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15 Park Avenue Gaithersburg, MD 20877 PHONE: 301-548-0382

FAX: 301-527-0248



Indoor Air Quality Assessment Report

at

Francis C. Hammond Middle School 4646 Seminary Road Alexandria, VA 22304



Report Prepared for:

John Contreras

Alexandria City Public Schools

2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: September 30, 2021

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APPENDICES

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ABBREVIATIONS AND ACRONYMS

AHU Air-Handling Unit

AIHA American Industrial Hygiene Association

ASHRAE American Society of Heating, Refrigerating and Air-Conditioning

Engineers

ASTM American Society for Testing and Materials

CO Carbon Monoxide CO2 Carbon Dioxide

EMLAP Environmental Microbiology Laboratory Accreditation Program

HVAC Heating, Ventilating, And Air-Conditioning

IAQ Indoor Air Quality

NIST National Institute for Standards and TechnologyNVLAP National Voluntary Laboratory Accreditation Program

RH Relative Humidity

Abbreviations involving scientific volume and measurements involving media or water sampling

Spores/m3 Mold spores per cubic meter of air

LPM Liters Per Minute
NTE Not to exceed

°F degree Fahrenheit
PPM Parts Per Million

1. Executive Summary

Total Environmental Concepts (TEC) was contracted by Alexandria City Public Schools (ACPS) to perform Indoor Air Quality (IAQ) assessments at 19 schools. Douglas MacArthur Elementary was out of service and not assessed. The original list included:

- Alexandria City High School (AC)
- AC Satellie Campus, Central Offices (CO)
- Charles Barrett Elementary School (BC)
- Cora Kelly School for Math (CK)
- Frances C. Hammond Elementary School (FH)
- George Mason Elementary School (GM)
- George Mason Elementary School (GW)
- James Polk Elementary School (JP)
- John Adams Elementary School (JA)
- Lyles-Crouch Elementary School (LC)
- Minnie Howard High School (MH)
- Samuel Tucker Elementary School (ST)
- William Ramsey Elementary School (WR)
- Douglas MacAurthur Elementary School (Out of Service)
- Jefferson-Houston Elementary School (JH)
- Ferdinand T. Day Elementary School (FD)
- Patrick Henry Elementary School (PH)
- Mount Vernon Community School (MV)

This IAQ assessment was conducted at Francis C. Hammond Middle School on on Monday, August 23, 2021. ACPS required that the testing to be based on the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) guidelines. ACPS provided site plans and fifteen (15) sampling locations per school. Sampling locations were chosen by ACPS based on internal review of facilities maintenance records, and a review of facilities maintenance related issues. These sampling locations were selected to collect representative IAQ data in these specific areas and to document any areas of potential concern observed during the site assessment. Representative photographs can be found in Appendix G. As such, ACPS required that TEC test for the following major indoor air pollutants:

- Radon
- Mold
- TO+15 (VOCs)
- 4-polycyclohexene (4-pch)
- Formaldehyde

In accordance with ASHRAE, TEC also took measurements of the following at each school:

- Carbon Monoxide
- Carbon Dioxide
- Humidity
- Temperature

Oxygen

Summary of findings and recommendations during this limited IAQ investigation:

 Mold – TEC conducted site-specific mold sampling outside at Francis C. Hammond Middle School to obtain a baseline of the number and types of fungal spores in the air. This baseline was compared to the spores collected inside at the sampling locations since inside spore counts above baseline, could indicate internal sources of mold.

Findings:

- 1. The number of spores in the air were within acceptable ranges in all locations as compared to background outside air mold spore counts.
- 2. A mold spore ratio anomaly was recorded in the hallway outside of room B229, in room C127, and in Cafeteria 1. These anomalies are most likely caused by open windows and doors and by normal fluctuations in outdoor spore counts. No visible mold was observed. This is not a health issue.
- Staff near room C212 mentioned issues with mold. No vsible mold was observed.

None of the other mold sampling results at William Ramsey Elementary School were indicative of mold issues. Photographs can be found in Section 3, Visual Observations.

Recommendations:

- Moving forward, any suspected mold growth should be inspected by a qualified professional.
- Investigate sources of water leaks and any evidence of water staining.
- Inspect above drop ceilings and replace stained ceiling tiles.
- Inspect areas around building foundation.
- A detailed schedule of maintenance, for all HVAC and associated building systems, should be established, and adhered to.
- Radon levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
- **VOCs** The levels of volitile organic compounds (VOCs) recorded at each location were within acceptable ranges, when compared to EPA Regional Screening Levels (RSLs).
- **4-pch** levels recorded during this investigation were within the LEED (Leadership of Energy and Environmental Design) IAQ guideline of 6.5 ug/m3.
- **Formaldehyde** the levels of formaldehyde recorded at each location were within an acceptable range, compared to EPA Regional Screening Level (RSLs) of 1ug/m3.
- **Carbon monoxide** concentrations in all areas were less than the EPA and ASHRAE recommended limit of 9 ppm.
- Carbon dioxide concentrations in all tested spaces were less than the ASHRAE limit of 1,092 ppm.
- RH the relative humidity in all tested spaces was within the ASHRAE guidelines of ≤ 67%, and for the purposes of this investigation ≤ 65%. None of the tested locations had a relative humidity greater than 65%.

• **Temperature** – none of the tested spaces had a temperatures greater than the ASHRAE recommended summer range of 75°F-80.5°F.

2. Assesment Methods

TEC staff scientists Margaret Stanger, Victoria Powers, and Channing Jackson, conducted IAQ inspections and air sampling on Monday, August 23, 2021, under the direction of Industrial Hygienist Nikki Satari. All air samples were collected three-six feet from floor level, the typical breathing zone for adults.

Mold air samples were collected with a field calibrated Environmental Monitoring Systems High Volume Sampling Pump on Allergenco-D Disposable IAQ Air Monitoring Cassettes at a flow rate of 10 liters per minute for a sample volume of 75 liters during the assessment (photograph below). The Hayes Microbial Consulting laboratory reports are included in Appendix A.



Radon gas samples were collected by securing Air Chek Radon Test Kits (photograph below). Samples were collected within the breathing zone (4-6ft from ground level) at each sample location. In accordance with Air Chek's Radon Test Kit Instructions, kits were secured to walls inside the building and away from, open windows, doors to the outside, or interior air ventilation systems. Sampling time was 72 hours. Radon analytical results can be found in Appendix B.



Formaldehyde gas air samples were collected using static Aldehyde TraceAir II Monitors (photograph below). Samples were secured to surrounding testing equipment to expose the full surface area of the sampling device for the full 4 hours of sampling time. Monitorss were collected after 4 hours and processed for shipment to Phase Separation Science located in Catonsville, MD. Formaldehyde analytical results can be found in Appendix D.



The 4-polycyclohexene (4-PCH) samples were collected in SKC's Anasorb CSC sorbent tubes through Gilian GilAir3 Air Sampling Pumps (photograph below). Pumps were placed within the breathing zone (4-6ft from ground level). Run times were 8 hours or time weighted 4 hour runs. 4-PCH analytical results can be found in Appendix E.



TO+15 (VOCs) samples were collected using ENTECH Instruments 1.4L SUMMA canisters with an ENTECH regulator attachment (photograph below). Canisters were deployed at each location for a run time of 8 hours or a time weighted run time of 4 hours. Internal pressure readings were recorded at the start and end of each sample run time. TO+15 (VOCs) analytical results can be found in Appendix C.



The temperature and relative humidity were taken with the AcuRite Digital Indoor Temperature and Humidity Monitor in the lobby of each school. Teperature and relative humidity readings can be found in Section 5 Mold Sampling Results, below.

Real-time measurements for oxygen, carbon dioxide, carbon monoxide, VOC, hydrogen sulfides were taken with multi-gas detector. These measurements can be found in Section 10 Multi-gas Detector (MSA Altair Multi-gas) Readings. This information can be found in Table 1 below.



3. <u>Visual Observations</u>

Sample Location	August 23, 2021	Visual Observations
Stairwell by Cafeteria 1	Water damage and flooding observed in the tairwell by Cafeteria-1.	

Stairwell by Cafeteria 1	Close up view of observed in the stairwell by Cafeteria-1.	
Stairwell by Cafeteria- 1 and Room	Alternative view of water damage observed in the tairwell by Cafeteria-1.	
Stairwell by Cafeteria- 1 and Room	Close up view of water damage and mold observed in the tairwell by Cafeteria-1.	

	T	
Cafeteria-	No visible water damage was observed in Cafeteria-1.	
Hallway by Room B229	No visible water damage was observed in the hallway by room B229.	
Room C127	No visible water damage was observed in room C127.	The sale was a sale of the sal

4. Conditions for Human Occupancy

Conditions for Human Occupancy are addressed in ASHRAE Standard 55-2017. These standards are designed to provide comfort for an estimated 80% of occupants. The standard provides for a temperature range from between approximately 67 and 82 °F. A more specific range based on relative humidity, season, clothing worn, activity levels, and other factors can be determined. For example, the standard does not specify a lower humidity range, but notes that issues of comfort, skin irritation, dry mucous membranes, and static electricity may arise when the relative humidity is less than 30%. ASHRAE Standard 62.1-2016 does recommend an upper limit of 67% humidity to avoid conditions conducive to microbial growth. For the purposes of this investigation, TEC used a conservative upper limit of 65%. The recommended ASHRAE temperature range for schools and office spaces in summer is 75°F-80.5°F.

4.1 Temperature

The recommended ASHRAE temperature range for schools and office spaces in summer is 75°F-80.5°F. The recorded relative humidity in all locations was below 65% and average indoor temperature can be found in Table 2.

4.2 Relative Humidity

ASHRAE Standard 62.1-2016 recommends a relative humidity no greater than 67% to avoid conditions conducive to microbial growth. The relative humidity observed by TEC during this investigation was observed to be below 65% in all locations. Average relative humidity can be found in Table 2.

4.3 Carbon Dioxide

Carbon dioxide (CO2) is a byproduct of combustion burning engines. Generators, furnaces, boilers, idling automobile engines. High CO2 measurements may indictae engine maintenance issues. There were no exceedances in real-time during the IAQ investigation. Complete results can be found in Table 1.

4.4 Carbon Monoxide

Carbon monoxide (CO) is a byproduct of the combustion of fossil fuels. Generators, furnaces, boilers, idling automobile engines, may all produce CO. High CO measurements may indicate engine maintenance issues. There were no exceedances in real-time during the IAQ investigation. Complete results can be found in Table 1.

4.5 Multi-gas Detector Readings

Multi-gas readings were taken at each location to document current conditions at the time of the sampling efforts and to monitor the environment between sampling locations. There were no exceedances in real-time during the IAQ investigation. Complete results can be found in Table 1.

5. Mold Sampling Results

After collection in the field, mold samples were processed for shipment under strict chain of custody and shipped to Hayes Microbial Consulting, in Midlothian, Virginia.

Federal standards for the number of fungal spores that may be present in the indoor environment, don't exist. The widely accepted guideline in the indoor air quality field, requires that the numbers and types of spores that are present in the indoor environment not exceed those that are present outdoors at any given time.

There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination.

Mold is carried indoors through building entrances, open windows, loading docks, foot traffic into buildings and the HVAC system. To thrive indoors, mold requires a food source, proper temperature, and humidity to foster its growth.

There will also be mold spores present in "normal" outdoor environments. In any environment, excess mold growth may arise as a result of excess moisture. Indoors this may indicate water leaks or high indoor humidity.

TEC conducted site-specific mold sampling outside to obtain a baseline spore count. This baseline was compared to inside mold spore counts at the designated sampling locations.

Interior spore counts above baseline readings, may indicate internal sources of mold. This would indicate a requirement for further investigation and potential mitigation.

TEC observed evidence of water intrusion into the building in several locations. Mold spore ratio abnormalities were recorded in Cafeteria 1, in the hallway outside of B229, and in classroom 127. A physical mold swab sample was collected by TEC. Analysis of this sample confirmed the presence of Aspergillus|Penicillium and Cladosporium.

Aspergillus|Penicillium is the most commonly identified fungi in the environment and Cladosporium is also one of the most commonly found mold genera worl-wide. Aspergillus|Penicillium is very common in soil and on plants, and plant material. This group contains common allergens and has been known to cause hypersensitivity issues.

The outdoor numbers of Cladosporium are lower in the winter and are subsequently often relatively high in summer. Cladosporium number are known to spike in the late afternoon and evening. Photographs of these locations can be found above, in Section 3, Visual Observations.

Staff at Frances C. Hammond, present onsite during sampling, also mentioned continued issues with minor flooding, leaks, and suspected mold in these areas.

TEC recommends that ACPS investigate all areas where there are obvious signs of water intrusion. Care should be taken to look above drop ceilings and around the building foundation. Any hidden suspected mold should be tested and verified. The mold in air results do not indicate a need for mold abatement at this time, but conditions may worsen if the issues with water intrusion continue. The observed ratio abnormalities are most like caused by a combination of the normal fluctuation in daily spore counts, and the issues with water intrusion. Mold analytical results can be found in Appendix A.

6. Radon Gas Sampling Results

Radon forms as the result of the radioactive decay of uranium. Uranium is a naturally occurring radioactive by product that occurs when rock and soil breaks down. Some building materials, such as granite, may be a source of radon. Sampling areas were provided by ACPS. This did not allow for TEC to utilize the sampling protocol provided by Air Chek for performing a comprehensive survey. Air Chek Radon Test Kits collection times were a minimum of 72 hours. Test kits were then retrieved and shipped to Air Chek Inc. located in Mills River, NC. Air Chek laboratories are National Institute of Standards and Technology's (NIST) National Voluntary Laboratory Accreditation Program (NVLAP), and American Industrial Hygiene Association (AIHA) for Environmental Microbial Laboratory Accreditation Program (EMLAP) certified. Analytical results can be found in Appendix B.

7. Formaldehyde Gas Sampling Results

Sources of formaldehyde are similar to sources of carbon monoxide. They include gas-burning engines and space heaters. Other sources include smoking, household products, pressed wood products, and adhesives. Analytical results can be found in Appendix D.

8. TO+15 (VOC) Sampling Results

Volatile organic compounds (VOCs), are organic chemicals emitted as gases. Carpets, flooring materials, cleaning agents, disinfectants, air fresheners, and vinyl furnishings, may all be sources of VOCs in indoor air. Analytical results can be found in Appendix E.

9. 4-pch Sampling Results

4-polycyclohexene is a common indoor air contaminant most commonly associated with " new-carpet" smell complaints. 4-pch is a byproduct of carpet manufacturing and has been associated with adverse health effects. None of the areas investigated during this study indictated elevated levels of pch. Analytical results can be found in Appendix C.

10. Multi-Gas Detector (MSA Altair Multi-gas) Readings

Multi-gas readings were taken at each location to document current conditions at the time of the sampling efforts and to monitor the environment between sampling locations. There were no exceedances in real-time during the IAQ investigation. Multi-gas results can be found below in Table 1.

