWW	4F-IAQ-SWE	4F-IAQ-UNIT	
			Type:	FS	FS	FS	FS	
Method	Unit	Parameter	Final Result	Final Qualif	Final Result	Final Qualif	Final Result	Final Qualif
TO-15	UG/M3	Bromodichloromethane	1.34 U		1.34 U		1.34 U	
TO-15	UG/M3	Bromoform	2.07 U		2.07 U		2.07 U	
TO-15	UG/M3	Bromomethane	0.777 U		0.777 U		0.777 U	
TO-15	UG/M3	Carbon disulfide	0.623 U		0.623 U		0.623 U	
TO-15	UG/M3	Chlorobenzene	0.921 U		0.921 U		0.921 U	
TO-15	UG/M3	Chloroethane	0.528 U		0.528 U		0.528 U	
TO-15	UG/M3	Chloroform	0.977 U		0.977 U		0.977 U	
TO-15	UG/M3	Chloromethane	1.06		1.08		1.06	
TO-15	UG/M3	Cis-1,3-Dichloropropene	0.908 U		0.908 U		0.908 U	
TO-15	UG/M3	Cyclohexane	0.688 U		0.688 U		0.688 U	
TO-15	UG/M3	Dibromochloromethane	1.7 U		1.7 U		1.7 U	
TO-15	UG/M3	Dichlorodifluoromethane	2.27		2.47		2.44	
TO-15	UG/M3	Ethanol	590		388		492	
TO-15	UG/M3	Ethyl acetate	9.73		8.65		11.1	
TO-15	UG/M3	Ethylbenzene	2.05		2.79		2.1	
TO-15	UG/M3	Heptane	0.832		0.82 U		0.82 U	
TO-15	UG/M3	Hexachlorobutadiene	2.13 U		2.13 U		2.13 U	
TO-15	UG/M3	Hexane	0.705 U		0.705 U		0.705 U	
TO-15	UG/M3	Isooctane	0.934 U		0.934 U		0.934 U	
TO-15	UG/M3	Methyl Tertbutyl Ether	0.721 U		0.721 U		0.721 U	
TO-15	UG/M3	Methylene chloride	1.74 U		1.74 U		1.74 U	
TO-15	UG/M3	Styrene	0.852 U		0.852 U		0.852 U	
TO-15	UG/M3	t-Butyl alcohol	1.52 U		1.52 U		1.52 U	
TO-15	UG/M3	Tetrahydrofuran	1.47 U		1.47 U		1.47 U	
TO-15	UG/M3	Toluene	7.27		5.92		7.24	

prepared by WCG
reviewed by CSR
3/30/18

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

			SDG:	L1808696	L1808696	L1808696	L1808696	
			Location:	3F-IAQ-SWE	3F-IAQ-SWW	4F-IAQ-SWE	4F-IAQ-UNIT	
			Date Collected:	03/13/18	03/13/18	03/13/18	03/13/18	
			Sample ID:	3F-IAQ-SWE	3F-IAQ-SWW	4F-IAQ-SWE	4F-IAQ-UNIT	
			Type:	FS	FS	FS	FS	
Method	Unit	Parameter	Final Result	Final Qualif	Final Result	Final Qualif	Final Result	Final Qualif
TO-15	UG/M3	trans-1,2-Dichloroethene	0.793 U		0.793 U		0.793 U	
TO-15	UG/M3	trans-1,3-Dichloropropene	0.908 U		0.908 U		0.908 U	
TO-15	UG/M3	Trichlorofluoromethane	1.44		1.4		1.34	
TO-15	UG/M3	Vinyl bromide	0.874 U		0.874 U		0.874 U	
TO-15	UG/M3	Xylene, o	7.47		11.8		7.77	
TO-15	UG/M3	Xylenes, (o&p)	12.7		18.5		12.9	
TO15 SIM	UG/M3	1,1,1-Trichloroethane	0.109 U		0.109 U		0.109 U	
TO15 SIM	UG/M3	1,1-Dichloroethene	0.079 U		0.079 U		0.079 U	
TO15 SIM	UG/M3	Carbon tetrachloride	0.434		0.447		0.465	
TO15 SIM	UG/M3	Cis-1,2-Dichloroethene	0.305		0.258		0.274	
TO15 SIM	UG/M3	Tetrachloroethene	3.34		3.27		3.53	
TO15 SIM	UG/M3	Trichloroethene	1.03		0.876		1	
TO15 SIM	UG/M3	Vinyl chloride	0.051 U		0.051 U		0.051 U	

Notes:

U = undetected

J = estimated value

FS = field sample

FD = field duplicate

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

			SDG:	L1808696	L1808696	L1808696
			Location:	BAS-IAQ-1	BAS-IAQ-1	ROOF-AA
			Date Collected:	03/13/18	03/13/18	03/13/18
			Sample ID:	BAS-IAQ-1	BAS-IAQ-X	ROOF-AA
			Type:	FS	FD	FS
Method	Unit	Parameter	Final Result	Final Qualif	Final Result	Final Qualif
TO-15	UG/M3	1,1,2,2-Tetrachloroethane	1.37 U		1.37 U	
TO-15	UG/M3	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.53 U		1.53 U	
TO-15	UG/M3	1,1,2-Trichloroethane	1.09 U		1.09 U	
TO-15	UG/M3	1,1-Dichloroethane	0.809 U		0.809 U	
TO-15	UG/M3	1,2,4-Trichlorobenzene	1.48 U		1.48 U	
TO-15	UG/M3	1,2,4-Trimethylbenzene	0.983 U		0.983 U	
TO-15	UG/M3	1,2-Dibromoethane	1.54 U		1.54 U	
TO-15	UG/M3	1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4 U		1.4 U	
TO-15	UG/M3	1,2-Dichlorobenzene	1.2 U		1.2 U	
TO-15	UG/M3	1,2-Dichloroethane	0.809 U		0.809 U	
TO-15	UG/M3	1,2-Dichloropropane	0.924 U		0.924 U	
TO-15	UG/M3	1,3,5-Trimethylbenzene	0.983 U		0.983 U	
TO-15	UG/M3	1,3-Butadiene	0.442 U		0.442 U	
TO-15	UG/M3	1,3-Dichlorobenzene	1.2 U		1.2 U	
TO-15	UG/M3	1,4-Dichlorobenzene	1.2 U		1.2 U	
TO-15	UG/M3	1,4-Dioxane	0.721 U		0.721 U	
TO-15	UG/M3	2-Butanone	2.61		2.32	1.47 U
TO-15	UG/M3	2-Hexanone	0.82 U		0.82 U	
TO-15	UG/M3	2-Propanol	3.79		4.03	5.33
TO-15	UG/M3	4-Ethyltoluene	0.983 U		0.983 U	
TO-15	UG/M3	4-Methyl-2-pentanone	2.05 U		2.05 U	
TO-15	UG/M3	Acetone	11.5		13.7	13.8
TO-15	UG/M3	Allyl chloride	0.626 U		0.626 U	
TO-15	UG/M3	Benzene	0.639 UJ		0.664 J	0.639 U
TO-15	UG/M3	Benzyl chloride	1.04 U		1.04 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

			SDG:	L1808696	L1808696	L1808696
			Location:	BAS-IAQ-1	BAS-IAQ-1	ROOF-AA
			Date Collected:	03/13/18	03/13/18	03/13/18
			Sample ID:	BAS-IAQ-1	BAS-IAQ-X	ROOF-AA
			Type:	FS	FD	FS
Method	Unit	Parameter	Final Result	Final Qualif	Final Result	Final Qualif
TO-15	UG/M3	Bromodichloromethane	1.34 U		1.34 U	
TO-15	UG/M3	Bromoform	2.07 U		2.07 U	
TO-15	UG/M3	Bromomethane	0.777 U		0.777 U	
TO-15	UG/M3	Carbon disulfide	0.623 U		0.623 U	
TO-15	UG/M3	Chlorobenzene	0.921 U		0.921 U	
TO-15	UG/M3	Chloroethane	0.528 U		0.528 U	
TO-15	UG/M3	Chloroform	0.977 U		0.977 U	
TO-15	UG/M3	Chloromethane	0.96		0.985	
TO-15	UG/M3	Cis-1,3-Dichloropropene	0.908 U		0.908 U	
TO-15	UG/M3	Cyclohexane	0.688 U		0.688 U	
TO-15	UG/M3	Dibromochloromethane	1.7 U		1.7 U	
TO-15	UG/M3	Dichlorodifluoromethane	2.42		2.49	
TO-15	UG/M3	Ethanol	11.2		12.1	
TO-15	UG/M3	Ethyl acetate	1.8 U		1.8 U	
TO-15	UG/M3	Ethylbenzene	0.869 U		0.869 U	
TO-15	UG/M3	Heptane	0.82 U		0.82 U	
TO-15	UG/M3	Hexachlorobutadiene	2.13 U		2.13 U	
TO-15	UG/M3	Hexane	0.705 U		0.705 U	
TO-15	UG/M3	Isooctane	0.934 U		0.934 U	
TO-15	UG/M3	Methyl Tertbutyl Ether	0.721 U		0.721 U	
TO-15	UG/M3	Methylene chloride	1.74 U		1.74 U	
TO-15	UG/M3	Styrene	0.852 U		0.852 U	
TO-15	UG/M3	t-Butyl alcohol	1.52 U		1.52 U	
TO-15	UG/M3	Tetrahydrofuran	1.47 U		1.47 U	
TO-15	UG/M3	Toluene	4.71		7.01	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

			SDG:	L1808696	L1808696	L1808696
			Location:	BAS-IAQ-1	BAS-IAQ-1	ROOF-AA
			Date Collected:	03/13/18	03/13/18	03/13/18
			Sample ID:	BAS-IAQ-1	BAS-IAQ-X	ROOF-AA
			Type:	FS	FD	FS
Method	Unit	Parameter	Final Result	Final Qualif	Final Result	Final Qualif
TO-15	UG/M3	trans-1,2-Dichloroethene	0.793 U		0.793 U	
TO-15	UG/M3	trans-1,3-Dichloropropene	0.908 U		0.908 U	
TO-15	UG/M3	Trichlorofluoromethane	1.31		1.38	
TO-15	UG/M3	Vinyl bromide	0.874 U		0.874 U	
TO-15	UG/M3	Xylene, o	1.39		1.36	
TO-15	UG/M3	Xylenes, (o&p)	3.24		3.31	
TO15 SIM	UG/M3	1,1,1-Trichloroethane	0.109 U		0.109 U	
TO15 SIM	UG/M3	1,1-Dichloroethene	0.079 U		0.079 U	
TO15 SIM	UG/M3	Carbon tetrachloride	0.421		0.453	
TO15 SIM	UG/M3	Cis-1,2-Dichloroethene	0.079 UJ		0.087 J	
TO15 SIM	UG/M3	Tetrachloroethene	0.685		0.651	
TO15 SIM	UG/M3	Trichloroethene	0.188		0.172	
TO15 SIM	UG/M3	Vinyl chloride	0.051 U		0.051 U	

Notes:

U = undetected

J = estimated value

FS = field sample

FD = field duplicate

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK

SDG	Analysis		Field Sample		Field Sample Id	Param Name	Lab		Final Result	Final Qualifier	Val	
	Method	Lab Sample Id	Date				Result Text	Lab Qualifier			Reason Code	Result Uom
L1808696	TO-15	L1808696-01	3/13/2018		BAS-IAQ-1	Benzene	0.639 U		0.639 UJ		FD	UG/M3
L1808696	TO15 SIM	L1808696-01	3/13/2018		BAS-IAQ-1	Cis-1,2-Dichloroethene	0.079 U		0.079 UJ		FD	UG/M3
L1808696	TO-15	L1808696-02	3/13/2018		BAS-IAQ-X	Benzene	0.664		0.664 J		FD	UG/M3
L1808696	TO15 SIM	L1808696-02	3/13/2018		BAS-IAQ-X	Cis-1,2-Dichloroethene	0.087		0.087 J		FD	UG/M3