Table 1

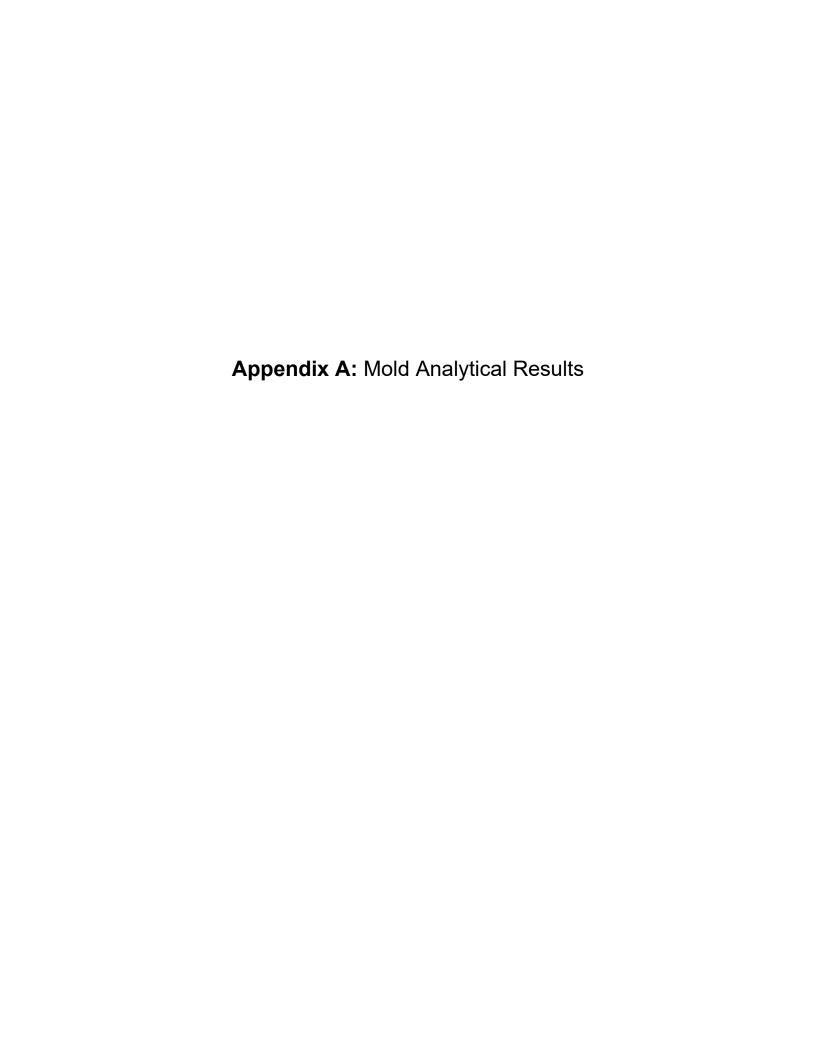
	Multi-Ga	as Detector Readings		
Location	VOC	СО	OXYGEN	H2S
Cafeteria-2	0.0	0.0	20.9	0.0
Cafeteria-1	0.0	0.0	20.9	0.0
Media Center	0.0	0.0	20.9	0.0
E210	0.1	0.0	20.9	0.0
B205	0.1	0.0	20.9	0.0
D211	0.1	0.0	20.9	0.0
Auditorium	0.0	0.0	20.9	0.0
Main Admin	0.0	0.0	20.9	0.0
C127	0.0	0.0	20.9	0.0
Hall C106	0.1	0.0	20.9	0.0
E109	0.1	0.0	20.9	0.0
Main Gym	0.0	0.0	20.9	0.0
D108	0.1	0.0	20.9	0.0
Hall 159	0.1	0.0	20.9	0.0
Hall B229	0.1	0.0	20.9	0.0

Table 2

	Results of Analytes by Location							
Location	Radon	Mold AVG: 71 F AVG: 63 %	TO+15 VOCs	4PCH	Formaldehyde			
Cafeteria-2	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
Cafeteria 1	< 4 pCi/L	Spore Ratio Anomaly	< RSL	< 6.5 ug/m3	< RSL			
Media Center	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
E210	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
B205	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
D211	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
Auditorium	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
Main Admin	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
C127	< 4 pCi/L	Spore Ratio Anomaly	< RSL	< 6.5 ug/m3	< RSL			
Hall C106	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
E109	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
Main Gym	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
D108	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
Hall 159	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL			
Hallway B229	< 4 pCi/L	Spore Ratio Anomaly	< RSL	< 6.5 ug/m3	< RSL			

11. Quality Control Program

- TEC recognizes the importance of quality assurance (QA) and quality control (QC) measures as they relate to the performance of sample collection and processing.
- To ensure compliance with QA/QC measures, SOPs have been developed for field sample collection techniques, field sample screening procedures, multi-media sampling, and the accurate presentation of findings/reporting.
- All staff are provided these SOPs and are trained in these procedures before conducting work activities. TEC's Program Manager and the on-site PM/QCM will manage the quality control program.
- The PM will work closely with field technicians to ensure the success of the quality control program. All team members will receive copies of and abide by the quality control plan.
- Daily records will be kept of all operations, activities, and tests performed in the quality control program.
- All samples collected during this IAQ assessment were collected, processed, and shipped under the strictest chain of custody (CoC) guidelines.
- All samples were shipped for analysis by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory.







Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079

Phone: (571) 289-2173

Francis C Hammond Jr School 4646 Seminary Rd Alexandria, VA

Collected: August 23, 2021 Received: August 24, 2021 Reported: August 24, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 16 samples by FedEx in good condition for this project on August 24th, 2021.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Steve Hayes, BSMT(ASCP) Laboratory Director

Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



plan N. Hayes

Lab ID: #188863



DPH License: #PH-0198

Francis C Hammond Jr School 4646 Seminary Rd Alexandria, VA

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Spore Trap SOP - HMC#101

Sample Number	1	FH431	18596	2	FH 43	18601	3 FH 4318589			4 FH 4318600			
Sample Name		FH Cafe 1			FH B205			FH Hallway B229			FH Library		
Sample Volume	75.00 liter		75.00 liter				75.00 liter			75.00 liter			
Reporting Limit		13 spores/m ³			13 spores/m ³	1		13 spores/m ³			13 spores/m ³		
Background		2			2			2			2		
Fragments		ND			ND			ND			ND		
					_								
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	
Alternaria													
Ascospores	1	13	2.1%	2	27	40.0%	1	13	5.9%	3	40	75.0%	
Aspergillus Penicillium	5	67	10.4%				16	213	94.1%				
Basidiospores	4	53	8.3%							1	13	25.0%	
Bipolaris Drechslera													
Chaetomium													
Cladosporium	38	507	79.2%	3	40	60.0%							
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes													
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Cercospora													
Total	48	640	100%	5	67	100%	17	226	100%	4	53	100%	

MICROBIAL CONSULTING

Water Damage Indicator

Collected: Aug 23, 2021

Common Allergen

Received: Aug 24, 2021

Significantly Higher than Baseline

Ratio Abnormality

Reported: Aug 24, 2021

Project Analyst:

Shareef Abdelgadir, MS <

08 - 24 - 2021

Slightly Higher than Baseline

Date:

Reviewed By:

Steve Hayes, BSMT Stephen 11. Abylis

Date:

08 - 24 - 2021

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

contact@hayesmicrobial.com

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Francis C Hammond Jr School 4646 Seminary Rd Alexandria, VA

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Spore Trap SOP - HMC#101

Sample Number	5	FH 43	18597	6 FH 4318595			7 FH 4318591			8 FH4318611			
Sample Name	FH E210				FH D211		FH Outside			FH Cafe 2			
Sample Volume		75.00 liter		75.00 liter				75.00 liter		75.00 liter			
Reporting Limit		13 spores/m ³	}		13 spores/m ³			13 spores/m ³			13 spores/m ³	}	
Background		2			2			2			2		
Fragments		ND			ND			13/m ³			ND		
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	
Alternaria							2	27	1.5%				
Ascospores							19	253	14.4%	8	107	42.1%	
Aspergillus Penicillium							27	360	20.5%	2	27	10.5%	
Basidiospores	3	40	50.0%	1	13	33.3%	21	280	15.9%	6	80	31.6%	
Bipolaris Drechslera													
Chaetomium													
Cladosporium	1	13	16.7%	2	27	66.7%	56	747	42.4%	3	40	15.8%	
Curvularia	1	13	16.7%										
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes	1	13	16.7%				1	13	<1%				
Pithomyces							1	13	<1%				
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Cercospora							5	67	3.8%				
Total	6	79	100%	3	40	100%	132	1760	100%	19	254	100%	

MICROBIAL CONSULTING

Water Damage Indicator

Collected: Aug 23, 2021

Common Allergen

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Significantly Higher than Baseline

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Steve Hayes, BSMT Stephen 11. Abyus

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3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

contact@hayesmicrobial.com

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Francis C Hammond Jr School 4646 Seminary Rd Alexandria, VA

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Spore Trap SOP - HMC#101

Sample Number	9	FH 43	15273	10	FH 43	18602	11	11 FH 4318605			12 FH 431860		
Sample Name	FH C127				FH Avd			FH Main Office			FH Hallway 159		
Sample Volume	75.00 liter												
Reporting Limit		13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³	3	
Background		2			2			2			2		
Fragments		ND			ND			ND			ND		
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	
Alternaria													
Ascospores				3	40	21.4%							
Aspergillus Penicillium	38	507	100.0%	6	80	42.9%							
Basidiospores				3	40	21.4%	1	13	33.3%	1	13	11.1%	
Bipolaris Drechslera													
Chaetomium													
Cladosporium				2	27	14.3%				7	93	77.8%	
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes							2	27	66.7%	1	13	11.1%	
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Cercospora													
Total	38	507	100%	14	187	100%	3	40	100%	9	119	100%	

HAYES
MICROBIAL CONSULTING

Water Damage Indicator

Collected: Aug 23, 2021

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tealer N. Hours

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contact@hayesmicrobial.com

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8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Spore Trap SOP - HMC#101

	75.00 liter 13 spores/m ³			FH Gym 75.00 liter			FH E109			FH C109	
1	13 spores/m ³			75.00 liter					FH C109		
1						75.00 liter			75.00 liter		
				13 spores/m ³			13 spores/m ³			13 spores/m ³	
				2			2			2	
	ND			ND			ND			ND	
Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total
4	53	80.0%							1	13	33.3%
						1	13	25.0%	2	27	66.7%
1	13	20.0%	1	13	100.0%	2	27	50.0%			
						1	13	25.0%			
5	66	100%	1	13	100%	4	53	100%	3	40	100%
	1	1 13	1 13 20.0%	1 13 20.0% 1	1 13 20.0% 1 13	4 53 80.0% 1 13 20.0% 1 13 100.0%	4 53 80.0% 1 13 20.0% 1 13 100.0% 2 1	4 53 80.0% 1 13 20.0% 1 13 100.0% 2 27 1 13	4 53 80.0% 1 13 25.0% 1 13 20.0% 1 13 100.0% 2 27 50.0% 1 13 25.0% 1 13 25.0%	4 53 80.0% 1 1 13 20.0% 1 1 13 100.0% 2 2 27 50.0% 1 13 25.0%	4 53 80.0% 1 13 25.0% 2 27 1 13 20.0% 1 13 100.0% 2 27 50.0% 1 13 25.0%

MICROBIAL CONSULTING

Water Damage Indicator

Collected: Aug 23, 2021

Project Analyst:

Common Allergen

Received: Aug 24, 2021

Slightly Higher than Baseline

Date:

Reported: Aug 24, 2021

Date:

Ratio Abnormality

Shareef Abdelgadir, MS <

08 - 24 - 2021

Reviewed By:

Steve Hayes, BSMT Stephen 11. Abylis

Significantly Higher than Baseline

08 - 24 - 2021

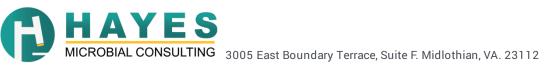
Francis C Hammond Jr School 4646 Seminary Rd Alexandria, VA

#21031427

Spore Trap Information

8382 Terminal Road Suite B
Lorton, VA 22079
(571) 289-2173

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:
	 NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1: <5% of field occluded. No spores will be uncountable. 2: 5-25% of field occluded. 3: 25-75% of field occluded. 4: 75-90% of field occluded. 5: >90% of field occluded. Suggested recollection of sample.
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.
Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination. Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Significantly Higher than Baseline	
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoo environment than it was outdoors.
Color Coding	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.



Karl Ford Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Francis C Hammond Jr School 4646 Seminary Rd Alexandria, VA

Organism Descriptions

#21031427

Alternaria	Habitat:	Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces.
	Effects:	A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.
Ascospores	Habitat:	A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.
	Effects:	Health affects are poorly studied, but many are likely to be allergenic.
Aspergillus Penicillium	Habitat:	The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.
	Effects:	This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.
Basidiospores	Habitat:	A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.
	Effects:	Common allergens and are also associated with hypersensitivity pneumonitis.
Cercospora	Habitat:	Found on wood and decaying plant matter.
	Effects:	Health effects are poorly studied.
	Habitat:	One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are
Cladosporium	navitat.	lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.
	Effects:	A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.



Karl Ford Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Francis C Hammond Jr School 4646 Seminary Rd Alexandria, VA

#21031427

Organism Descriptions

Curvularia	Habitat:	They exist in soil and plant debris, and are plant pathogens.
	Effects:	They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and desseminated infection, primarily in the immunocompromised.
Epicoccum	Habitat:	It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles and is commonly found on wet drywall.
	Effects:	It is a common allergen. No cases of infection have been reported in humans.
Myxomycetes	Habitat:	Found on decaying plant material and as a plant pathogen.
	Effects:	Some allergenic properties reported, but generally pose no health concerns to humans.
Pithomyces	Habitat:	Common fungus isolated from soil, decaying plant material. Rarely found indoors.
	Effects:	Allergenic properties are poorly studied. No cases of infection in humans.







Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079

Phone: (571) 289-2173

ACPS IAO

Collected: August 23, 2021 Received: August 24, 2021 Reported: August 24, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 1 samples by FedEx in good condition for this project on August 24th, 2021.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Steve Hayes, BSMT(ASCP) Laboratory Director

Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



phon N. Hoyes

Lab ID: #188863



DPH License: #PH-0198

Maggie Stanger Total Environmental Concepts, Inc.

ACPS IAQ

#21031428

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Direct Analysis SOP - HMC#102

#1	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
FH-1 -	FH-Cafe-Stairs	Cladosporium	Heavy	Many



Collected: Aug 23, 2021

Received: Aug 24, 2021

Reported: Aug 24, 2021

Revision: 2

Project Analyst:
Ramesh Poluri, PhD

. 1

Date: **08 - 24 - 2021**

Reviewed By:

Steve Hayes, BSMT

Date: **08 - 25 - 2021**

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

contact@hayesmicrobial.com

Page: **2** of **4**

Very Heavy

Lorton, VA 22079 (571) 289-2173

ACPS IAQ

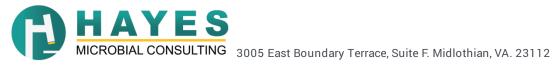
#21031428

Direct Analysis Information

Spore Estimate Percentages None Detected 0% ND Less than 10 spores < 1% Rare Light 10 - 99 spores 1-10% 11-25% Moderate 100 - 999 spores Heavy 1000 - 9999 spores 26-50%

10000 or greater spores

Mycelial Estin	ial Estimate	
ND	None Detected No active growth at site.	
Trace	Very small amount of Mycelium Probably no active growth at site.	
Few	Some Mycelium Possible active growth at site.	
Many	Large amount of Mycelium Probable active growth at site.	



51-100%

Maggie Stanger Total Environmental Concepts, Inc.

ACPS IAQ

#21031428

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

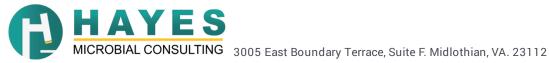
Organism Descriptions

Cladosporium

Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon

and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.

Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.



H 43 8602 FH FH 43 8612 FH FH 43 8612 FH FH 43 8612 FH FH 4315281 -H 4218605 Environmental
Environmental
Concepts, Inc. FH hallway 159 FH D108 FH and bzos hallway 8229 6109 6109 E210 102/m tammonc lacement Date scement Tech 3 1056 HUS 25, 2021 Enail Trock
HUS 25, 2021 Enail
HUS 25, 2021 1053 1154 800/ 1100 Thos 1046 1046 1046 113 110.56 1033 02 Alexandraia



Collector: Maggie 5 Job Number:

> 8382 Terminal Rd SoiteB

Lab Use Only]

Company: TEC Address: Locten, VA 22079

Job Name:

ACPS TAG

Mobile: 240 - 778-9521 Email: Kford@teci, Pro

Date Collected: 8/23/2021	22/2021				Note:		
Analysis Type		. 1	Analysis Description		Turnaround		Accepted Media Types
	S	Identification & Enu	dentification & Enumeration of Fungal Spores		24 Hour	Air Cassette	Air Cassettes, Impact Slides
	S+	Spore Trap Analysis	Spore Trap Analysis with Dander, Fiber, and Pollen counts		24 Hour	Air Cassette	Air Cassettes, Impact Slides
Direct ID	D	ID & Semi-Quantativ	ID & Semi-Quantative Enumeration of spores and mycelium	В	24 Hour	Bio-Tape, Tape, Swa	pe, Swab, Bulk, Agar Plate
	₽	Direct Analysis with	Direct Analysis with Fully Quantitative spore count		24 Hour	Bio-Tape, Tape, Swa	pe, Swab, Bulk, Agar Plate
Culture	CI	Identification & Enu	Identification & Enumeration of Mold only		7 Day	Air Plate, Ag	Air Plate, Agar Plate, Swab, Bulk
	C2	Identification & Enu	Identification & Enumeration of Bacteria only		4 Day	Air Plate, Agar Plate,	jar Plate, Swab, Bulk
State of the State	ដ	Identification & Enu	Identification & Enumeration of Mold and Bacteria		7 Day	Air Plate, Ag	Air Plate, Agar Plate, Swab, Bulk
2000	C5	Coliform Screen for Sewage Bacteria	Sewage Bacteria		2 Day	Agar Plate, Swab, Bulk	Swab, Bulk
Particle	TPA	Total Particulate An	Total Particulate Analysis, ID & Count (Does Not Include Mold)	Mold)	24 Hour	Air Cassette	Air Cassettes, Impact Slides, Bio-Tape
# Number	-		Sample	Analysis	ysis Volume		Notes
1 FH-1		FH-Cafe	-Stairs	mold		water	- damage (maisture level so'l)
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
Released by:			Date:	Received By:			Date:
ayes Microbial Consulting, LLC.	, LLC.	3005 East Boundary Ter	3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112	(804) 562-3435	contact@hayesmicrobial.com	bial.com	Form #20, Rev.3, March 23, 2019