Notes:

U = undetected

J = estimated value

FD = field duplicate precision not met

**ATTACHMENT A -PROJECT PRECISION AND ACCURACY LIMITS
DATA USABILITY SUMMARY REPORT
MARCH 2018 AIR SAMPLING EVENT
FORMER HYGRADE POLISHING AND PLATING COMPANY
LONG ISLAND CITY, NEW YORK**

PARAMETER	QC TEST	ANALYTE	AIR (%R)	AIR (RPD)
Volatiles	Calibration	All Target Compounds	70 - 130	30
	LCS/LCSD	All Target Compounds	70 - 130	30

Notes:

LCS = Laboratory Control Sample

%R = Percent Recovery

QC = Quality Control

RPD = Relative Percent Difference

LABORATORY REPORT



ANALYTICAL REPORT

Lab Number:	L1808696
Client:	AMEC Foster Wheeler E & I, Inc. 214-25 42nd Avenue Suite 3R Bayside, NY 11361
ATTN:	Eric Weinstock
Phone:	(347) 836-4445
Project Name:	HYGRADE
Project Number:	3612162331
Report Date:	03/16/18

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808696-01	BAS-IAQ-1	AIR	22-07 41ST AVE., LIC, NY	03/13/18 12:24	03/13/18
L1808696-02	BAS-IAQ-X	AIR	22-07 41ST AVE., LIC, NY	03/13/18 14:10	03/13/18
L1808696-03	IF-IAQ-UNIT	AIR	22-07 41ST AVE., LIC, NY	03/13/18 13:45	03/13/18
L1808696-04	IF-IAQ-SWE	AIR	22-07 41ST AVE., LIC, NY	03/13/18 14:07	03/13/18
L1808696-05	2F-IAQ-SWE	AIR	22-07 41ST AVE., LIC, NY	03/13/18 14:29	03/13/18
L1808696-06	2F-IAQ-SWW	AIR	22-07 41ST AVE., LIC, NY	03/13/18 13:55	03/13/18
L1808696-07	3F-IAQ-SWE	AIR	22-07 41ST AVE., LIC, NY	03/13/18 14:30	03/13/18
L1808696-08	3F-IAQ-SWW	AIR	22-07 41ST AVE., LIC, NY	03/13/18 13:50	03/13/18
L1808696-09	4F-IAQ-UNIT	AIR	22-07 41ST AVE., LIC, NY	03/13/18 13:56	03/13/18
L1808696-10	4F-IAQ-SWE	AIR	22-07 41ST AVE., LIC, NY	03/13/18 13:57	03/13/18
L1808696-11	ROOF-AA	AIR	22-07 41ST AVE., LIC, NY	03/13/18 14:00	03/13/18

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 12, 2018. The canister certification results are provided as an addendum.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 03/16/18

AIR

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-01
 Client ID: BAS-IAQ-1
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/15/18 18:25
 Analyst: RY

Date Collected: 03/13/18 12:24
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.490	0.200	--	2.42	0.989	--		1
Chloromethane	0.465	0.200	--	0.960	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	5.92	5.00	--	11.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.86	1.00	--	11.5	2.38	--		1
Trichlorofluoromethane	0.233	0.200	--	1.31	1.12	--		1
Isopropanol	1.54	0.500	--	3.79	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.886	0.500	--	2.61	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-01
 Client ID: BAS-IAQ-1
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 12:24
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.25	0.200	--	4.71	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.745	0.400	--	3.24	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.319	0.200	--	1.39	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-01
 Client ID: BAS-IAQ-1
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 12:24
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-01
 Client ID: BAS-IAQ-1
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/15/18 18:25
 Analyst: RY

Date Collected: 03/13/18 12:24
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Trichloroethene	0.035	0.020	--	0.188	0.107	--		1
Tetrachloroethene	0.101	0.020	--	0.685	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-02
 Client ID: BAS-IAQ-X
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/15/18 19:07
 Analyst: RY

Date Collected: 03/13/18 14:10
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.503	0.200	--	2.49	0.989	--		1
Chloromethane	0.477	0.200	--	0.985	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.40	5.00	--	12.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.78	1.00	--	13.7	2.38	--		1
Trichlorofluoromethane	0.246	0.200	--	1.38	1.12	--		1
Isopropanol	1.64	0.500	--	4.03	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.786	0.500	--	2.32	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-02
 Client ID: BAS-IAQ-X
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 14:10
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.208	0.200	--	0.664	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.86	0.200	--	7.01	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.763	0.400	--	3.31	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.313	0.200	--	1.36	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-02
 Client ID: BAS-IAQ-X
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 14:10
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	102		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-02
 Client ID: BAS-IAQ-X
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/15/18 19:07
 Analyst: RY

Date Collected: 03/13/18 14:10
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.022	0.020	--	0.087	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--		1
Trichloroethene	0.032	0.020	--	0.172	0.107	--		1
Tetrachloroethene	0.096	0.020	--	0.651	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-03
 Client ID: IF-IAQ-UNIT
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/15/18 19:47
 Analyst: RY

Date Collected: 03/13/18 13:45
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.499	0.200	--	2.47	0.989	--		1
Chloromethane	0.475	0.200	--	0.981	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	12.0	5.00	--	22.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.32	1.00	--	17.4	2.38	--		1
Trichlorofluoromethane	0.236	0.200	--	1.33	1.12	--		1
Isopropanol	2.48	0.500	--	6.10	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.697	0.500	--	2.06	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-03
 Client ID: IF-IAQ-UNIT
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:45
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.76	0.200	--	6.63	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.267	0.200	--	1.16	0.869	--		1
p/m-Xylene	1.57	0.400	--	6.82	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.864	0.200	--	3.75	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-03
 Client ID: IF-IAQ-UNIT
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:45
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	103		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-03
 Client ID: IF-IAQ-UNIT
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/15/18 19:47
 Analyst: RY

Date Collected: 03/13/18 13:45
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	0.029	0.020	--	0.156	0.107	--		1
Tetrachloroethene	0.110	0.020	--	0.746	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	99		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-04
 Client ID: IF-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/15/18 21:08
 Analyst: RY

Date Collected: 03/13/18 14:07
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.504	0.200	--	2.49	0.989	--		1
Chloromethane	0.501	0.200	--	1.03	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	20.4	5.00	--	38.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.76	1.00	--	20.8	2.38	--		1
Trichlorofluoromethane	0.243	0.200	--	1.37	1.12	--		1
Isopropanol	3.55	0.500	--	8.73	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.784	0.500	--	2.31	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-04
Client ID: IF-IAQ-SWE
Sample Location: 22-07 41ST AVE., LIC, NY
Sample Depth:

Date Collected: 03/13/18 14:07
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.97	0.200	--	7.42	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.254	0.200	--	1.10	0.869	--		1
p/m-Xylene	1.38	0.400	--	5.99	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.739	0.200	--	3.21	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-04
 Client ID: IF-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 14:07
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	100		60-140



Project Name: HYGRADE**Lab Number:** L1808696**Project Number:** 3612162331**Report Date:** 03/16/18**SAMPLE RESULTS**

Lab ID: L1808696-04
Client ID: IF-IAQ-SWE
Sample Location: 22-07 41ST AVE., LIC, NY
Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/15/18 21:08
Analyst: RY

Date Collected: 03/13/18 14:07
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	0.037	0.020	--	0.199	0.107	--		1
Tetrachloroethene	0.139	0.020	--	0.943	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-05
 Client ID: 2F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/15/18 22:02
 Analyst: RY

Date Collected: 03/13/18 14:29
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.505	0.200	--	2.50	0.989	--		1
Chloromethane	0.517	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	78.0	5.00	--	147	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	18.2	1.00	--	43.2	2.38	--		1
Trichlorofluoromethane	0.246	0.200	--	1.38	1.12	--		1
Isopropanol	10.2	0.500	--	25.1	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.807	0.500	--	2.38	1.47	--		1
Ethyl Acetate	0.529	0.500	--	1.91	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-05
 Client ID: 2F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 14:29
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.99	0.200	--	7.50	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.305	0.200	--	1.32	0.869	--		1
p/m-Xylene	1.75	0.400	--	7.60	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.961	0.200	--	4.17	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE**Lab Number:** L1808696**Project Number:** 3612162331**Report Date:** 03/16/18**SAMPLE RESULTS**

Lab ID: L1808696-05

Date Collected: 03/13/18 14:29

Client ID: 2F-IAQ-SWE

Date Received: 03/13/18

Sample Location: 22-07 41ST AVE., LIC, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	99		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-05
 Client ID: 2F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/15/18 22:02
 Analyst: RY

Date Collected: 03/13/18 14:29
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.027	0.020	--	0.107	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--		1
Trichloroethene	0.050	0.020	--	0.269	0.107	--		1
Tetrachloroethene	0.175	0.020	--	1.19	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-06
 Client ID: 2F-IAQ-SWW
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/15/18 22:45
 Analyst: RY

Date Collected: 03/13/18 13:55
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.466	0.200	--	2.30	0.989	--		1
Chloromethane	0.477	0.200	--	0.985	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	184	5.00	--	347	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	37.8	1.00	--	89.8	2.38	--		1
Trichlorofluoromethane	0.254	0.200	--	1.43	1.12	--		1
Isopropanol	27.0	0.500	--	66.4	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.793	0.500	--	2.34	1.47	--		1
Ethyl Acetate	1.19	0.500	--	4.29	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-06
 Client ID: 2F-IAQ-SWW
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:55
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.54	0.200	--	5.80	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.382	0.200	--	1.66	0.869	--		1
p/m-Xylene	2.44	0.400	--	10.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.44	0.200	--	6.25	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-06
 Client ID: 2F-IAQ-SWW
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:55
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	88		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-06
 Client ID: 2F-IAQ-SWW
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/15/18 22:45
 Analyst: RY

Date Collected: 03/13/18 13:55
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.050	0.020	--	0.198	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.084	0.020	--	0.528	0.126	--		1
Trichloroethene	0.124	0.020	--	0.666	0.107	--		1
Tetrachloroethene	0.319	0.020	--	2.16	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	83		60-140
bromochloromethane	83		60-140
chlorobenzene-d5	84		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-07
 Client ID: 3F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/15/18 23:29
 Analyst: RY

Date Collected: 03/13/18 14:30
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.459	0.200	--	2.27	0.989	--		1
Chloromethane	0.514	0.200	--	1.06	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	313	5.00	--	590	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	116	1.00	--	276	2.38	--		1
Trichlorofluoromethane	0.257	0.200	--	1.44	1.12	--		1
Isopropanol	39.6	0.500	--	97.3	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.979	0.500	--	2.89	1.47	--		1
Ethyl Acetate	2.70	0.500	--	9.73	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-07
 Client ID: 3F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 14:30
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.206	0.200	--	0.658	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.203	0.200	--	0.832	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.93	0.200	--	7.27	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.471	0.200	--	2.05	0.869	--		1
p/m-Xylene	2.93	0.400	--	12.7	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.72	0.200	--	7.47	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-07
 Client ID: 3F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 14:30
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	85		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-07
 Client ID: 3F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/15/18 23:29
 Analyst: RY

Date Collected: 03/13/18 14:30
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.077	0.020	--	0.305	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--		1
Trichloroethene	0.192	0.020	--	1.03	0.107	--		1
Tetrachloroethene	0.493	0.020	--	3.34	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	81		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	81		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-08
 Client ID: 3F-IAQ-SWW
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/16/18 00:12
 Analyst: RY