Appendix B: Radon Analytical Results

August 30, 2021

** LABORATORY ANALYSIS REPORT **

Pg 1 of 3

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723707

Result: < 0.3 pCi/l

Location:

Fh Aud 2

Kit #: 9723810

Result: < 0.3 pCi/l

Result: < 0.3 pCi/l

Location:

Fh Case 1

Kit #: 9723830 Result: < 0.3 pCi/l

Location:

Fh COFZB

Kit #: 9723831 Result: < 0.3 pCi/l

Location:

D108 Fh

Kit #: 9723835

Location:

case 2 Fh

Kit #: 9723836

Result: < 0.3 pCi/l

Location:

(WEID

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 11:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 78 hours 9.6% 70°F

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 10:00 am Ended: 2021-08-26 at 5:00 pm

Hours/MST%: 79 hours 12.9% 70°F

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 10:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 79 hours 5.2% 70°F

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 10:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 79 hours 12.0% 70°F

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am

Started: 2021-08-23 at 10:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 79 hours 13.6% 70°F

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 10:00 am

Ended: 2021-08-26 at 5:00 pm Hours/MST%: 79 hours 13.8% 70°F August 30, 2021

** LABORATORY ANALYSIS REPORT **

Pg 2 of 3

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723838

Result: < 0.3 pCi/l

Location:

Fh Gyml

Kit #: 9723841 Location:

Fh Mall 159 DIO1

Kit #: 9723842

Location:

main office

Kit #: 9723843

Location:

Gym 2

Kit #: 9723844

Location:

Kit #: 9723845

Fh EZIO

Location:

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 10:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 79 hours 11.5% 70°F

Analysis Note: Analyzed: 2021-08-30 at 10:00 am

Started: 2021-08-23 at 11:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 78 hours 11.8% 70°F

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 11:00 am Ended: 2021-08-26 at 5:00 pm

Hours/MST%: 78 hours 10.0% 70°F

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 10:00 am Ended: 2021-08-26 at 5:00 pm

Hours/MST%: 79 hours 11.5% 70°F

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 11:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 78 hours 15.0% 70°F

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 11:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 78 hours 12.8% 70°F

August 30, 2021

** LABORATORY ANALYSIS REPORT **

Pg 3 of 3

Attention: P8184/L	EILA DEAN / TOTAL ENVIRONMENTAL CO	ONCEPTS
--------------------	------------------------------------	---------

Kit #: 9723848

Result: < 0.3 pCi/l

Location:

E109

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 11:00 am Ended: 2021-08-26 at 5:00 pm

Hours/MST%: 78 hours 11.0% 70°F

Kit #: 9723850

Location:

Aud 1

Result: < 0.3 pCi/l

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 11:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 78 hours 10.2% 70°F

Kit #: 9723851

Result: < 0.3 pCi/l

Location:

C127 Fh

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 11:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 78 hours 12.1% 70°F

Kit #: 9723853

Location:

BZOS

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 12:00 pm Ended: 2021-08-26 at 5:00 pm Hours/MST%: 77 hours 12.1% 70°F

Kit #: 9723854

Result: < 0.3 pCi/l

Result: < 0.3 pCi/l

Location:

media center

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 11:00 am Ended: 2021-08-26 at 5:00 pm Hours/MST%: 78 hours 12.1% 70°F

Kit #: 9723859

Result: < 0.3 pCi/l

Location:

B205D

Analysis Note:

Analyzed: 2021-08-30 at 10:00 am Started: 2021-08-23 at 12:00 pm Ended: 2021-08-26 at 5:00 pm Hours/MST%: 77 hours 12.6% 70°F

Email	C. Hammond	Address FRANCIS
Pickup Date	Sample Media	Placement Date 8/23/2
Pickup Tech	Sample Type FAGON .	Placement Tech Maggie

MARK CHE	Placement Date	8/23/21		Sample Media		1	Pickup Date	
THE STREET STREET STREET		Francis C. Hammond					Email	Ktord (attc pro
	Location/ nom	\$QFT>2000	HVAC Y/N	Window Y/N	Fan Y/N	Time in	Time out	Comment
FH9723810	FH TAFE-1		۴	~		11:01	i i	
FH9723635	FH-Cafe-2		-c	~ C	7	10:03		
FH9723836D	FH-Cate-10			~C	7	(1;01		
FH 9723 830B	FH-case-2B		~	~	5	10:03		
EH 97 23837	FH-Hall COCCIOS		ح	2.	7	10:14		
FH9723838	FH-CKM-1		7	-(7	10:22		
FH 9723 SU3	FH-C1 YM-2		~	~	5	10:22		
FH 9723831	8010H	A		4	2	10:30	San Albania	
	FH-Hall (59 D10)		Z	_c	2	101.32		
FH 9723842	FH - Main office			ĭ	2	10:43		
FH 9723 850	FH-Auditorium -1		4	Z	2	10,80		
FN 9723 707	FH-Auditorium-2		-<	5	2	10:50		
FH 9723851	PH-C127		بد	~	2	11:00		
49722848	FH -E 109			ح	2	10,04		
FH 972 5845	FH- E210		-c	_	2	1.13		
H18226H7	FH - 0211	100	~	~	>	1:22		
H 28 67 L6 H	FH - Media Center		~	٠ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	2	11:28		
H 89723852	FH - Hall 8227 B222		2	~(2	11'.35		
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Appendix C: VOCs (TO+15) Analytical Results



6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

September 2, 2021

Karl Ford
Total Environmental Concepts - Lorton
8382 Terminal Road, Suite B
Lorton, VA 22079

Reference: PSS Project No: 21082404

Project Name: ACPS - Francis Hammond MS

Project Location: 4646 Seminary Rd. Alexandria, VA

Project ID.: 2471.0002



Dear Karl Ford:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **21082404**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 28, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

TNI Lyboratori



Explanation of Qualifiers

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

SCIENCE

Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Project ID: 2471.0002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/24/2021 at 11:30 am

PSS Sample ID	Sample ID	Matrix	Date/Time Collected	
21082404-001	Cafeteria 2	AIR	08/23/21 17:06	
21082404-002	Cafeteria 1	AIR	08/23/21 17:10	
21082404-003	Main Gymnasium	AIR	08/23/21 17:18	
21082404-004	C109 Hallway	AIR	08/23/21 17:26	
21082404-005	C127 Classroom	AIR	08/23/21 18:04	
21082404-006	Auditorium	AIR	08/23/21 18:08	
21082404-007	Admin Office	AIR	08/23/21 17:37	
21082404-008	D108 Classroom	AIR	08/23/21 17:48	
21082404-009	159 Hallway	AIR	08/23/21 17:44	
21082404-010	E109 Classroom	AIR	08/23/21 17:32	
21082404-011	B205 Classroom	AIR	08/23/21 18:20	
21082404-012	E210 Classroom	AIR	08/23/21 18:27	
21082404-013	Media Center	AIR	08/23/21 18:32	
21082404-014	D211 Classroom	AIR	08/23/21 18:40	
21082404-015	Outside Courtyard	AIR	08/23/21 18:15	

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.



Explanation of Qualifiers

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SCIENCE

Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156

State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: D108 Classroom Date/Time Sampled: 08/23/2021 17:48 PSS Sample ID: 21082404-008

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

_	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
Acetone	17	ug/M3	9.5	1	08/25/21	08/25/21 17:15	1014
Benzene	0.35	ug/M3	0.32	1	08/25/21	08/25/21 17:15	1014
Benzyl Chloride	ND	ug/M3	1.0	1	08/25/21	08/25/21 17:15	1014
Bromodichloromethane	ND	ug/M3	1.3	1	08/25/21	08/25/21 17:15	1014
Bromoform	ND	ug/M3	2.1	1	08/25/21	08/25/21 17:15	1014
Bromomethane	ND	ug/M3	0.78	1	08/25/21	08/25/21 17:15	1014
1,3-Butadiene	ND	ug/M3	0.44	1	08/25/21	08/25/21 17:15	1014
2-Butanone (MEK)	1.5	ug/M3	1.5	1	08/25/21	08/25/21 17:15	1014
Carbon Disulfide	ND	ug/M3	12	1	08/25/21	08/25/21 17:15	1014
Carbon Tetrachloride	ND	ug/M3	1.3	1	08/25/21	08/25/21 17:15	1014
Chlorobenzene	ND	ug/M3	0.92	1	08/25/21	08/25/21 17:15	1014
Chloroethane	ND	ug/M3	0.53	1	08/25/21	08/25/21 17:15	1014
Chloroform	ND	ug/M3	0.98	1	08/25/21	08/25/21 17:15	1014
Chloromethane	1.0	ug/M3	0.41	1	08/25/21	08/25/21 17:15	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63	1	08/25/21	08/25/21 17:15	1014
Cyclohexane	ND	ug/M3	0.69	1	08/25/21	08/25/21 17:15	1014
Dibromochloromethane	ND	ug/M3	1.7	1	08/25/21	08/25/21 17:15	1014
1,2-Dibromoethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 17:15	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 17:15	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 17:15	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 17:15	1014
Dichlorodifluoromethane	1.2	ug/M3	0.99	1	08/25/21	08/25/21 17:15	1014
1,1-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 17:15	1014
1,2-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 17:15	1014
1,1-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 17:15	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 17:15	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 17:15	1014
1,2-Dichloropropane	ND	ug/M3	1.8	1	08/25/21	08/25/21 17:15	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 17:15	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 17:15	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 17:15	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6	1	08/25/21	08/25/21 17:15	1014
Ethyl Acetate	ND	ug/M3	0.72	1	08/25/21	08/25/21 17:15	1014
Ethylbenzene	ND	ug/M3	0.43	1	08/25/21	08/25/21 17:15	1014
4-Ethyltoluene	ND	ug/M3	0.98	1	08/25/21	08/25/21 17:15	1014



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: D108 Classroom Date/Time Sampled: 08/23/2021 17:48 PSS Sample ID: 21082404-008

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

_	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82	1	08/25/21	08/25/21 17:15	1014
Hexachlorobutadiene	ND	ug/M3	2.1	1	08/25/21	08/25/21 17:15	1014
n-Hexane	ND	ug/M3	14	1	08/25/21	08/25/21 17:15	1014
2-Hexanone (MBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 17:15	1014
Isopropylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 17:15	1014
Methylene Chloride	ND	ug/M3	14	1	08/25/21	08/25/21 17:15	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 17:15	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36	1	08/25/21	08/25/21 17:15	1014
Naphthalene	ND	ug/M3	0.52	1	08/25/21	08/25/21 17:15	1014
Propylene	ND	ug/M3	1.7	1	08/25/21	08/25/21 17:15	1014
n-Propylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 17:15	1014
Styrene	ND	ug/M3	4.3	1	08/25/21	08/25/21 17:15	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 17:15	1014
Tetrachloroethene	ND	ug/M3	1.4	1	08/25/21	08/25/21 17:15	1014
Tetrahydrofuran	ND	ug/M3	0.59	1	08/25/21	08/25/21 17:15	1014
Toluene	0.87	ug/M3	0.38	1	08/25/21	08/25/21 17:15	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5	1	08/25/21	08/25/21 17:15	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 17:15	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 17:15	1014
Trichloroethene	ND	ug/M3	1.1	1	08/25/21	08/25/21 17:15	1014
Trichlorofluoromethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 17:15	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 17:15	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 17:15	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 17:15	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93	1	08/25/21	08/25/21 17:15	1014
Vinyl acetate	ND	ug/M3	1.8	1	08/25/21	08/25/21 17:15	1014
Bromoethene	ND	ug/M3	0.87	1	08/25/21	08/25/21 17:15	1014
Vinyl chloride	ND	ug/M3	0.51	1	08/25/21	08/25/21 17:15	1014
m&p-Xylene	ND	ug/M3	0.87	1	08/25/21	08/25/21 17:15	1014
o-Xylene	ND	ug/M3	0.43	1	08/25/21	08/25/21 17:15	1014
Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	98	%	87-120	1	08/25/21	08/25/21 17:15	1014



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: 159 Hallway Date/Time Sampled: 08/23/2021 17:44 PSS Sample ID: 21082404-009

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

_	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
Acetone	18	ug/M3	9.5	1	08/25/21	08/25/21 18:09	1014
Benzene	ND	ug/M3	0.32	1	08/25/21	08/25/21 18:09	1014
Benzyl Chloride	ND	ug/M3	1.0	1	08/25/21	08/25/21 18:09	1014
Bromodichloromethane	ND	ug/M3	1.3	1	08/25/21	08/25/21 18:09	1014
Bromoform	ND	ug/M3	2.1	1	08/25/21	08/25/21 18:09	1014
Bromomethane	ND	ug/M3	0.78	1	08/25/21	08/25/21 18:09	1014
1,3-Butadiene	ND	ug/M3	0.44	1	08/25/21	08/25/21 18:09	1014
2-Butanone (MEK)	1.6	ug/M3	1.5	1	08/25/21	08/25/21 18:09	1014
Carbon Disulfide	ND	ug/M3	12	1	08/25/21	08/25/21 18:09	1014
Carbon Tetrachloride	ND	ug/M3	1.3	1	08/25/21	08/25/21 18:09	1014
Chlorobenzene	ND	ug/M3	0.92	1	08/25/21	08/25/21 18:09	1014
Chloroethane	ND	ug/M3	0.53	1	08/25/21	08/25/21 18:09	1014
Chloroform	ND	ug/M3	0.98	1	08/25/21	08/25/21 18:09	1014
Chloromethane	0.93	ug/M3	0.41	1	08/25/21	08/25/21 18:09	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63	1	08/25/21	08/25/21 18:09	1014
Cyclohexane	ND	ug/M3	0.69	1	08/25/21	08/25/21 18:09	1014
Dibromochloromethane	ND	ug/M3	1.7	1	08/25/21	08/25/21 18:09	1014
1,2-Dibromoethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 18:09	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 18:09	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 18:09	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 18:09	1014
Dichlorodifluoromethane	1.4	ug/M3	0.99	1	08/25/21	08/25/21 18:09	1014
1,1-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 18:09	1014
1,2-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 18:09	1014
1,1-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 18:09	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 18:09	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 18:09	1014
1,2-Dichloropropane	ND	ug/M3	1.8	1	08/25/21	08/25/21 18:09	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 18:09	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 18:09	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 18:09	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6	1	08/25/21	08/25/21 18:09	1014
Ethyl Acetate	ND	ug/M3	0.72	1	08/25/21	08/25/21 18:09	1014
Ethylbenzene	ND	ug/M3	0.43	1	08/25/21	08/25/21 18:09	1014
4-Ethyltoluene	ND	ug/M3	0.98	1	08/25/21	08/25/21 18:09	1014



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: 159 Hallway Date/Time Sampled: 08/23/2021 17:44 PSS Sample ID: 21082404-009

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

_	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82	1	08/25/21	08/25/21 18:09	1014
Hexachlorobutadiene	ND	ug/M3	2.1	1	08/25/21	08/25/21 18:09	1014
n-Hexane	ND	ug/M3	14	1	08/25/21	08/25/21 18:09	1014
2-Hexanone (MBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 18:09	1014
Isopropylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 18:09	1014
Methylene Chloride	ND	ug/M3	14	1	08/25/21	08/25/21 18:09	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 18:09	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36	1	08/25/21	08/25/21 18:09	1014
Naphthalene	ND	ug/M3	0.52	1	08/25/21	08/25/21 18:09	1014
Propylene	ND	ug/M3	1.7	1	08/25/21	08/25/21 18:09	1014
n-Propylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 18:09	1014
Styrene	ND	ug/M3	4.3	1	08/25/21	08/25/21 18:09	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 18:09	1014
Tetrachloroethene	ND	ug/M3	1.4	1	08/25/21	08/25/21 18:09	1014
Tetrahydrofuran	ND	ug/M3	0.59	1	08/25/21	08/25/21 18:09	1014
Toluene	0.75	ug/M3	0.38	1	08/25/21	08/25/21 18:09	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5	1	08/25/21	08/25/21 18:09	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 18:09	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 18:09	1014
Trichloroethene	ND	ug/M3	1.1	1	08/25/21	08/25/21 18:09	1014
Trichlorofluoromethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 18:09	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 18:09	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 18:09	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 18:09	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93	1	08/25/21	08/25/21 18:09	1014
Vinyl acetate	ND	ug/M3	1.8	1	08/25/21	08/25/21 18:09	1014
Bromoethene	ND	ug/M3	0.87	1	08/25/21	08/25/21 18:09	1014
Vinyl chloride	ND	ug/M3	0.51	1	08/25/21	08/25/21 18:09	1014
m&p-Xylene	ND	ug/M3	0.87	1	08/25/21	08/25/21 18:09	1014
o-Xylene	ND	ug/M3	0.43	1	08/25/21	08/25/21 18:09	1014
Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	97	%	87-120	1	08/25/21	08/25/21 18:09	1014



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: Media Center Date/Time Sampled: 08/23/2021 18:32 PSS Sample ID: 21082404-013

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

_	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
Acetone	17	ug/M3	9.5	1	08/25/21	08/25/21 19:03	1014
Benzene	0.35	ug/M3	0.32	1	08/25/21	08/25/21 19:03	1014
Benzyl Chloride	ND	ug/M3	1.0	1	08/25/21	08/25/21 19:03	1014
Bromodichloromethane	ND	ug/M3	1.3	1	08/25/21	08/25/21 19:03	1014
Bromoform	ND	ug/M3	2.1	1	08/25/21	08/25/21 19:03	1014
Bromomethane	ND	ug/M3	0.78	1	08/25/21	08/25/21 19:03	1014
1,3-Butadiene	ND	ug/M3	0.44	1	08/25/21	08/25/21 19:03	1014
2-Butanone (MEK)	1.6	ug/M3	1.5	1	08/25/21	08/25/21 19:03	1014
Carbon Disulfide	ND	ug/M3	12	1	08/25/21	08/25/21 19:03	1014
Carbon Tetrachloride	ND	ug/M3	1.3	1	08/25/21	08/25/21 19:03	1014
Chlorobenzene	ND	ug/M3	0.92	1	08/25/21	08/25/21 19:03	1014
Chloroethane	ND	ug/M3	0.53	1	08/25/21	08/25/21 19:03	1014
Chloroform	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:03	1014
Chloromethane	0.78	ug/M3	0.41	1	08/25/21	08/25/21 19:03	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63	1	08/25/21	08/25/21 19:03	1014
Cyclohexane	ND	ug/M3	0.69	1	08/25/21	08/25/21 19:03	1014
Dibromochloromethane	ND	ug/M3	1.7	1	08/25/21	08/25/21 19:03	1014
1,2-Dibromoethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 19:03	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 19:03	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 19:03	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 19:03	1014
Dichlorodifluoromethane	1.2	ug/M3	0.99	1	08/25/21	08/25/21 19:03	1014
1,1-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 19:03	1014
1,2-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 19:03	1014
1,1-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 19:03	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 19:03	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 19:03	1014
1,2-Dichloropropane	ND	ug/M3	1.8	1	08/25/21	08/25/21 19:03	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 19:03	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 19:03	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 19:03	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6	1	08/25/21	08/25/21 19:03	1014
Ethyl Acetate	ND	ug/M3	0.72	1	08/25/21	08/25/21 19:03	1014
Ethylbenzene	ND	ug/M3	0.43	1	08/25/21	08/25/21 19:03	1014
4-Ethyltoluene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:03	1014



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: Media Center Date/Time Sampled: 08/23/2021 18:32 PSS Sample ID: 21082404-013

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

<u></u>	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82	1	08/25/21	08/25/21 19:03	1014
Hexachlorobutadiene	ND	ug/M3	2.1	1	08/25/21	08/25/21 19:03	1014
n-Hexane	ND	ug/M3	14	1	08/25/21	08/25/21 19:03	1014
2-Hexanone (MBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 19:03	1014
Isopropylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:03	1014
Methylene Chloride	ND	ug/M3	14	1	08/25/21	08/25/21 19:03	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 19:03	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36	1	08/25/21	08/25/21 19:03	1014
Naphthalene	0.58	ug/M3	0.52	1	08/25/21	08/25/21 19:03	1014
Propylene	ND	ug/M3	1.7	1	08/25/21	08/25/21 19:03	1014
n-Propylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:03	1014
Styrene	ND	ug/M3	4.3	1	08/25/21	08/25/21 19:03	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 19:03	1014
Tetrachloroethene	ND	ug/M3	1.4	1	08/25/21	08/25/21 19:03	1014
Tetrahydrofuran	ND	ug/M3	0.59	1	08/25/21	08/25/21 19:03	1014
Toluene	1.1	ug/M3	0.38	1	08/25/21	08/25/21 19:03	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5	1	08/25/21	08/25/21 19:03	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 19:03	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 19:03	1014
Trichloroethene	ND	ug/M3	1.1	1	08/25/21	08/25/21 19:03	1014
Trichlorofluoromethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 19:03	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 19:03	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:03	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:03	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93	1	08/25/21	08/25/21 19:03	1014
Vinyl acetate	ND	ug/M3	1.8	1	08/25/21	08/25/21 19:03	1014
Bromoethene	ND	ug/M3	0.87	1	08/25/21	08/25/21 19:03	1014
Vinyl chloride	ND	ug/M3	0.51	1	08/25/21	08/25/21 19:03	1014
m&p-Xylene	ND	ug/M3	0.87	1	08/25/21	08/25/21 19:03	1014
o-Xylene	ND	ug/M3	0.43	1	08/25/21	08/25/21 19:03	1014
Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	98	%	87-120	1	08/25/21	08/25/21 19:03	1014



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: D211 Classroom Date/Time Sampled: 08/23/2021 18:40 PSS Sample ID: 21082404-014

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

_	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
Acetone	16	ug/M3	9.5	1	08/25/21	08/25/21 19:57	1014
Benzene	ND	ug/M3	0.32	1	08/25/21	08/25/21 19:57	1014
Benzyl Chloride	ND	ug/M3	1.0	1	08/25/21	08/25/21 19:57	1014
Bromodichloromethane	ND	ug/M3	1.3	1	08/25/21	08/25/21 19:57	1014
Bromoform	ND	ug/M3	2.1	1	08/25/21	08/25/21 19:57	1014
Bromomethane	ND	ug/M3	0.78	1	08/25/21	08/25/21 19:57	1014
1,3-Butadiene	ND	ug/M3	0.44	1	08/25/21	08/25/21 19:57	1014
2-Butanone (MEK)	ND	ug/M3	1.5	1	08/25/21	08/25/21 19:57	1014
Carbon Disulfide	ND	ug/M3	12	1	08/25/21	08/25/21 19:57	1014
Carbon Tetrachloride	ND	ug/M3	1.3	1	08/25/21	08/25/21 19:57	1014
Chlorobenzene	ND	ug/M3	0.92	1	08/25/21	08/25/21 19:57	1014
Chloroethane	ND	ug/M3	0.53	1	08/25/21	08/25/21 19:57	1014
Chloroform	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:57	1014
Chloromethane	0.89	ug/M3	0.41	1	08/25/21	08/25/21 19:57	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63	1	08/25/21	08/25/21 19:57	1014
Cyclohexane	ND	ug/M3	0.69	1	08/25/21	08/25/21 19:57	1014
Dibromochloromethane	ND	ug/M3	1.7	1	08/25/21	08/25/21 19:57	1014
1,2-Dibromoethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 19:57	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 19:57	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 19:57	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 19:57	1014
Dichlorodifluoromethane	1.3	ug/M3	0.99	1	08/25/21	08/25/21 19:57	1014
1,1-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 19:57	1014
1,2-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 19:57	1014
1,1-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 19:57	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 19:57	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 19:57	1014
1,2-Dichloropropane	ND	ug/M3	1.8	1	08/25/21	08/25/21 19:57	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 19:57	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 19:57	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 19:57	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6	1	08/25/21	08/25/21 19:57	1014
Ethyl Acetate	ND	ug/M3	0.72	1	08/25/21	08/25/21 19:57	1014
Ethylbenzene	ND	ug/M3	0.43	1	08/25/21	08/25/21 19:57	1014
4-Ethyltoluene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:57	1014



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: D211 Classroom Date/Time Sampled: 08/23/2021 18:40 PSS Sample ID: 21082404-014

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

_	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82	1	08/25/21	08/25/21 19:57	1014
Hexachlorobutadiene	ND	ug/M3	2.1	1	08/25/21	08/25/21 19:57	1014
n-Hexane	ND	ug/M3	14	1	08/25/21	08/25/21 19:57	1014
2-Hexanone (MBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 19:57	1014
Isopropylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:57	1014
Methylene Chloride	ND	ug/M3	14	1	08/25/21	08/25/21 19:57	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 19:57	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36	1	08/25/21	08/25/21 19:57	1014
Naphthalene	ND	ug/M3	0.52	1	08/25/21	08/25/21 19:57	1014
Propylene	ND	ug/M3	1.7	1	08/25/21	08/25/21 19:57	1014
n-Propylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:57	1014
Styrene	ND	ug/M3	4.3	1	08/25/21	08/25/21 19:57	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 19:57	1014
Tetrachloroethene	ND	ug/M3	1.4	1	08/25/21	08/25/21 19:57	1014
Tetrahydrofuran	ND	ug/M3	0.59	1	08/25/21	08/25/21 19:57	1014
Toluene	0.57	ug/M3	0.38	1	08/25/21	08/25/21 19:57	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5	1	08/25/21	08/25/21 19:57	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 19:57	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 19:57	1014
Trichloroethene	ND	ug/M3	1.1	1	08/25/21	08/25/21 19:57	1014
Trichlorofluoromethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 19:57	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 19:57	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:57	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 19:57	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93	1	08/25/21	08/25/21 19:57	1014
Vinyl acetate	ND	ug/M3	1.8	1	08/25/21	08/25/21 19:57	1014
Bromoethene	ND	ug/M3	0.87	1	08/25/21	08/25/21 19:57	1014
Vinyl chloride	ND	ug/M3	0.51	1	08/25/21	08/25/21 19:57	1014
m&p-Xylene	ND	ug/M3	0.87	1	08/25/21	08/25/21 19:57	1014
o-Xylene	ND	ug/M3	0.43	1	08/25/21	08/25/21 19:57	1014
Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	99	%	87-120	1	08/25/21	08/25/21 19:57	1014



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: Outside Courtyard Date/Time Sampled: 08/23/2021 18:15 PSS Sample ID: 21082404-015

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
Acetone	13	ug/M3	9.5	1	08/25/21	08/25/21 20:51	1014
Benzene	ND	ug/M3	0.32	1	08/25/21	08/25/21 20:51	1014
Benzyl Chloride	ND	ug/M3	1.0	1	08/25/21	08/25/21 20:51	1014
Bromodichloromethane	ND	ug/M3	1.3	1	08/25/21	08/25/21 20:51	1014
Bromoform	ND	ug/M3	2.1	1	08/25/21	08/25/21 20:51	1014
Bromomethane	ND	ug/M3	0.78	1	08/25/21	08/25/21 20:51	1014
1,3-Butadiene	ND	ug/M3	0.44	1	08/25/21	08/25/21 20:51	1014
2-Butanone (MEK)	ND	ug/M3	1.5	1	08/25/21	08/25/21 20:51	1014
Carbon Disulfide	ND	ug/M3	12	1	08/25/21	08/25/21 20:51	1014
Carbon Tetrachloride	ND	ug/M3	1.3	1	08/25/21	08/25/21 20:51	1014
Chlorobenzene	ND	ug/M3	0.92	1	08/25/21	08/25/21 20:51	1014
Chloroethane	ND	ug/M3	0.53	1	08/25/21	08/25/21 20:51	1014
Chloroform	ND	ug/M3	0.98	1	08/25/21	08/25/21 20:51	1014
Chloromethane	0.89	ug/M3	0.41	1	08/25/21	08/25/21 20:51	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63	1	08/25/21	08/25/21 20:51	1014
Cyclohexane	ND	ug/M3	0.69	1	08/25/21	08/25/21 20:51	1014
Dibromochloromethane	ND	ug/M3	1.7	1	08/25/21	08/25/21 20:51	1014
1,2-Dibromoethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 20:51	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 20:51	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 20:51	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2	1	08/25/21	08/25/21 20:51	1014
Dichlorodifluoromethane	1.3	ug/M3	0.99	1	08/25/21	08/25/21 20:51	1014
1,1-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 20:51	1014
1,2-Dichloroethane	ND	ug/M3	0.81	1	08/25/21	08/25/21 20:51	1014
1,1-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 20:51	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 20:51	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79	1	08/25/21	08/25/21 20:51	1014
1,2-Dichloropropane	ND	ug/M3	1.8	1	08/25/21	08/25/21 20:51	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 20:51	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91	1	08/25/21	08/25/21 20:51	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 20:51	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6	1	08/25/21	08/25/21 20:51	1014
Ethyl Acetate	ND	ug/M3	0.72	1	08/25/21	08/25/21 20:51	1014
Ethylbenzene	ND	ug/M3	0.43	1	08/25/21	08/25/21 20:51	1014
4-Ethyltoluene					08/25/21		1014



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Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Sample ID: Outside Courtyard Date/Time Sampled: 08/23/2021 18:15 PSS Sample ID: 21082404-015

Matrix: AIR Date/Time Received: 08/24/2021 11:30

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

_	Result	Units	RL	Flag Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82	1	08/25/21	08/25/21 20:51	1014
Hexachlorobutadiene	ND	ug/M3	2.1	1	08/25/21	08/25/21 20:51	1014
n-Hexane	ND	ug/M3	14	1	08/25/21	08/25/21 20:51	1014
2-Hexanone (MBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 20:51	1014
Isopropylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 20:51	1014
Methylene Chloride	ND	ug/M3	14	1	08/25/21	08/25/21 20:51	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0	1	08/25/21	08/25/21 20:51	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36	1	08/25/21	08/25/21 20:51	1014
Naphthalene	ND	ug/M3	0.52	1	08/25/21	08/25/21 20:51	1014
Propylene	ND	ug/M3	1.7	1	08/25/21	08/25/21 20:51	1014
n-Propylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 20:51	1014
Styrene	ND	ug/M3	4.3	1	08/25/21	08/25/21 20:51	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4	1	08/25/21	08/25/21 20:51	1014
Tetrachloroethene	ND	ug/M3	1.4	1	08/25/21	08/25/21 20:51	1014
Tetrahydrofuran	ND	ug/M3	0.59	1	08/25/21	08/25/21 20:51	1014
Toluene	0.49	ug/M3	0.38	1	08/25/21	08/25/21 20:51	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5	1	08/25/21	08/25/21 20:51	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 20:51	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 20:51	1014
Trichloroethene	ND	ug/M3	1.1	1	08/25/21	08/25/21 20:51	1014
Trichlorofluoromethane	ND	ug/M3	1.1	1	08/25/21	08/25/21 20:51	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5	1	08/25/21	08/25/21 20:51	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 20:51	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98	1	08/25/21	08/25/21 20:51	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93	1	08/25/21	08/25/21 20:51	1014
Vinyl acetate	ND	ug/M3	1.8	1	08/25/21	08/25/21 20:51	1014
Bromoethene	ND	ug/M3	0.87	1	08/25/21	08/25/21 20:51	1014
Vinyl chloride	ND	ug/M3	0.51	1	08/25/21	08/25/21 20:51	1014
m&p-Xylene	ND	ug/M3	0.87	1	08/25/21	08/25/21 20:51	1014
o-Xylene	ND	ug/M3	0.43	1	08/25/21	08/25/21 20:51	1014
Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	98	%	87-120	1	08/25/21	08/25/21 20:51	1 1014





1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com VELAP ID 460040

01 September 2021

Amber Confer
Phase Separation Science, Inc.
6630 Baltimore National Pike, Route 40 West
Baltimore, MD 21228

RE: ACPS

Enclosed are the results of analyses for samples received by the laboratory on 08/25/21 11:10.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

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

Sincerely,

Rabecka Koons

Quality Assurance Officer

lakecka Koms

08/23/21 18:27



Project: ACPS

Project Manager: Amber Confer

Project Number: [none]

E210 CLASSROOM

21082404-012

Analytical Results

nela de la proposición dela proposición de la pr

1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

08/25/21 11:10

Reported: 09/01/21 17:13

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CAFETERIA 2	21082404-001	1082526-01	Vapor	08/23/21 17:06	08/25/21 11:10
CAFETERIA 1	21082404-002	1082526-02	Vapor	08/23/21 17:10	08/25/21 11:10
MAIN GYMNASIU	M 21082404-003	1082526-03	Vapor	08/23/21 17:18	08/25/21 11:10
C109 HALLWAY	21082404-004	1082526-04	Vapor	08/23/21 17:26	08/25/21 11:10
C127 CLASSROOM	21082404-005	1082526-05	Vapor	08/23/21 18:04	08/25/21 11:10
AUDITORIUM	21082404-006	1082526-06	Vapor	08/23/21 18:08	08/25/21 11:10
ADMIN OFFICE	21082404-007	1082526-07	Vapor	08/23/21 17:37	08/25/21 11:10
E109 CLASSROOM	21082404-010	1082526-08	Vapor	08/23/21 17:32	08/25/21 11:10
B205 CLASSROOM	21082404-011	1082526-09	Vapor	08/23/21 18:20	08/25/21 11:10

Vapor

1082526-10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rabecka Koons, Quality Assurance Officer