Date Collected: 03/13/18 13:50
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.500	0.200	--	2.47	0.989	--		1
Chloromethane	0.521	0.200	--	1.08	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	206	5.00	--	388	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	88.5	1.00	--	210	2.38	--		1
Trichlorofluoromethane	0.249	0.200	--	1.40	1.12	--		1
Isopropanol	31.4	0.500	--	77.2	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.01	0.500	--	2.98	1.47	--		1
Ethyl Acetate	2.40	0.500	--	8.65	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-08
 Client ID: 3F-IAQ-SWW
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:50
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.215	0.200	--	0.687	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.57	0.200	--	5.92	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.643	0.200	--	2.79	0.869	--		1
p/m-Xylene	4.27	0.400	--	18.5	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.72	0.200	--	11.8	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-08
 Client ID: 3F-IAQ-SWW
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:50
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-08
 Client ID: 3F-IAQ-SWW
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/16/18 00:12
 Analyst: RY

Date Collected: 03/13/18 13:50
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.065	0.020	--	0.258	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.071	0.020	--	0.447	0.126	--		1
Trichloroethene	0.163	0.020	--	0.876	0.107	--		1
Tetrachloroethene	0.482	0.020	--	3.27	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140



Project Name: HYGRADE**Project Number:** 3612162331**Lab Number:** L1808696**Report Date:** 03/16/18**SAMPLE RESULTS**

Lab ID: L1808696-09
Client ID: 4F-IAQ-UNIT
Sample Location: 22-07 41ST AVE., LIC, NY
Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/16/18 00:54
Analyst: RY

Date Collected: 03/13/18 13:56
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.494	0.200	--	2.44	0.989	--		1
Chloromethane	0.527	0.200	--	1.09	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	206	5.00	--	388	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	94.1	1.00	--	224	2.38	--		1
Trichlorofluoromethane	0.240	0.200	--	1.35	1.12	--		1
Isopropanol	30.4	0.500	--	74.7	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.02	0.500	--	3.01	1.47	--		1
Ethyl Acetate	2.47	0.500	--	8.90	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-09
 Client ID: 4F-IAQ-UNIT
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:56
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.226	0.200	--	0.722	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.63	0.200	--	6.14	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.631	0.200	--	2.74	0.869	--		1
p/m-Xylene	4.21	0.400	--	18.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.66	0.200	--	11.6	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-09
 Client ID: 4F-IAQ-UNIT
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:56
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-09
 Client ID: 4F-IAQ-UNIT
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/16/18 00:54
 Analyst: RY

Date Collected: 03/13/18 13:56
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.059	0.020	--	0.234	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--		1
Trichloroethene	0.159	0.020	--	0.855	0.107	--		1
Tetrachloroethene	0.485	0.020	--	3.29	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-10
 Client ID: 4F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/16/18 01:35
 Analyst: RY

Date Collected: 03/13/18 13:57
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.494	0.200	--	2.44	0.989	--		1
Chloromethane	0.512	0.200	--	1.06	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	261	5.00	--	492	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	143	1.00	--	340	2.38	--		1
Trichlorofluoromethane	0.238	0.200	--	1.34	1.12	--		1
Isopropanol	33.2	0.500	--	81.6	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.02	0.500	--	3.01	1.47	--		1
Ethyl Acetate	3.08	0.500	--	11.1	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-10
 Client ID: 4F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:57
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.215	0.200	--	0.687	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.92	0.200	--	7.24	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.483	0.200	--	2.10	0.869	--		1
p/m-Xylene	2.96	0.400	--	12.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.79	0.200	--	7.77	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-10
 Client ID: 4F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 13:57
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-10
 Client ID: 4F-IAQ-SWE
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/16/18 01:35
 Analyst: RY

Date Collected: 03/13/18 13:57
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.069	0.020	--	0.274	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.074	0.020	--	0.465	0.126	--		1
Trichloroethene	0.187	0.020	--	1.00	0.107	--		1
Tetrachloroethene	0.521	0.020	--	3.53	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-11
 Client ID: ROOF-AA
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/15/18 17:45
 Analyst: RY

Date Collected: 03/13/18 14:00
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.507	0.200	--	2.51	0.989	--		1
Chloromethane	0.503	0.200	--	1.04	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	7.09	5.00	--	13.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.80	1.00	--	13.8	2.38	--		1
Trichlorofluoromethane	0.246	0.200	--	1.38	1.12	--		1
Isopropanol	2.17	0.500	--	5.33	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-11
 Client ID: ROOF-AA
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 14:00
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.38	0.200	--	8.97	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.641	0.400	--	2.78	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-11
 Client ID: ROOF-AA
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:

Date Collected: 03/13/18 14:00
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	97		60-140



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

SAMPLE RESULTS

Lab ID: L1808696-11
 Client ID: ROOF-AA
 Sample Location: 22-07 41ST AVE., LIC, NY
 Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/15/18 17:45
 Analyst: RY

Date Collected: 03/13/18 14:00
 Date Received: 03/13/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.084	0.020	--	0.528	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.065	0.020	--	0.441	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140



Project Name: HYGRADE

Lab Number: L1808696

Project Number: 3612162331

Report Date: 03/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/15/18 15:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-11 Batch: WG1097371-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: HYGRADE

Lab Number: L1808696

Project Number: 3612162331

Report Date: 03/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/15/18 15:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-11 Batch: WG1097371-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1



Project Name: HYGRADE

Lab Number: L1808696

Project Number: 3612162331

Report Date: 03/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/15/18 15:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-11 Batch: WG1097371-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: HYGRADE

Lab Number: L1808696

Project Number: 3612162331

Report Date: 03/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/15/18 15:56