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

CAFETERIA 2 21082404-001 1082526-01 (Vapor) Sample Date: 08/23/21

				Sample Date: 0					
	.	37.	TT 1:	Reporting	Detection	D.11 - 1	ъ .		
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-	15 (GC/MS) Pi	epared by	<u>y TO-15 P</u>						
Acetone	44.4		ug/m³	2.40	2.40	1	08/25/21	08/25/21 17:08	WB
Benzene	0.38	J	ug/m³	0.64	0.16	1	08/25/21	08/25/21 17:08	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/25/21	08/25/21 17:08	WB
Bromodichloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 17:08	WB
Bromoform	ND		ug/m³	2.10	0.53	1	08/25/21	08/25/21 17:08	WB
Bromomethane	ND		ug/m³	0.78	0.20	1	08/25/21	08/25/21 17:08	WB
1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/25/21	08/25/21 17:08	WB
Carbon disulfide	ND		ug/m³	1.56	1.56	1	08/25/21	08/25/21 17:08	WB
Carbon tetrachloride	0.38	J	ug/m^3	1.30	0.33	1	08/25/21	08/25/21 17:08	WB
Chlorobenzene	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 17:08	WB
Chloroethane	ND		ug/m^3	0.53	0.27	1	08/25/21	08/25/21 17:08	WB
Chloroform	ND		ug/m^3	0.97	0.24	1	08/25/21	08/25/21 17:08	WB
Chloromethane	1.14		ug/m³	0.41	0.10	1	08/25/21	08/25/21 17:08	WB
3-Chloropropene	ND		ug/m³	0.63	0.16	1	08/25/21	08/25/21 17:08	WB
Cyclohexane	ND		ug/m³	0.69	0.17	1	08/25/21	08/25/21 17:08	WB
Dibromochloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 17:08	WB
1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 17:08	WB
1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 17:08	WB
1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 17:08	WB
1,4-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 17:08	WB
Dichlorodifluoromethane	2.03		ug/m³	0.99	0.99	1	08/25/21	08/25/21 17:08	WB
1,1-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 17:08	WB
1,2-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 17:08	WB
1,1-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 17:08	WB
cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 17:08	WB
trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 17:08	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 17:08	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 17:08	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 17:08	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 17:08	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 17:08	WB
Ethylbenzene Ethylbenzene	ND ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 17:08	WB
4-Ethyltoluene	ND ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 17:08	WB
		J	-			1	08/25/21	08/25/21 17:08	WB
Freon 113	0.54	J	ug/m³	1.50	0.38	1	08/23/21	08/23/21 17:08	wв

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Rabecka Koons, Quality Assurance Officer



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

CAFETERIA 2 21082404-001 1082526-01 (Vapor) Sample Date: 08/23/21

				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (C	GC/MS) Pi	repared b	y TO-15 I	Prep (continued)	-	•		-	
Freon 114	ND		ug/m³	1.40	1.40	1	08/25/21	08/25/21 17:08	WB
n-Heptane	0.25	J	ug/m^3	0.82	0.21	1	08/25/21	08/25/21 17:08	WB
Hexachlorobutadiene	ND		ug/m^3	2.10	2.10	1	08/25/21	08/25/21 17:08	WB
Hexane	ND		ug/m^3	14.0	14.0	1	08/25/21	08/25/21 17:08	WB
2-Hexanone	0.16	J	ug/m^3	0.82	0.15	1	08/25/21	08/25/21 17:08	WB
Isopropylbenzene (Cumene)	ND		ug/m^3	1.10	0.40	1	08/25/21	08/25/21 17:08	WB
Methyl tert-butyl ether (MTBE)	ND		ug/m^3	0.72	0.21	1	08/25/21	08/25/21 17:08	WB
Methylene chloride	ND		ug/m^3	18.0	18.0	1	08/25/21	08/25/21 17:08	WB
Methyl ethyl ketone (2-Butanone)	1.59		ug/m^3	0.59	0.34	1	08/25/21	08/25/21 17:08	WB
Methyl isobutyl ketone	ND		ug/m^3	0.82	0.82	1	08/25/21	08/25/21 17:08	WB
Naphthalene	ND		ug/m^3	1.10	0.70	1	08/25/21	08/25/21 17:08	WB
Propene	ND		ug/m^3	0.34	0.34	1	08/25/21	08/25/21 17:08	WB
n-Propylbenzene	ND		ug/m^3	0.98	0.40	1	08/25/21	08/25/21 17:08	WB
Styrene	ND		ug/m³	0.85	0.15	1	08/25/21	08/25/21 17:08	WB
1,1,2,2-Tetrachloroethane	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 17:08	WB
Tetrachloroethene	ND		ug/m³	1.40	0.70	1	08/25/21	08/25/21 17:08	WB
Tetrahydrofuran	ND		ug/m³	0.59	0.15	1	08/25/21	08/25/21 17:08	WB
Toluene	1.02		ug/m³	0.75	0.35	1	08/25/21	08/25/21 17:08	WB
1,2,4-Trichlorobenzene	ND		ug/m³	1.50	0.38	1	08/25/21	08/25/21 17:08	WB
1,1,1-Trichloroethane	ND		ug/m³	1.10	0.28	1	08/25/21	08/25/21 17:08	WB
1,1,2-Trichloroethane	ND		ug/m³	1.10	0.28	1	08/25/21	08/25/21 17:08	WB
Trichloroethene	ND		ug/m³	1.10	0.28	1	08/25/21	08/25/21 17:08	WB
Trichlorofluoromethane (Freon 11)	1.18		ug/m³	1.10	0.28	1	08/25/21	08/25/21 17:08	WB
1,2,4-Trimethylbenzene	0.25	J	ug/m³	0.98	0.25	1	08/25/21	08/25/21 17:08	WB
1,3,5-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 17:08	WB
2,2,4-Trimethylpentane	0.33	J	ug/m^3	0.93	0.23	1	08/25/21	08/25/21 17:08	WB
Vinyl acetate	ND		ug/m^3	0.70	0.70	1	08/25/21	08/25/21 17:08	WB
Vinyl bromide	ND		ug/m^3	0.87	0.22	1	08/25/21	08/25/21 17:08	WB
Vinyl chloride	ND		ug/m^3	0.51	0.13	1	08/25/21	08/25/21 17:08	WB
o-Xylene	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 17:08	WB
m- & p-Xylenes	ND		ug/m³	1.70	0.43	1	08/25/21	08/25/21 17:08	WB
Surrogate: 4-Bromofluorobenzene		7.	3-115	105 %	08/25/21		08/25/21 17:08		

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Rabecka Koons, Quality Assurance Officer



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



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Reported: 09/01/21 17:13

CAFETERIA 1 21082404-002 1082526-02 (Vapor) Sample Date: 08/23/21

				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15	(GC/MS) Pr	epared by	y TO-15 F				-	<u> </u>	
Acetone	50.5		ug/m³	2.40	2.40	1	08/25/21	08/25/21 17:48	WB
Benzene	0.48	J	ug/m³	0.64	0.16	1	08/25/21	08/25/21 17:48	WB
Benzyl chloride	ND		ug/m^3	1.00	0.25	1	08/25/21	08/25/21 17:48	WB
Bromodichloromethane	ND		ug/m^3	1.30	0.33	1	08/25/21	08/25/21 17:48	WB
Bromoform	ND		ug/m^3	2.10	0.53	1	08/25/21	08/25/21 17:48	WB
Bromomethane	0.31	J	ug/m^3	0.78	0.20	1	08/25/21	08/25/21 17:48	WB
1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/25/21	08/25/21 17:48	WB
Carbon disulfide	ND		ug/m^3	1.56	1.56	1	08/25/21	08/25/21 17:48	WB
Carbon tetrachloride	0.38	J	ug/m^3	1.30	0.33	1	08/25/21	08/25/21 17:48	WB
Chlorobenzene	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 17:48	WB
Chloroethane	ND		ug/m³	0.53	0.27	1	08/25/21	08/25/21 17:48	WB
Chloroform	0.39	J	ug/m^3	0.97	0.24	1	08/25/21	08/25/21 17:48	WB
Chloromethane	6.05		ug/m³	0.41	0.10	1	08/25/21	08/25/21 17:48	WB
3-Chloropropene	ND		ug/m³	0.63	0.16	1	08/25/21	08/25/21 17:48	WB
Cyclohexane	ND		ug/m³	0.69	0.17	1	08/25/21	08/25/21 17:48	WB
Dibromochloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 17:48	WB
1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 17:48	WB
1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 17:48	WB
1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 17:48	WB
1,4-Dichlorobenzene	ND		ug/m^3	1.20	0.30	1	08/25/21	08/25/21 17:48	WB
Dichlorodifluoromethane	2.08		ug/m^3	0.99	0.99	1	08/25/21	08/25/21 17:48	WB
1,1-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 17:48	WB
1,2-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 17:48	WB
1,1-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 17:48	WB
cis-1,2-Dichloroethene	ND		ug/m^3	0.79	0.20	1	08/25/21	08/25/21 17:48	WB
trans-1,2-Dichloroethene	ND		ug/m^3	0.79	0.20	1	08/25/21	08/25/21 17:48	WB
1,2-Dichloropropane	ND		ug/m^3	0.92	0.23	1	08/25/21	08/25/21 17:48	WB
cis-1,3-Dichloropropene	ND		ug/m^3	0.91	0.23	1	08/25/21	08/25/21 17:48	WB
trans-1,3-Dichloropropene	ND		ug/m^3	0.91	0.23	1	08/25/21	08/25/21 17:48	WB
1,4-Dioxane	ND		ug/m^3	0.72	0.18	1	08/25/21	08/25/21 17:48	WB
Ethyl acetate	ND		ug/m^3	3.60	3.60	1	08/25/21	08/25/21 17:48	WB
Ethylbenzene	ND		ug/m^3	0.87	0.22	1	08/25/21	08/25/21 17:48	WB
4-Ethyltoluene	0.25	J	ug/m³	0.98	0.25	1	08/25/21	08/25/21 17:48	WB
Freon 113	0.46	J	ug/m³	1.50	0.38	1	08/25/21	08/25/21 17:48	WB

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Project Manager: Amber Confer

Project Number: [none]

Analytical Results

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Reported: 09/01/21 17:13

CAFETERIA 1 21082404-002 1082526-02 (Vapor) Sample Date: 08/23/21

Volatile Organics by EPA TO-15 (GC/MS) Prepared by TO-15 Prep (continued)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	08/25/21 08/25/21 08/25/21 08/25/21 08/25/21	Analyzed 08/25/21 17:48 08/25/21 17:48 08/25/21 17:48 08/25/21 17:48	Analyst WB WB WB
Notatile Organics by EPA TO-15 (GC/MS) Prepared by TO-15 Prep (continued)	1 1 1 1 1 1 1	08/25/21 08/25/21 08/25/21 08/25/21 08/25/21	08/25/21 17:48 08/25/21 17:48 08/25/21 17:48	WB WB
Preon 114	1 1 1 1 1 1	08/25/21 08/25/21 08/25/21 08/25/21	08/25/21 17:48 08/25/21 17:48	WB
No. No.	1 1 1 1 1 1	08/25/21 08/25/21 08/25/21 08/25/21	08/25/21 17:48 08/25/21 17:48	WB
Hexachlorobutadiene ND	1 1 1 1 1	08/25/21 08/25/21 08/25/21	08/25/21 17:48	
Hexane	1 1 1 1	08/25/21 08/25/21		
2-Hexanone 0.41 J ug/m³ 0.82 0.15 Isopropylbenzene (Cumene) ND ug/m³ 1.10 0.40 Methyl tert-butyl ether (MTBE) ND ug/m³ 0.72 0.21 Methylene chloride ND ug/m³ 18.0 18.0 Methyl ethyl ketone (2-Butanone) 2.42 ug/m³ 0.59 0.34 Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichloroet	1 1 1	08/25/21	00/25/21 17:10	WB
Isopropylbenzene (Cumene)	1 1 1		08/25/21 17:48	WB
Methyl tert-butyl ether (MTBE) ND ug/m³ 0.72 0.21 Methylene chloride ND ug/m³ 18.0 18.0 Methyl ethyl ketone (2-Butanone) 2.42 ug/m³ 0.59 0.34 Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 1.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.44 J ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.10 0.28 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluo	1 1	08/25/21	08/25/21 17:48	WB
Methylene chloride ND ug/m³ 18.0 18.0 Methyl ethyl ketone (2-Butanone) 2.42 ug/m³ 0.59 0.34 Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 1.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.44 J ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 Trichlor	1	08/25/21	08/25/21 17:48	WB
Methyl ethyl ketone (2-Butanone) 2.42 ug/m³ 0.59 0.34 Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 1.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4		08/25/21	08/25/21 17:48	WB
Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 1.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.44 J ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 0.98 0.25 1,3,5-Trim	1	08/25/21	08/25/21 17:48	WB
Naphthalene ND ug/m³ 1.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.44 J ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.44 J ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichloroethane ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,3,5-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylpentane 0.37 J ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.44 J ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.44 J ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylpentane ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.44 J ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylpentane ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
Tetrahydrofuran 0.44 J ug/m³ 0.59 0.15 Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
Toluene 1.02 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
Trichlorofluoromethane (Freon 11) 1.24 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
1,2,4-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
1,3,5-Trimethylbenzene ND ug/m^3 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m^3 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
2,2,4-Trimethylpentane 0.37 J ug/m ³ 0.93 0.23	1	08/25/21	08/25/21 17:48	WB
-,-,·,- - F	1	08/25/21	08/25/21 17:48	WB
	1	08/25/21	08/25/21 17:48	WB
Vinyl acetate ND ug/m³ 0.70 0.70	1	08/25/21	08/25/21 17:48	WB
Vinyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 17:48	WB
Vinyl chloride ND ug/m³ 0.51 0.13	1	08/25/21	08/25/21 17:48	WB
o-Xylene ND ug/m³ 0.87 0.22		08/25/21	08/25/21 17:48	WB
m- & p-Xylenes 0.56 J ug/m ³ 1.70 0.43	1	08/25/21	08/25/21 17:48	WB
Surrogate: 4-Bromofluorobenzene 73-115 103 % 08/25/21	1 1	08/25/21 17:48		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rabecka Koons, Quality Assurance Officer



Project Manager: Amber Confer

Project Number: [none]

Analytical Results

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Reported: 09/01/21 17:13

MAIN GYMNASIUM 21082404-003 1082526-03 (Vapor) Sample Date: 08/23/21

				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15	(GC/MS) Pi	repared by	y TO-15 P	rep					
Acetone	12.6		ug/m³	2.40	2.40	1	08/25/21	08/25/21 18:23	WB
Benzene	0.38	J	ug/m³	0.64	0.16	1	08/25/21	08/25/21 18:23	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/25/21	08/25/21 18:23	WB
Bromodichloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 18:23	WB
Bromoform	ND		ug/m³	2.10	0.53	1	08/25/21	08/25/21 18:23	WB
Bromomethane	ND		ug/m³	0.78	0.20	1	08/25/21	08/25/21 18:23	WB
1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/25/21	08/25/21 18:23	WB
Carbon disulfide	ND		ug/m^3	1.56	1.56	1	08/25/21	08/25/21 18:23	WB
Carbon tetrachloride	0.38	J	ug/m^3	1.30	0.33	1	08/25/21	08/25/21 18:23	WB
Chlorobenzene	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 18:23	WB
Chloroethane	ND		ug/m³	0.53	0.27	1	08/25/21	08/25/21 18:23	WB
Chloroform	0.39	J	ug/m³	0.97	0.24	1	08/25/21	08/25/21 18:23	WB
Chloromethane	1.07		ug/m³	0.41	0.10	1	08/25/21	08/25/21 18:23	WB
3-Chloropropene	ND		ug/m³	0.63	0.16	1	08/25/21	08/25/21 18:23	WB
Cyclohexane	ND		ug/m³	0.69	0.17	1	08/25/21	08/25/21 18:23	WB
Dibromochloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 18:23	WB
1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 18:23	WB
1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 18:23	WB
1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 18:23	WB
1,4-Dichlorobenzene	ND		ug/m^3	1.20	0.30	1	08/25/21	08/25/21 18:23	WB
Dichlorodifluoromethane	2.18		ug/m^3	0.99	0.99	1	08/25/21	08/25/21 18:23	WB
1,1-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 18:23	WB
1,2-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 18:23	WB
1,1-Dichloroethene	ND		ug/m^3	0.79	0.20	1	08/25/21	08/25/21 18:23	WB
cis-1,2-Dichloroethene	ND		ug/m^3	0.79	0.20	1	08/25/21	08/25/21 18:23	WB
trans-1,2-Dichloroethene	ND		ug/m^3	0.79	0.20	1	08/25/21	08/25/21 18:23	WB
1,2-Dichloropropane	ND		ug/m^3	0.92	0.23	1	08/25/21	08/25/21 18:23	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 18:23	WB
trans-1,3-Dichloropropene	ND		ug/m^3	0.91	0.23	1	08/25/21	08/25/21 18:23	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 18:23	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 18:23	WB
Ethylbenzene	0.26	J	ug/m³	0.87	0.22	1	08/25/21	08/25/21 18:23	WB
4-Ethyltoluene	ND		ug/m³	0.98	0.25	1	08/25/21	08/25/21 18:23	WB
Freon 113	0.54	J	ug/m^3	1.50	0.38	1	08/25/21	08/25/21 18:23	WB

Ratecka Korns

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Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

MAIN GYMNASIUM 21082404-003 1082526-03 (Vapor) Sample Date: 08/23/21

				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (C									
Freon 114	ND	тератец в	ug/m³	1.40	1.40	1	08/25/21	08/25/21 18:23	WB
n-Heptane	0.25	J	ug/m³	0.82	0.21	1	08/25/21	08/25/21 18:23	WB
Hexachlorobutadiene	ND		ug/m³	2.10	2.10	1	08/25/21	08/25/21 18:23	WB
Hexane	ND		ug/m³	14.0	14.0	1	08/25/21	08/25/21 18:23	WB
2-Hexanone	ND		ug/m³	0.82	0.15	1	08/25/21	08/25/21 18:23	WB
Isopropylbenzene (Cumene)	ND		ug/m³	1.10	0.40	1	08/25/21	08/25/21 18:23	WB
Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.72	0.21	1	08/25/21	08/25/21 18:23	WB
Methylene chloride	ND		ug/m³	18.0	18.0	1	08/25/21	08/25/21 18:23	WB
Methyl ethyl ketone (2-Butanone)	1.36		ug/m³	0.59	0.34	1	08/25/21	08/25/21 18:23	WB
Methyl isobutyl ketone	ND		ug/m³	0.82	0.82	1	08/25/21	08/25/21 18:23	WB
Naphthalene	ND		ug/m³	1.10	0.70	1	08/25/21	08/25/21 18:23	WB
Propene	ND		ug/m³	0.34	0.34	1	08/25/21	08/25/21 18:23	WB
n-Propylbenzene	ND		ug/m³	0.98	0.40	1	08/25/21	08/25/21 18:23	WB
Styrene	ND		ug/m³	0.85	0.15	1	08/25/21	08/25/21 18:23	WB
1,1,2,2-Tetrachloroethane	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 18:23	WB
Tetrachloroethene	ND		ug/m³	1.40	0.70	1	08/25/21	08/25/21 18:23	WB
Tetrahydrofuran	ND		ug/m³	0.59	0.15	1	08/25/21	08/25/21 18:23	WB
Toluene	0.75		ug/m³	0.75	0.35	1	08/25/21	08/25/21 18:23	WB
1,2,4-Trichlorobenzene	ND		ug/m^3	1.50	0.38	1	08/25/21	08/25/21 18:23	WB
1,1,1-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 18:23	WB
1,1,2-Trichloroethane	ND		ug/m³	1.10	0.28	1	08/25/21	08/25/21 18:23	WB
Trichloroethene	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 18:23	WB
Trichlorofluoromethane (Freon 11)	1.29		ug/m³	1.10	0.28	1	08/25/21	08/25/21 18:23	WB
1,2,4-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 18:23	WB
1,3,5-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 18:23	WB
2,2,4-Trimethylpentane	0.37	J	ug/m^3	0.93	0.23	1	08/25/21	08/25/21 18:23	WB
Vinyl acetate	ND		ug/m^3	0.70	0.70	1	08/25/21	08/25/21 18:23	WB
Vinyl bromide	ND		ug/m^3	0.87	0.22	1	08/25/21	08/25/21 18:23	WB
Vinyl chloride	ND		ug/m^3	0.51	0.13	1	08/25/21	08/25/21 18:23	WB
o-Xylene	0.30	J	ug/m^3	0.87	0.22	1	08/25/21	08/25/21 18:23	WB
m- & p-Xylenes	0.91	J	ug/m³	1.70	0.43	1	08/25/21	08/25/21 18:23	WB
Surrogate: 4-Bromofluorobenzene		7.	3-115	98 %	08/25/21	l	08/25/21 18:23		

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Project Manager: Amber Confer

Project Number: [none]

Analytical Results



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Reported: 09/01/21 17:13

C109 HALLWAY 21082404-004 1082526-04 (Vapor) Sample Date: 08/23/21

				Sample Date. 0	,, 20 , 21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (GC	C/MS) Pi	repared by	<u>y TO-15 P</u>	rep					
Acetone	26.0		ug/m³	2.40	2.40	1	08/25/21	08/25/21 18:57	WB
Benzene	0.48	J	ug/m³	0.64	0.16	1	08/25/21	08/25/21 18:57	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/25/21	08/25/21 18:57	WB
Bromodichloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 18:57	WB
Bromoform	ND		ug/m³	2.10	0.53	1	08/25/21	08/25/21 18:57	WB
Bromomethane	ND		ug/m³	0.78	0.20	1	08/25/21	08/25/21 18:57	WB
1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/25/21	08/25/21 18:57	WB
Carbon disulfide	ND		ug/m³	1.56	1.56	1	08/25/21	08/25/21 18:57	WB
Carbon tetrachloride	0.38	J	ug/m³	1.30	0.33	1	08/25/21	08/25/21 18:57	WB
Chlorobenzene	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 18:57	WB
Chloroethane	ND		ug/m³	0.53	0.27	1	08/25/21	08/25/21 18:57	WB
Chloroform	ND		ug/m³	0.97	0.24	1	08/25/21	08/25/21 18:57	WB
Chloromethane	1.16		ug/m³	0.41	0.10	1	08/25/21	08/25/21 18:57	WB
3-Chloropropene	ND		ug/m³	0.63	0.16	1	08/25/21	08/25/21 18:57	WB
Cyclohexane	0.21	J	ug/m³	0.69	0.17	1	08/25/21	08/25/21 18:57	WB
Dibromochloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 18:57	WB
1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 18:57	WB
1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 18:57	WB
1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 18:57	WB
1,4-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 18:57	WB
Dichlorodifluoromethane	2.18		ug/m³	0.99	0.99	1	08/25/21	08/25/21 18:57	WB
1,1-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 18:57	WB
1,2-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 18:57	WB
1,1-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 18:57	WB
cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 18:57	WB
trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 18:57	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 18:57	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 18:57	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 18:57	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 18:57	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 18:57	WB
Ethylbenzene	0.87	J	ug/m³	0.87	0.22	1	08/25/21	08/25/21 18:57	WB
4-Ethyltoluene	1.52		ug/m³	0.98	0.25	1	08/25/21	08/25/21 18:57	WB
Freon 113	0.61	J	ug/m³	1.50	0.38	1	08/25/21	08/25/21 18:57	WB

lakecka Koms

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

C109 HALLWAY 21082404-004 1082526-04 (Vapor)

Analyte Result Notes Units Limit (MRL) Limit (LOD) Dibu			
Volatile Organics by EPA TO-15 (GC/MS) Prepared by TO-15 Prep (continued)			
Freen 114 ND	tion Prepared	Analyzed	Analyst
Name			
Hexachlorobutadiene ND ug/m³ 2.10 2.10 14.0 14.0 14.0 14.0 14.0 14.0 14.0 1	08/25/21	08/25/21 18:57	WB
Hexane	08/25/21	08/25/21 18:57	WB
ND	08/25/21	08/25/21 18:57	WB
Suppropylbenzene (Cumene) ND	08/25/21	08/25/21 18:57	WB
Methyl terl-butyl ether (MTBE) ND ug/m² 0.72 0.21 Methylene chloride ND ug/m² 18.0 18.0 18.0 Methyl ethyl ketone (2-Butanone) 1.89 ug/m² 0.59 0.34 Methyl siobutyl ketone ND ug/m² 0.82 0.82 Methyl isobutyl ketone ND ug/m² 0.82 0.82 Maphthalene 2.31 ug/m² 1.10 0.70 Methylenee ND ug/m² 0.34 0.34 0.34 Methyl isobutyl ketone ND ug/m² 0.34 0.34 0.34 Methylenee ND ug/m² 0.35 0.15 Methylenee ND ug/m² 0.59 0.15 Methylenee ND ug/m² 0.59 0.15 Methylenee ND ug/m² 0.59 0.15 Methylenee ND ug/m² 0.50 0.38 Methylenee ND ug/m² 0.50 0.50 0.50 Methylenee ND ug/m² 0.50 0.50	08/25/21	08/25/21 18:57	WB
Methylene chloride ND Ug/m³ 18.0 18.0 Methyl ethyl ketone (2-Butanone) ND Ug/m³ 0.59 0.34 Methyl isobutyl ketone ND Ug/m³ 0.82 0.82 Naphthalene 2.31 Ug/m³ 1.10 0.70 Propene ND Ug/m³ 0.34 0.34 0.34 1.72-Propene 0.44 J Ug/m³ 0.85 0.15 I I,1,2,2-Tetrachloroethane ND Ug/m³ 0.85 0.15 I Ietrachloroethene ND Ug/m³ 1.40 0.70 I Ietrachloroethene ND Ug/m³ 0.59 0.15 I I I I I I I I I I I I I	08/25/21	08/25/21 18:57	WB
Methyl ethyl ketone (2-Butanone) 1.89 ug/m³ 0.59 0.34 1 Methyl isobutyl ketone ND ug/m³ 0.82 0.82 1 Naphthalene 2.31 ug/m³ 1.10 0.70 1 Propene ND ug/m³ 0.34 0.34 1 n-Propylbenzene 0.44 J ug/m³ 0.98 0.40 1 n-Propylbenzene 0.26 J ug/m³ 0.85 0.15 1 Styrene 0.26 J ug/m³ 0.85 0.15 1 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 1 1,1,2,2-Tetrachloroethane ND ug/m³ 0.59 0.15 1 1 cetrahydrofuran ND ug/m³ 0.75 0.35 1 1 cetrahydrofuran ND ug/m³ 0.75 0.35 1 1 cetrahydrofuran ND ug/m³ 0.75 0.35 1 1 cetrahydrofuran ND ug/m³ 1.5	08/25/21	08/25/21 18:57	WB
Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene 2.31 ug/m³ 1.10 0.70 1 Propene ND ug/m³ 0.34 0.34 1 n-Propylbenzene 0.44 J ug/m³ 0.98 0.40 1 Styrene 0.26 J ug/m³ 0.85 0.15 1 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 1 Tetrachloroethene ND ug/m³ 1.40 0.70 1 Tetrachloroethene ND ug/m³ 0.59 0.15 1 Toluene 2.34 ug/m³ 0.75 0.35 1 1,2,4-Trichloroethane ND ug/m³ 1.50 0.38 1 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 1 1,1,2-Trichloroethane ND ug/m³ 1.10 <td>08/25/21</td> <td>08/25/21 18:57</td> <td>WB</td>	08/25/21	08/25/21 18:57	WB
Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene 2.31 ug/m³ 1.10 0.70 1 Propene ND ug/m³ 0.34 0.34 0.34 n-Propylbenzene 0.44 J ug/m³ 0.98 0.40 1 Styrene 0.26 J ug/m³ 0.85 0.15 1 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 1 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.70 1 Tetrachloroethene ND ug/m³ 0.59 0.15 1 Totlane 2.34 ug/m³ 0.75 0.35 1 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 1 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 <td>08/25/21</td> <td>08/25/21 18:57</td> <td>WB</td>	08/25/21	08/25/21 18:57	WB
Propene ND ug/m³ 0.34 0.34 1 n-Propylbenzene 0.44 J ug/m³ 0.98 0.40 1 Styrene 0.26 J ug/m³ 0.85 0.15 1 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 1 Tetrachloroethene ND ug/m³ 0.59 0.15 1 Toluene 2.34 ug/m³ 0.75 0.35 1 1,2,4-Trichloroethane ND ug/m³ 1.50 0.38 1 1,1,1-Trichloroethane ND ug/m³ 1.50 0.38 1 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 1 1,3,5-Trimethylbenzene 1.62 ug/m³ 0.98 0.25 1 1,3,5-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1 1,3,5-Trimethylbenzene ND ug/m³ 0.99 0.23 1 1,3,5-Trimethylbenzene ND ug/m³ 0.99 0.25 1	08/25/21	08/25/21 18:57	WB
Description	08/25/21	08/25/21 18:57	WB
Styrene 0.26 J ug/m³ 0.85 0.15 1 I,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 1 Tetrachloroethene ND ug/m³ 1.40 0.70 1 Tetrahydrofuran ND ug/m³ 0.59 0.15 1 Toluene 2.34 ug/m³ 0.75 0.35 1 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 1 1,2,4-Trimethylbenzene 1.62 ug/m³ 0.98 0.25 1 1,2,4-Trimethylbenzene 0.34 J ug/m³	08/25/21	08/25/21 18:57	WB
1,1,2,2-Tetrachloroethane	08/25/21	08/25/21 18:57	WB
Getrachloroethene ND ug/m³ 1.40 0.70 1 Getrahydrofuran ND ug/m³ 0.59 0.15 1 Goluene 2.34 ug/m³ 0.75 0.35 1 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 1 Grichlorofluoromethane ND ug/m³ 1.10 0.28 1 Grichlorofluoromethane (Freon 11) 1.29 ug/m³ 1.10 0.28 1 1,2,4-Trimethylbenzene 1.62 ug/m³ 0.98 0.25 1 1,3,5-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1 2,2,4-Trimethylpentane ND ug/m³ 0.93 0.23 1 Vinyl acetate ND ug/m³ 0.70 0.70 0.70 Vinyl bromide ND	08/25/21	08/25/21 18:57	WB
Fetrahydrofuran ND ug/m³ 0.59 0.15 1 Foluene 2.34 ug/m³ 0.75 0.35 1 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1 1,1,2-Trichloroethane ND ug/m³ 0.98 0.25 1 1,2,4-Trimethylbenzene 1.62 ug/m³	08/25/21	08/25/21 18:57	WB
Column C	08/25/21	08/25/21 18:57	WB
1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1.1,1-Trichloroethane ND ug/m³ 1.10 0.28 1.1,1-Trichlorofluoromethane (Freon 11) 1.29 ug/m³ 1.10 0.28 1.1,1-Trimethylbenzene 1.62 ug/m³ 0.98 0.25 1.1,1-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1.1,1-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1.1,1-Trimethylpentane ND ug/m³ 0.93 0.23 1.10 0.70 0.70 1.10 0.70 0.70 1.10 0.70	08/25/21	08/25/21 18:57	WB
1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 1 1richloroethene ND ug/m³ 1.10 0.28 1 1richlorofluoromethane (Freon 11) 1.29 ug/m³ 1.10 0.28 1 1,2,4-Trimethylbenzene 1.62 ug/m³ 0.98 0.25 1 1,3,5-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1 2,2,4-Trimethylpentane ND ug/m³ 0.93 0.23 1 Vinyl acetate ND ug/m³ 0.70 0.70 1 Vinyl bromide ND ug/m³ 0.87 0.22 1 Vinyl chloride ND ug/m³ 0.51 0.13 1	08/25/21	08/25/21 18:57	WB
1,1,2-Trichloroethane	08/25/21	08/25/21 18:57	WB
Trichloroethene ND ug/m³ 1.10 0.28 1 Trichlorofluoromethane (Freon 11) 1.29 ug/m³ 1.10 0.28 1 1,2,4-Trimethylbenzene 1.62 ug/m³ 0.98 0.25 1 1,3,5-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1 2,2,4-Trimethylpentane ND ug/m³ 0.93 0.23 1 Vinyl acetate ND ug/m³ 0.70 0.70 1 Vinyl bromide ND ug/m³ 0.87 0.22 1 Vinyl chloride ND ug/m³ 0.51 0.13 1	08/25/21	08/25/21 18:57	WB
Trichlorofluoromethane (Freon 11) 1.29 ug/m³ 1.10 0.28 1 1,2,4-Trimethylbenzene 1.62 ug/m³ 0.98 0.25 1 1,3,5-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1 2,2,4-Trimethylpentane ND ug/m³ 0.93 0.23 1 Vinyl acetate ND ug/m³ 0.70 0.70 1 Vinyl bromide ND ug/m³ 0.87 0.22 1 Vinyl chloride ND ug/m³ 0.51 0.13 1	08/25/21	08/25/21 18:57	WB
1,2,4-Trimethylbenzene 1.62 ug/m³ 0.98 0.25 1 1,3,5-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1 2,2,4-Trimethylpentane ND ug/m³ 0.93 0.23 1 Vinyl acetate ND ug/m³ 0.70 0.70 1 Vinyl bromide ND ug/m³ 0.87 0.22 1 Vinyl chloride ND ug/m³ 0.51 0.13 1	08/25/21	08/25/21 18:57	WB
1,2,4-Trimethylbenzene 1.62 ug/m³ 0.98 0.25 1.1,3,5-Trimethylbenzene 0.34 J ug/m³ 0.98 0.25 1.1,3,5-Trimethylbenzene 0.25 1.1,3,5-Trimethylbenzene 0.98 0.25 1.1,3,5-Trimethylbenzene 0.98 0.25 1.1,3,5-Trimethylbenzene 0.93 0.23 1.1,3,5-Trimethylbenzene 0.93 0.23 1.1,3,5-Trimethylbenzene 0.93 0.23 1.1,3,5-Trimethylbenzene 0.98 0.25 1.1,3,5-Trimethylbenzene 0.93 0.23 1.1,3,5-Trimethylbenzene 0.70 0.70 0.70 0.70 0.70 <	08/25/21	08/25/21 18:57	WB
Vinyl acetate ND ug/m³ 0.93 0.23 1 Vinyl acetate ND ug/m³ 0.70 0.70 1 Vinyl bromide ND ug/m³ 0.87 0.22 1 Vinyl chloride ND ug/m³ 0.51 0.13 1	08/25/21	08/25/21 18:57	WB
Vinyl acetate ND ug/m³ 0.70 0.70 1 Vinyl bromide ND ug/m³ 0.87 0.22 1 Vinyl chloride ND ug/m³ 0.51 0.13 1	08/25/21	08/25/21 18:57	WB
Vinyl bromide ND ug/m^3 0.87 0.22 1 Vinyl chloride ND ug/m^3 0.51 0.13	08/25/21	08/25/21 18:57	WB
Vinyl chloride ND ug/m³ 0.51 0.13	08/25/21	08/25/21 18:57	WB
	08/25/21	08/25/21 18:57	WB
1.22 ug/m³ 0.87 0.22	08/25/21	08/25/21 18:57	WB
	08/25/21	08/25/21 18:57	WB
m- & p-Xylenes 2.56 ug/m³ 1.70 0.43	08/25/21	08/25/21 18:57	WB
Surrogate: 4-Bromofluorobenzene 73-115 100 % 08/25/21	08/25/21 18:5	7	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