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-11 Batch: WG1097448-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Lab Control Sample Analysis Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-11 Batch: WG1097371-3								
Chlorodifluoromethane	94		-		70-130	-		
Propylene	113		-		70-130	-		
Propane	86		-		70-130	-		
Dichlorodifluoromethane	94		-		70-130	-		
Chloromethane	95		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	90		-		70-130	-		
Methanol	79		-		70-130	-		
Vinyl chloride	82		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Butane	56	Q	-		70-130	-		
Bromomethane	92		-		70-130	-		
Chloroethane	87		-		70-130	-		
Ethyl Alcohol	88		-		70-130	-		
Dichlorofluoromethane	91		-		70-130	-		
Vinyl bromide	113		-		70-130	-		
Acrolein	84		-		70-130	-		
Acetone	109		-		70-130	-		
Acetonitrile	80		-		70-130	-		
Trichlorofluoromethane	116		-		70-130	-		
iso-Propyl Alcohol	97		-		70-130	-		
Acrylonitrile	93		-		70-130	-		
Pentane	108		-		70-130	-		
Ethyl ether	92		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-11 Batch: WG1097371-3								
1,1-Dichloroethene	98		-		70-130	-		
tert-Butyl Alcohol	83		-		70-130	-		
Methylene chloride	102		-		70-130	-		
3-Chloropropene	104		-		70-130	-		
Carbon disulfide	101		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		-		70-130	-		
trans-1,2-Dichloroethene	103		-		70-130	-		
1,1-Dichloroethane	98		-		70-130	-		
Methyl tert butyl ether	95		-		70-130	-		
Vinyl acetate	113		-		70-130	-		
2-Butanone	102		-		70-130	-		
cis-1,2-Dichloroethene	102		-		70-130	-		
Ethyl Acetate	105		-		70-130	-		
Chloroform	108		-		70-130	-		
Tetrahydrofuran	98		-		70-130	-		
2,2-Dichloropropane	97		-		70-130	-		
1,2-Dichloroethane	110		-		70-130	-		
n-Hexane	90		-		70-130	-		
Isopropyl Ether	81		-		70-130	-		
Ethyl-Tert-Butyl-Ether	73		-		70-130	-		
1,1,1-Trichloroethane	102		-		70-130	-		
1,1-Dichloropropene	88		-		70-130	-		
Benzene	84		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-11 Batch: WG1097371-3								
Carbon tetrachloride	108		-		70-130	-		
Cyclohexane	90		-		70-130	-		
Tertiary-Amyl Methyl Ether	73		-		70-130	-		
Dibromomethane	92		-		70-130	-		
1,2-Dichloropropane	87		-		70-130	-		
Bromodichloromethane	107		-		70-130	-		
1,4-Dioxane	101		-		70-130	-		
Trichloroethene	96		-		70-130	-		
2,2,4-Trimethylpentane	94		-		70-130	-		
Methyl Methacrylate	109		-		70-130	-		
Heptane	93		-		70-130	-		
cis-1,3-Dichloropropene	93		-		70-130	-		
4-Methyl-2-pentanone	96		-		70-130	-		
trans-1,3-Dichloropropene	82		-		70-130	-		
1,1,2-Trichloroethane	97		-		70-130	-		
Toluene	94		-		70-130	-		
1,3-Dichloropropane	87		-		70-130	-		
2-Hexanone	100		-		70-130	-		
Dibromochloromethane	117		-		70-130	-		
1,2-Dibromoethane	98		-		70-130	-		
Butyl Acetate	88		-		70-130	-		
Octane	88		-		70-130	-		
Tetrachloroethene	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-11 Batch: WG1097371-3								
1,1,1,2-Tetrachloroethane	96		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	100		-		70-130	-		
Bromoform	126		-		70-130	-		
Styrene	100		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	103		-		70-130	-		
1,2,3-Trichloropropane	94		-		70-130	-		
Nonane (C9)	90		-		70-130	-		
Isopropylbenzene	101		-		70-130	-		
Bromobenzene	94		-		70-130	-		
o-Chlorotoluene	101		-		70-130	-		
n-Propylbenzene	104		-		70-130	-		
p-Chlorotoluene	102		-		70-130	-		
4-Ethyltoluene	108		-		70-130	-		
1,3,5-Trimethylbenzene	101		-		70-130	-		
tert-Butylbenzene	101		-		70-130	-		
1,2,4-Trimethylbenzene	104		-		70-130	-		
Decane (C10)	93		-		70-130	-		
Benzyl chloride	123		-		70-130	-		
1,3-Dichlorobenzene	107		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-11 Batch: WG1097371-3								
sec-Butylbenzene	98		-		70-130	-		
p-Isopropyltoluene	95		-		70-130	-		
1,2-Dichlorobenzene	111		-		70-130	-		
n-Butylbenzene	109		-		70-130	-		
1,2-Dibromo-3-chloropropane	108		-		70-130	-		
Undecane	98		-		70-130	-		
Dodecane (C12)	108		-		70-130	-		
1,2,4-Trichlorobenzene	109		-		70-130	-		
Naphthalene	116		-		70-130	-		
1,2,3-Trichlorobenzene	111		-		70-130	-		
Hexachlorobutadiene	109		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-11 Batch: WG1097448-3								
Vinyl chloride	80		-		70-130	-		25
Chloroethane	87		-		70-130	-		25
1,1-Dichloroethene	91		-		70-130	-		25
trans-1,2-Dichloroethene	94		-		70-130	-		25
1,1-Dichloroethane	90		-		70-130	-		25
cis-1,2-Dichloroethene	91		-		70-130	-		25
1,2-Dichloroethane	94		-		70-130	-		25
1,1,1-Trichloroethane	100		-		70-130	-		25
Carbon tetrachloride	95		-		70-130	-		25
Trichloroethene	85		-		70-130	-		25
1,1,2-Trichloroethane	87		-		70-130	-		25
Tetrachloroethene	89		-		70-130	-		25

Lab Duplicate Analysis Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1097371-5 QC Sample: L1808696-03 Client ID: IF-IAQ-UNIT						
Dichlorodifluoromethane	0.499	0.506	ppbV	1		25
Chloromethane	0.475	0.499	ppbV	5		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	12.0	12.2	ppbV	2		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	7.32	7.34	ppbV	0		25
Trichlorofluoromethane	0.236	0.239	ppbV	1		25
Isopropanol	2.48	2.59	ppbV	4		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.697	0.712	ppbV	2		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1097371-5 QC Sample: L1808696-03 Client ID: IF-IAQ-UNIT						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	1.76	1.83	ppbV	4		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.267	0.276	ppbV	3		25

Lab Duplicate Analysis Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1097371-5 QC Sample: L1808696-03 Client ID: IF-IAQ-UNIT						
p/m-Xylene	1.57	1.60	ppbV	2		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.864	0.884	ppbV	2		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1097448-5 QC Sample: L1808696-03 Client ID: IF-IAQ-UNIT						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.073	0.073	ppbV	0		25
Trichloroethene	0.029	0.033	ppbV	13		25
Tetrachloroethene	0.110	0.115	ppbV	4		25

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Serial_No:03161815:15

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1808696-01	BAS-IAQ-1	0010	Flow 4	03/12/18	260961		-	-	-	Pass	4.5	10.3	78
L1808696-01	BAS-IAQ-1	484	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.3	0.8	-	-	-	-
L1808696-02	BAS-IAQ-X	0775	Flow 4	03/12/18	260961		-	-	-	Pass	4.4	4.4	0
L1808696-02	BAS-IAQ-X	346	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.2	-6.5	-	-	-	-
L1808696-03	IF-IAQ-UNIT	0917	Flow 4	03/12/18	260961		-	-	-	Pass	4.3	6.8	45
L1808696-03	IF-IAQ-UNIT	404	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.6	0.6	-	-	-	-
L1808696-04	IF-IAQ-SWE	0890	Flow 4	03/12/18	260961		-	-	-	Pass	4.4	4.6	4
L1808696-04	IF-IAQ-SWE	507	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.6	-4.0	-	-	-	-
L1808696-05	2F-IAQ-SWE	0199	Flow 4	03/12/18	260961		-	-	-	Pass	4.4	4.5	2
L1808696-05	2F-IAQ-SWE	135	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.7	-12.2	-	-	-	-
L1808696-06	2F-IAQ-SWW	0845	Flow 5	03/12/18	260961		-	-	-	Pass	4.5	4.6	2
L1808696-06	2F-IAQ-SWW	2300	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.3	-6.9	-	-	-	-
L1808696-07	3F-IAQ-SWE	0941	Flow 5	03/12/18	260961		-	-	-	Pass	4.4	4.7	7
L1808696-07	3F-IAQ-SWE	236	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.1	-8.6	-	-	-	-
L1808696-08	3F-IAQ-SWW	0760	Flow 4	03/12/18	260961		-	-	-	Pass	4.3	4.8	11

Project Name: HYGRADE
Project Number: 3612162331

Serial_No: 03161815:15
Lab Number: L1808696
Report Date: 03/16/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1808696-08	3F-IAQ-SWW	2427	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.5	-7.2	-	-	-	-
L1808696-09	4F-IAQ-UNIT	0754	Flow 5	03/12/18	260961		-	-	-	Pass	4.4	4.6	4
L1808696-09	4F-IAQ-UNIT	2243	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.6	-6.2	-	-	-	-
L1808696-10	4F-IAQ-SWE	0946	Flow 4	03/12/18	260961		-	-	-	Pass	4.3	4.8	11
L1808696-10	4F-IAQ-SWE	2031	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.5	-5.9	-	-	-	-
L1808696-11	ROOF-AA	0122	Flow 5	03/12/18	260961		-	-	-	Pass	4.4	4.7	7
L1808696-11	ROOF-AA	141	2.7L Can	03/12/18	260961	L1807919-01	Pass	-29.5	-5.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1807919
Report Date: 03/16/18

Air Canister Certification Results

Lab ID: L1807919-01
Client ID: CAN 379 SHELF 3
Sample Location:
Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/08/18 11:11
Analyst: MB

Date Collected: 03/07/18 16:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1807919
Report Date: 03/16/18

Air Canister Certification Results

Lab ID: L1807919-01
Client ID: CAN 379 SHELF 3
Sample Location:
Sample Depth:

Date Collected: 03/07/18 16:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1807919
Report Date: 03/16/18

Air Canister Certification Results

Lab ID: L1807919-01
Client ID: CAN 379 SHELF 3
Sample Location:
Sample Depth:

Date Collected: 03/07/18 16:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1807919
Report Date: 03/16/18

Air Canister Certification Results

Lab ID: L1807919-01
Client ID: CAN 379 SHELF 3
Sample Location:
Sample Depth:

Date Collected: 03/07/18 16:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1807919**Project Number:** CANISTER QC BAT**Report Date:** 03/16/18**Air Canister Certification Results**

Lab ID: L1807919-01

Date Collected: 03/07/18 16:00

Client ID: CAN 379 SHELF 3

Date Received: 03/08/18

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1807919
Report Date: 03/16/18

Air Canister Certification Results

Lab ID: L1807919-01
Client ID: CAN 379 SHELF 3
Sample Location:
Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/08/18 11:11
Analyst: GJ

Date Collected: 03/07/18 16:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1807919
Report Date: 03/16/18

Air Canister Certification Results

Lab ID: L1807919-01
Client ID: CAN 379 SHELF 3
Sample Location:
Sample Depth:

Date Collected: 03/07/18 16:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1807919
Report Date: 03/16/18

Air Canister Certification Results

Lab ID: L1807919-01
Client ID: CAN 379 SHELF 3
Sample Location:
Sample Depth:

Date Collected: 03/07/18 16:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	94		60-140