C127 CLASSROOM 21082404-005 1082526-05 (Vapor) Sample Date: 08/23/21

				Sample Date: 0	0/23/21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-1	15 (GC/MS) Pi	repared b	y TO-15 P	Prep					
Acetone	24.9		ug/m³	2.40	2.40	1	08/25/21	08/25/21 19:31	WB
Benzene	0.38	J	ug/m^3	0.64	0.16	1	08/25/21	08/25/21 19:31	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/25/21	08/25/21 19:31	WB
Bromodichloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 19:31	WB
Bromoform	ND		ug/m³	2.10	0.53	1	08/25/21	08/25/21 19:31	WB
Bromomethane	ND		ug/m^3	0.78	0.20	1	08/25/21	08/25/21 19:31	WB
1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/25/21	08/25/21 19:31	WB
Carbon disulfide	ND		ug/m³	1.56	1.56	1	08/25/21	08/25/21 19:31	WB
Carbon tetrachloride	0.38	J	ug/m³	1.30	0.33	1	08/25/21	08/25/21 19:31	WB
Chlorobenzene	ND		ug/m^3	0.92	0.23	1	08/25/21	08/25/21 19:31	WB
Chloroethane	ND		ug/m³	0.53	0.27	1	08/25/21	08/25/21 19:31	WB
Chloroform	ND		ug/m³	0.97	0.24	1	08/25/21	08/25/21 19:31	WB
Chloromethane	1.09		ug/m³	0.41	0.10	1	08/25/21	08/25/21 19:31	WB
3-Chloropropene	ND		ug/m^3	0.63	0.16	1	08/25/21	08/25/21 19:31	WB
Cyclohexane	ND		ug/m³	0.69	0.17	1	08/25/21	08/25/21 19:31	WB
Dibromochloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 19:31	WB
1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 19:31	WB
1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 19:31	WB
1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 19:31	WB
1,4-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 19:31	WB
Dichlorodifluoromethane	2.18		ug/m³	0.99	0.99	1	08/25/21	08/25/21 19:31	WB
1,1-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 19:31	WB
1,2-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 19:31	WB
1,1-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 19:31	WB
cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 19:31	WB
trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 19:31	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 19:31	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 19:31	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 19:31	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 19:31	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 19:31	WB
Ethylbenzene	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 19:31	WB
4-Ethyltoluene	ND		ug/m³	0.98	0.25	1	08/25/21	08/25/21 19:31	WB
Freon 113	0.54	J	ug/m³	1.50	0.38	1	08/25/21	08/25/21 19:31	WB

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rabecka Koons, Quality Assurance Officer



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

C127 CLASSROOM 21082404-005 1082526-05 (Vapor) Sample Date: 08/23/21

				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (C	GC/MS) Pi	repared b	y TO-15 F	Prep (continued)					
Freon 114	ND		ug/m³	1.40	1.40	1	08/25/21	08/25/21 19:31	WB
n-Heptane	0.29	J	ug/m^3	0.82	0.21	1	08/25/21	08/25/21 19:31	WB
Hexachlorobutadiene	ND		ug/m^3	2.10	2.10	1	08/25/21	08/25/21 19:31	WB
Hexane	ND		ug/m^3	14.0	14.0	1	08/25/21	08/25/21 19:31	WB
2-Hexanone	ND		ug/m^3	0.82	0.15	1	08/25/21	08/25/21 19:31	WB
Isopropylbenzene (Cumene)	ND		ug/m^3	1.10	0.40	1	08/25/21	08/25/21 19:31	WB
Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.72	0.21	1	08/25/21	08/25/21 19:31	WB
Methylene chloride	ND		ug/m³	18.0	18.0	1	08/25/21	08/25/21 19:31	WB
Methyl ethyl ketone (2-Butanone)	1.83		ug/m³	0.59	0.34	1	08/25/21	08/25/21 19:31	WB
Methyl isobutyl ketone	ND		ug/m^3	0.82	0.82	1	08/25/21	08/25/21 19:31	WB
Naphthalene	4.04		ug/m^3	1.10	0.70	1	08/25/21	08/25/21 19:31	WB
Propene	ND		ug/m^3	0.34	0.34	1	08/25/21	08/25/21 19:31	WB
n-Propylbenzene	ND		ug/m^3	0.98	0.40	1	08/25/21	08/25/21 19:31	WB
Styrene	0.21	J	ug/m^3	0.85	0.15	1	08/25/21	08/25/21 19:31	WB
1,1,2,2-Tetrachloroethane	ND		ug/m^3	1.40	0.35	1	08/25/21	08/25/21 19:31	WB
Tetrachloroethene	ND		ug/m^3	1.40	0.70	1	08/25/21	08/25/21 19:31	WB
Tetrahydrofuran	0.21	J	ug/m^3	0.59	0.15	1	08/25/21	08/25/21 19:31	WB
Гoluene	0.90		ug/m^3	0.75	0.35	1	08/25/21	08/25/21 19:31	WB
1,2,4-Trichlorobenzene	ND		ug/m³	1.50	0.38	1	08/25/21	08/25/21 19:31	WB
1,1,1-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 19:31	WB
1,1,2-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 19:31	WB
Trichloroethene	ND		ug/m³	1.10	0.28	1	08/25/21	08/25/21 19:31	WB
Trichlorofluoromethane (Freon 11)	1.29		ug/m³	1.10	0.28	1	08/25/21	08/25/21 19:31	WB
1,2,4-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 19:31	WB
1,3,5-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 19:31	WB
2,2,4-Trimethylpentane	0.37	J	ug/m^3	0.93	0.23	1	08/25/21	08/25/21 19:31	WB
Vinyl acetate	ND		ug/m^3	0.70	0.70	1	08/25/21	08/25/21 19:31	WB
Vinyl bromide	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 19:31	WB
Vinyl chloride	ND		ug/m^3	0.51	0.13	1	08/25/21	08/25/21 19:31	WB
o-Xylene	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 19:31	WB
m- & p-Xylenes	0.56	J	ug/m³	1.70	0.43	1	08/25/21	08/25/21 19:31	WB
Surrogate: 4-Bromofluorobenzene		7.	3-115	99 %	08/25/21		08/25/21 19:31		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rabecka Koons, Quality Assurance Officer



Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

Project Number: [none]
Project Manager: Amber Confer

Project: ACPS

AUDITORIUM 21082404-006 1082526-06 (Vapor) Sample Date: 08/23/21

				Sample Date: 00					
1	D 1	37.	***	Reporting	Detection	D'' -:	ъ .		
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (GC		repared by							
Acetone	21.0		ug/m³	2.40	2.40	1	08/25/21	08/25/21 20:06	WB
Benzene	0.35	J	ug/m³	0.64	0.16	1	08/25/21	08/25/21 20:06	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/25/21	08/25/21 20:06	WB
Bromodichloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 20:06	WB
Bromoform	ND		ug/m³	2.10	0.53	1	08/25/21	08/25/21 20:06	WB
Bromomethane	ND		ug/m³	0.78	0.20	1	08/25/21	08/25/21 20:06	WB
1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/25/21	08/25/21 20:06	WB
Carbon disulfide	ND		ug/m³	1.56	1.56	1	08/25/21	08/25/21 20:06	WB
Carbon tetrachloride	0.38	J	ug/m³	1.30	0.33	1	08/25/21	08/25/21 20:06	WB
Chlorobenzene	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 20:06	WB
Chloroethane	ND		ug/m³	0.53	0.27	1	08/25/21	08/25/21 20:06	WB
Chloroform	ND		ug/m³	0.97	0.24	1	08/25/21	08/25/21 20:06	WB
Chloromethane	1.07		ug/m³	0.41	0.10	1	08/25/21	08/25/21 20:06	WB
3-Chloropropene	ND		ug/m³	0.63	0.16	1	08/25/21	08/25/21 20:06	WB
Cyclohexane	ND		ug/m³	0.69	0.17	1	08/25/21	08/25/21 20:06	WB
Dibromochloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 20:06	WB
1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 20:06	WB
1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 20:06	WB
1,3-Dichlorobenzene	ND		ug/m^3	1.20	0.30	1	08/25/21	08/25/21 20:06	WB
1,4-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 20:06	WB
Dichlorodifluoromethane	2.08		ug/m³	0.99	0.99	1	08/25/21	08/25/21 20:06	WB
1,1-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 20:06	WB
1,2-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/25/21	08/25/21 20:06	WB
1,1-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 20:06	WB
cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 20:06	WB
trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 20:06	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 20:06	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 20:06	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 20:06	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 20:06	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 20:06	WB
Ethylbenzene	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 20:06	WB
4-Ethyltoluene	ND		ug/m³	0.98	0.25	1	08/25/21	08/25/21 20:06	WB
Freon 113	0.54	J	ug/m³	1.50	0.38	1	08/25/21	08/25/21 20:06	WB

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



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Reported: 09/01/21 17:13

AUDITORIUM 21082404-006 1082526-06 (Vapor)

Volatile Organics by EPA TO-15 (GC/MS) Prepared by TO-15 Prep (continued)				
Volatile Organics by EPA TO-15 (GC/MS) Prepared by TO-15 Prep (continued)				
Freon 114 ND ug/m³ 1.40 1.40 n-Heptane ND ug/m³ 0.82 0.21 Hexachlorobutadiene ND ug/m³ 2.10 2.10 Hexane ND ug/m³ 14.0 14.0 2-Hexanore 0.37 J ug/m³ 0.82 0.15 Isopropylbenzene (Cumene) ND ug/m³ 0.72 0.21 Methyl tert-butyl ether (MTBE) ND ug/m³ 0.72 0.21 Methylene chloride ND ug/m³ 0.72 0.21 Methyle thyl ketone (2-Butanone) 1.83 ug/m³ 0.59 0.34 Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 0.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 Tetrachloroethane ND	Dilution	Prepared	Analyzed	Analyst
ND				
Hexachlorobutadiene	1	08/25/21	08/25/21 20:06	WB
Hexane	1	08/25/21	08/25/21 20:06	WB
Description	1	08/25/21	08/25/21 20:06	WB
March Marc	1	08/25/21	08/25/21 20:06	WB
Methyl tert-butyl ether (MTBE) ND ug/m³ 0.72 0.21 Methylene chloride ND ug/m³ 18.0 18.0 Methyl ethyl ketone (2-Butanone) 1.83 ug/m³ 0.59 0.34 Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 0.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 0.59 0.15 Toluene 0.83 ug/m³ 0.59 0.15 Toluene 0.83 ug/m³ 0.59 0.15 Toluene 0.83 ug/m³ 0.75 0.35 Toluene 0.83 ug/m³	1	08/25/21	08/25/21 20:06	WB
Methylene chloride ND ug/m² 18.0 18.0 Methyl ethyl ketone (2-Butanone) 1.83 ug/m² 0.59 0.34 Methyl isobutyl ketone ND ug/m² 0.82 0.82 Naphthalene ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 1.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Itetrahydrofuran 0.38 J ug/m³ 0.59 0.15 Ioluene 0.83 ug/m³ 0.75 0.35 1,2,4-Trichloroethane ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11	1	08/25/21	08/25/21 20:06	WB
Methyl ethyl ketone (2-Butanone) 1.83 ug/m³ 0.59 0.34 Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 1.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.38 J ug/m³ 0.59 0.15 Toluene 0.83 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.12 ug/m³ 0.98 0.25 1,3,5-Trime	1	08/25/21	08/25/21 20:06	WB
Methyl isobutyl ketone ND ug/m³ 0.82 0.82 Naphthalene ND ug/m³ 1.10 0.70 Propene ND ug/m³ 0.34 0.34 n-Propylbenzene ND ug/m³ 0.98 0.40 Styrene ND ug/m³ 0.85 0.15 1,1,2,2-Tetrachloroethane ND ug/m³ 1.40 0.35 Tetrachloroethene ND ug/m³ 1.40 0.70 Tetrahydrofuran 0.38 J ug/m³ 0.59 0.15 Toluene 0.83 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.12 ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.12 ug/m³ 0.98 0.25 1,3,5-Trim	1	08/25/21	08/25/21 20:06	WB
Naphthalene	1	08/25/21	08/25/21 20:06	WB
ND	1	08/25/21	08/25/21 20:06	WB
ND	1	08/25/21	08/25/21 20:06	WB
ND	1	08/25/21	08/25/21 20:06	WB
1,1,2,2-Tetrachloroethane	1	08/25/21	08/25/21 20:06	WB
Fetrachloroethene ND ug/m³ 1.40 0.70 Fetrahydrofuran 0.38 J ug/m³ 0.59 0.15 Foluene 0.83 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethene ND ug/m³ 1.10 0.28 Frichlorofluoromethane (Freon 11) 1.12 ug/m³ 1.10 0.28 I,2,4-Trimethylbenzene ND ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23 Vinyl acetate ND ug/m³ 0.70 0.70 Vinyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
Tetrahydrofuran 0.38	1	08/25/21	08/25/21 20:06	WB
Foluene 0.83 ug/m³ 0.75 0.35 1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 Trichloroethane ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.12 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene ND ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23 Vinyl acetate ND ug/m³ 0.70 0.70 Vinyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
1,2,4-Trichlorobenzene ND ug/m³ 1.50 0.38 1,1,1-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 1,1,2-Trichloroethane ND ug/m³ 1.10 0.28 1,2,4-Trimethyloenzene ND ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene ND ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.98 0.25 2,2,4-Trimethylpentane ND ug/m³ 0.93 0.23 Vinyl acetate ND ug/m³ 0.70 0.70 Vinyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
1,1,1-Trichloroethane	1	08/25/21	08/25/21 20:06	WB
1,1,2-Trichloroethane	1	08/25/21	08/25/21 20:06	WB
Trichloroethene ND ug/m³ 1.10 0.28 Trichlorofluoromethane (Freon 11) 1.12 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene ND ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23 Vinyl acetate ND ug/m³ 0.70 0.70 Vinyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
Trichlorofluoromethane (Freon 11) 1.12 ug/m³ 1.10 0.28 1,2,4-Trimethylbenzene ND ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23 Vinyl acetate ND ug/m³ 0.70 0.70 Vinyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
1,2,4-Trimethylbenzene ND ug/m³ 0.98 0.25 1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23 Vinyl acetate ND ug/m³ 0.70 0.70 Vinyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
1,3,5-Trimethylbenzene ND ug/m³ 0.98 0.25 2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23 Vinyl acetate ND ug/m³ 0.70 0.70 Vinyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
2,2,4-Trimethylpentane 0.37 J ug/m³ 0.93 0.23 Vinyl acetate ND ug/m³ 0.70 0.70 Vinyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
Vinyl acetate ND ug/m^3 0.70 0.70 Vinyl bromide ND ug/m^3 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
/inyl bromide ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
	1	08/25/21	08/25/21 20:06	WB
77. 1.11.11	1	08/25/21	08/25/21 20:06	WB
Vinyl chloride ND ug/m^3 0.51 0.13	1	08/25/21	08/25/21 20:06	WB
p-Xylene ND ug/m³ 0.87 0.22	1	08/25/21	08/25/21 20:06	WB
m- & p-Xylenes 0.43 J ug/m³ 1.70 0.43	1	08/25/21	08/25/21 20:06	WB
Surrogate: 4-Bromofluorobenzene 73-115 99 % 08/25/21		08/25/21 20:06		