Project Name: HYGRADE
Project Number: 3612162331

Serial_No:03161815:15
Lab Number: L1808696
Report Date: 03/16/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808696-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-04A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-05A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-06A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-07A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-08A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-09A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-10A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1808696-11A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HYGRADE
Project Number: 3612162331

Lab Number: L1808696
Report Date: 03/16/18

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 11

Published Date: 1/8/2018 4:15:49 PM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,****SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 1 OF 2

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Anne Foster Wheeler
Address: 214-25 42nd Avenue Suite 308
Bayside, NY 11361
Phone: 347-836-4343
Fax:

Email: eric.weinstock@amecf.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: Hygrade
Project Location: 22-07 41st Ave, LIC, NY
Project #: 3612162331
Project Manager: Eric Weinstock
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved)

Date Due: 3/14/18 Time: 24 hr turnaround

Date Rec'd in Lab: 3/14/18

Report Information - Data Deliverables

☐ FAX
☐ ADEX
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

ALPHA Job #: U808096

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed: NY Program: Res / Comm: Comm

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
080916.01	Bas- IAQ-1	3/13/18	6:23	12:24	-29.64	-0.13	IA	BH	2.7	484	0010	X					
02	Bas- IAQ-X	3/13/18	6:24	2:10	-30.22	-7.44	IA	BH	2.7	346	0775	X					
03	1F- IAQ- Unit	3/13/18	6:12	1:45	-30.26	-0.07	IA	BH	2.7	404	0917	X					
04	1F- IAQ-SWE	3/13/18	6:17	2:07	-30.16	-4.84	IA	BH	2.7	507	0810	X					
05	2F- IAQ-SWE	3/13/18	6:29	2:29	-30.12	-13.26	IA	BH	2.7	135	0144	X					
06	2F- IAQ-SW	3/13/18	6:42	1:55	-30.43	-7.50	IA	BH	2.7	2300	0845	X					
07	3F- IAQ-SWE	3/13/18	6:50	2:30	-30.41	-9.17	IA	BH	2.7	236	0941	X					
08	3F- IAQ-SW	3/13/18	6:41	1:50	-30.26	-7.64	IA	BH	2.7	2427	0760	X					
09	4F- IAQ-Unit	3/13/18	6:34	1:56	-29.56	-7.05	IA	BH	2.7	2243	0754	X					
10	4F- IAQ-SWE	3/13/18	6:36	1:57	-30.27	-7.02	IA	BH	2.7	2031	0946	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:

Ben Hess

Date/Time

3/13/18 2:39

Received By:

Ramek Jackson

Date/Time:

3/13/18 2:35

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 2 OF 2

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Amel Foster Wheeler
Address: 21425 42nd Ave Suite 3R
Bayside, NY 11361
Phone: 347-836-4343
Fax:
Email: eric.weinstock@amel.com

Project Information

Project Name: Hygrade
Project Location: 22-0741st Ave, LIC, NY
Project #: 3612162331
Project Manager: Eric Weinstock
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved)

Date Due: 34 hr - turnaround Time:

Date Rec'd in Lab: 3/14/18

ALPHA Job #: L1808696

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed: ~~NY~~ Program: Res / Comm: Comm

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
08096.11	ROOF-AA	3/13/18	6:48	2:00	29.54	6.70	AA	BH	2.7	141	0122	X						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Ben Hess

3/13/18 2:40

Received By:

Date/Time:

Paul Massella

3/13/18 2:35

Paul Massella 3/14/18 02:25
ID: 3/14/18 10:20

3/14/18 9:30 AM
3/14/18 02:00

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Ben Hess Date/Time Prepared 3/13/18 0700

Preparer's Affiliation Environmental Consultant Phone No. 732-272-4442

Purpose of Investigation Indoor Air sampling

1. OCCUPANT:

Interviewed: Y ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

☒ Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Jewelry, Unknown Commercial Tenant
 (1st Floor) (2nd Floor)

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 4

Building age _____

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with painted concrete
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 6 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

sump

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

- | | | |
|----------------------------|------------------|---------------------------------|
| <u>Hot air circulation</u> | Heat pump | Hot water baseboard |
| Space Heaters | Stream radiation | Radiant floor |
| Electric baseboard | Wood stove | Outdoor wood boiler Other _____ |

The primary type of fuel used is:

- | | | |
|--------------------|----------|----------|
| <u>Natural Gas</u> | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor

Air conditioning:

Central Air Window units Open Windows

Other each unit has its own

Are there air distribution ducts present?

(Y)/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	<u>Future Storage (empty as of sampling date)</u>
1 st Floor	<u>Empty</u>
2 nd Floor	<u>Occupied by Tunstall</u>
3 rd Floor	<u>Occupied by Buccellati</u>
4 th Floor	<u>Empty</u>

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y/(N) parking lot outside (East)

b. Does the garage have a separate heating unit?

Y/(N) NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

(Y)/N/NA
Please specify Cars in lot to east

d. Has the building ever had a fire?

Y/(N) When? _____

e. Is a kerosene or unvented gas space heater present?

Y/(N) Where? _____

f. Is there a workshop or hobby/craft area?

Y/(N) Where & Type? _____

g. Is there smoking in the building?

Y/(N) How frequently? _____

h. Have cleaning products been used recently?

Y/N When & Type? _____

i. Have cosmetic products been used recently?

Y/(N) When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____

l. Have air fresheners been used recently? ☒ Y / ☐ N When & Type? Febreeze, last week (3/7)

m. Is there a kitchen exhaust fan? Y / ☒ N If yes, where vented? _____

n. Is there a bathroom exhaust fan? ☒ Y / ☐ N If yes, where vented? Outside

o. Is there a clothes dryer? Y / ☒ N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / ☒ N When & Type? _____

Are there odors in the building?

Y / ☒ N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

Y / ☒ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work?

Y / ☒ N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒ No

☐ Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency) N/A

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS (separate drawings)

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

attached

First Floor:

attached

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

attached

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**