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Project Manager: Amber Confer

Project Number: [none]

Analytical Results

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Reported: 09/01/21 17:13

ADMIN OFFICE 21082404-007 1082526-07 (Vapor) Sample Date: 08/23/21

				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (GO	C/MS) Pi	repared by	y TO-15 P	rep					
Acetone	31.4		ug/m³	2.40	2.40	1	08/25/21	08/25/21 20:44	WB
Benzene	0.38	J	ug/m^3	0.64	0.16	1	08/25/21	08/25/21 20:44	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/25/21	08/25/21 20:44	WB
Bromodichloromethane	ND		ug/m^3	1.30	0.33	1	08/25/21	08/25/21 20:44	WB
Bromoform	ND		ug/m^3	2.10	0.53	1	08/25/21	08/25/21 20:44	WB
Bromomethane	ND		ug/m³	0.78	0.20	1	08/25/21	08/25/21 20:44	WB
1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/25/21	08/25/21 20:44	WB
Carbon disulfide	ND		ug/m³	1.56	1.56	1	08/25/21	08/25/21 20:44	WB
Carbon tetrachloride	0.38	J	ug/m³	1.30	0.33	1	08/25/21	08/25/21 20:44	WB
Chlorobenzene	ND		ug/m^3	0.92	0.23	1	08/25/21	08/25/21 20:44	WB
Chloroethane	ND		ug/m³	0.53	0.27	1	08/25/21	08/25/21 20:44	WB
Chloroform	ND		ug/m³	0.97	0.24	1	08/25/21	08/25/21 20:44	WB
Chloromethane	1.07		ug/m³	0.41	0.10	1	08/25/21	08/25/21 20:44	WB
3-Chloropropene	ND		ug/m^3	0.63	0.16	1	08/25/21	08/25/21 20:44	WB
Cyclohexane	0.21	J	ug/m³	0.69	0.17	1	08/25/21	08/25/21 20:44	WB
Dibromochloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 20:44	WB
1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 20:44	WB
1,2-Dichlorobenzene	ND		ug/m^3	1.20	0.30	1	08/25/21	08/25/21 20:44	WB
1,3-Dichlorobenzene	ND		ug/m^3	1.20	0.30	1	08/25/21	08/25/21 20:44	WB
1,4-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 20:44	WB
Dichlorodifluoromethane	2.13		ug/m³	0.99	0.99	1	08/25/21	08/25/21 20:44	WB
1,1-Dichloroethane	ND		ug/m^3	0.81	0.20	1	08/25/21	08/25/21 20:44	WB
1,2-Dichloroethane	ND		ug/m^3	0.81	0.20	1	08/25/21	08/25/21 20:44	WB
1,1-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 20:44	WB
cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 20:44	WB
trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 20:44	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 20:44	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 20:44	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 20:44	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 20:44	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 20:44	WB
Ethylbenzene	0.43	J	ug/m³	0.87	0.22	1	08/25/21	08/25/21 20:44	WB
4-Ethyltoluene	ND		ug/m³	0.98	0.25	1	08/25/21	08/25/21 20:44	WB

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Project Manager: Amber Confer

Project Number: [none]

Analytical Results



Analyst

WB

WB

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> Reported: 09/01/21 17:13

Analyzed

ADMIN OFFICE 21082404-007

1082526-07 (Vapor) Sample Date: 08/23/21 Reporting Detection Limit (MRL) Limit (LOD) Analyte Result Notes Units Dilution Prepared Volatile Organics by EPA TO-15 (GC/MS) Prepared by TO-15 Prep (continued) 1.40 08/25/21 08/25/21 20:44 Freon 114 ND ug/m³ 1.40 0.37 n-Heptane ug/m³ 0.82 0.21 08/25/21 08/25/21 20:44

T			_						
Hexachlorobutadiene	ND		ug/m^3	2.10	2.10	1	08/25/21	08/25/21 20:44	WB
Hexane	ND		ug/m^3	14.0	14.0	1	08/25/21	08/25/21 20:44	WB
2-Hexanone	0.45	J	ug/m³	0.82	0.15	1	08/25/21	08/25/21 20:44	WB
Isopropylbenzene (Cumene)	ND		ug/m^3	1.10	0.40	1	08/25/21	08/25/21 20:44	WB
Methyl tert-butyl ether (MTBE)	ND		ug/m^3	0.72	0.21	1	08/25/21	08/25/21 20:44	WB
Methylene chloride	ND		ug/m³	18.0	18.0	1	08/25/21	08/25/21 20:44	WB
Methyl ethyl ketone (2-Butanone)	2.42		ug/m³	0.59	0.34	1	08/25/21	08/25/21 20:44	WB
Methyl isobutyl ketone	ND		ug/m^3	0.82	0.82	1	08/25/21	08/25/21 20:44	WB
Naphthalene	0.89	J	ug/m^3	1.10	0.70	1	08/25/21	08/25/21 20:44	WB
Propene	ND		ug/m^3	0.34	0.34	1	08/25/21	08/25/21 20:44	WB
n-Propylbenzene	ND		ug/m^3	0.98	0.40	1	08/25/21	08/25/21 20:44	WB
Styrene	0.64	J	ug/m³	0.85	0.15	1	08/25/21	08/25/21 20:44	WB
1,1,2,2-Tetrachloroethane	ND		ug/m^3	1.40	0.35	1	08/25/21	08/25/21 20:44	WB
Tetrachloroethene	ND		ug/m^3	1.40	0.70	1	08/25/21	08/25/21 20:44	WB
Tetrahydrofuran	0.44	J	ug/m³	0.59	0.15	1	08/25/21	08/25/21 20:44	WB
Toluene	1.88		ug/m^3	0.75	0.35	1	08/25/21	08/25/21 20:44	WB
1,2,4-Trichlorobenzene	ND		ug/m³	1.50	0.38	1	08/25/21	08/25/21 20:44	WB
1,1,1-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 20:44	WB
1,1,2-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 20:44	WB
Trichloroethene	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 20:44	WB
Trichlorofluoromethane (Freon 11)	1.24		ug/m³	1.10	0.28	1	08/25/21	08/25/21 20:44	WB
1,2,4-Trimethylbenzene	0.25	J	ug/m^3	0.98	0.25	1	08/25/21	08/25/21 20:44	WB
1,3,5-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 20:44	WB
2,2,4-Trimethylpentane	ND		ug/m^3	0.93	0.23	1	08/25/21	08/25/21 20:44	WB
Vinyl acetate	ND		ug/m^3	0.70	0.70	1	08/25/21	08/25/21 20:44	WB
Vinyl bromide	ND		ug/m^3	0.87	0.22	1	08/25/21	08/25/21 20:44	WB
Vinyl chloride	ND		ug/m³	0.51	0.13	1	08/25/21	08/25/21 20:44	WB
o-Xylene	0.30	J	ug/m³	0.87	0.22	1	08/25/21	08/25/21 20:44	WB

ug/m³ Surrogate: 4-Bromofluorobenzene 73-115 100 % 08/25/21 08/25/21 20:44

0.87

m- & p-Xylenes

 ${\it The results in this report apply to the samples analyzed in accordance with the chain of}$ custody document. This analytical report must be reproduced in its entirety.

08/25/21

Rabecka Koons, Quality Assurance Officer

WB

1.70

0.43

08/25/21 20:44



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

E109 CLASSROOM 21082404-010 1082526-08 (Vapor)

Sample Date: 08/23/21

				Sample Date. 0					
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-	15 (GC/MS) Pi	repared by	y TO-15 I						
Acetone	19.2		ug/m³	2.40	2.40	1	08/25/21	08/25/21 21:18	WB
Benzene	0.35	J	ug/m³	0.64	0.16	1	08/25/21	08/25/21 21:18	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/25/21	08/25/21 21:18	WB
Bromodichloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 21:18	WB
Bromoform	ND		ug/m³	2.10	0.53	1	08/25/21	08/25/21 21:18	WB
Bromomethane	ND		ug/m³	0.78	0.20	1	08/25/21	08/25/21 21:18	WB
1,3-Butadiene	ND		ug/m^3	0.44	0.44	1	08/25/21	08/25/21 21:18	WB
Carbon disulfide	ND		ug/m^3	1.56	1.56	1	08/25/21	08/25/21 21:18	WB
Carbon tetrachloride	0.38	J	ug/m^3	1.30	0.33	1	08/25/21	08/25/21 21:18	WB
Chlorobenzene	ND		ug/m^3	0.92	0.23	1	08/25/21	08/25/21 21:18	WB
Chloroethane	ND		ug/m^3	0.53	0.27	1	08/25/21	08/25/21 21:18	WB
Chloroform	ND		ug/m^3	0.97	0.24	1	08/25/21	08/25/21 21:18	WB
Chloromethane	1.14		ug/m^3	0.41	0.10	1	08/25/21	08/25/21 21:18	WB
3-Chloropropene	ND		ug/m^3	0.63	0.16	1	08/25/21	08/25/21 21:18	WB
Cyclohexane	ND		ug/m^3	0.69	0.17	1	08/25/21	08/25/21 21:18	WB
Dibromochloromethane	ND		ug/m^3	1.30	0.33	1	08/25/21	08/25/21 21:18	WB
1,2-Dibromoethane (EDB)	ND		ug/m^3	1.40	0.35	1	08/25/21	08/25/21 21:18	WB
1,2-Dichlorobenzene	ND		ug/m^3	1.20	0.30	1	08/25/21	08/25/21 21:18	WB
1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 21:18	WB
1,4-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 21:18	WB
Dichlorodifluoromethane	2.13		ug/m³	0.99	0.99	1	08/25/21	08/25/21 21:18	WB
1,1-Dichloroethane	ND		ug/m^3	0.81	0.20	1	08/25/21	08/25/21 21:18	WB
1,2-Dichloroethane	ND		ug/m^3	0.81	0.20	1	08/25/21	08/25/21 21:18	WB
1,1-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 21:18	WB
cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 21:18	WB
trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 21:18	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 21:18	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 21:18	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 21:18	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 21:18	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 21:18	WB
Ethylbenzene	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 21:18	WB
4-Ethyltoluene	ND		ug/m³	0.98	0.25	1	08/25/21	08/25/21 21:18	WB
Freon 113	0.54	J	ug/m³	1.50	0.38	1	08/25/21	08/25/21 21:18	WB
11COH 113	0.34	,	45/111	1.50	0.36		00/20/21	55,25,21 21.16	11.15

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rabecka Koons, Quality Assurance Officer



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G **Baltimore MD 21227** 410-247-7600 www.mdspectral.com

> Reported: 09/01/21 17:13

E109 CLASSROOM 21082404-010 1082526-08 (Vapor) Sample Date: 08/23/21

				Sample Date: 0	0/23/21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (C	GC/MS) Pi	repared b	y TO-15 I	Prep (continued)					
Freon 114	ND		ug/m³	1.40	1.40	1	08/25/21	08/25/21 21:18	WB
n-Heptane	0.41	J	ug/m³	0.82	0.21	1	08/25/21	08/25/21 21:18	WB
Hexachlorobutadiene	ND		ug/m³	2.10	2.10	1	08/25/21	08/25/21 21:18	WB
Hexane	ND		ug/m^3	14.0	14.0	1	08/25/21	08/25/21 21:18	WB
2-Hexanone	0.29	J	ug/m³	0.82	0.15	1	08/25/21	08/25/21 21:18	WB
Isopropylbenzene (Cumene)	ND		ug/m^3	1.10	0.40	1	08/25/21	08/25/21 21:18	WB
Methyl tert-butyl ether (MTBE)	ND		ug/m^3	0.72	0.21	1	08/25/21	08/25/21 21:18	WB
Methylene chloride	ND		ug/m^3	18.0	18.0	1	08/25/21	08/25/21 21:18	WB
Methyl ethyl ketone (2-Butanone)	1.80		ug/m^3	0.59	0.34	1	08/25/21	08/25/21 21:18	WB
Methyl isobutyl ketone	ND		ug/m^3	0.82	0.82	1	08/25/21	08/25/21 21:18	WB
Naphthalene	ND		ug/m^3	1.10	0.70	1	08/25/21	08/25/21 21:18	WB
Propene	ND		ug/m^3	0.34	0.34	1	08/25/21	08/25/21 21:18	WB
n-Propylbenzene	ND		ug/m³	0.98	0.40	1	08/25/21	08/25/21 21:18	WB
Styrene	0.38	J	ug/m³	0.85	0.15	1	08/25/21	08/25/21 21:18	WB
1,1,2,2-Tetrachloroethane	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 21:18	WB
Tetrachloroethene	ND		ug/m^3	1.40	0.70	1	08/25/21	08/25/21 21:18	WB
Tetrahydrofuran	0.44	J	ug/m³	0.59	0.15	1	08/25/21	08/25/21 21:18	WB
Toluene	1.66		ug/m^3	0.75	0.35	1	08/25/21	08/25/21 21:18	WB
1,2,4-Trichlorobenzene	ND		ug/m^3	1.50	0.38	1	08/25/21	08/25/21 21:18	WB
1,1,1-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 21:18	WB
1,1,2-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 21:18	WB
Trichloroethene	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 21:18	WB
Trichlorofluoromethane (Freon 11)	1.18		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 21:18	WB
1,2,4-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 21:18	WB
1,3,5-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 21:18	WB
2,2,4-Trimethylpentane	0.37	J	ug/m^3	0.93	0.23	1	08/25/21	08/25/21 21:18	WB
Vinyl acetate	ND		ug/m^3	0.70	0.70	1	08/25/21	08/25/21 21:18	WB
Vinyl bromide	ND		ug/m^3	0.87	0.22	1	08/25/21	08/25/21 21:18	WB
Vinyl chloride	ND		ug/m^3	0.51	0.13	1	08/25/21	08/25/21 21:18	WB
o-Xylene	0.30	J	ug/m^3	0.87	0.22	1	08/25/21	08/25/21 21:18	WB
m- & p-Xylenes	0.74	J	ug/m³	1.70	0.43	1	08/25/21	08/25/21 21:18	WB
Surrogate: 4-Bromofluorobenzene		7.	3-115	99 %	08/25/21	I	08/25/21 21:18		

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Rabecka Koons, Quality Assurance Officer

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Page 18 of 25



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

B205 CLASSROOM 21082404-011 1082526-09 (Vapor) Sample Date: 08/23/21

				Sample Date: 0	5/23/21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-1	15 (GC/MS) P	repared b	y TO-15 P	rep					
Acetone	25.8		ug/m^3	2.40	2.40	1	08/25/21	08/25/21 21:53	WB
Benzene	0.35	J	ug/m^3	0.64	0.16	1	08/25/21	08/25/21 21:53	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/25/21	08/25/21 21:53	WB
Bromodichloromethane	ND		ug/m^3	1.30	0.33	1	08/25/21	08/25/21 21:53	WB
Bromoform	ND		ug/m^3	2.10	0.53	1	08/25/21	08/25/21 21:53	WB
Bromomethane	ND		ug/m³	0.78	0.20	1	08/25/21	08/25/21 21:53	WB
1,3-Butadiene	ND		ug/m^3	0.44	0.44	1	08/25/21	08/25/21 21:53	WB
Carbon disulfide	ND		ug/m^3	1.56	1.56	1	08/25/21	08/25/21 21:53	WB
Carbon tetrachloride	0.38	J	ug/m³	1.30	0.33	1	08/25/21	08/25/21 21:53	WB
Chlorobenzene	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 21:53	WB
Chloroethane	ND		ug/m^3	0.53	0.27	1	08/25/21	08/25/21 21:53	WB
Chloroform	3.42		ug/m^3	0.97	0.24	1	08/25/21	08/25/21 21:53	WB
Chloromethane	0.99		ug/m³	0.41	0.10	1	08/25/21	08/25/21 21:53	WB
3-Chloropropene	ND		ug/m^3	0.63	0.16	1	08/25/21	08/25/21 21:53	WB
Cyclohexane	ND		ug/m^3	0.69	0.17	1	08/25/21	08/25/21 21:53	WB
Dibromochloromethane	ND		ug/m^3	1.30	0.33	1	08/25/21	08/25/21 21:53	WB
1,2-Dibromoethane (EDB)	ND		ug/m^3	1.40	0.35	1	08/25/21	08/25/21 21:53	WB
1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 21:53	WB
1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 21:53	WB
1,4-Dichlorobenzene	0.48	J	ug/m³	1.20	0.30	1	08/25/21	08/25/21 21:53	WB
Dichlorodifluoromethane	1.98		ug/m^3	0.99	0.99	1	08/25/21	08/25/21 21:53	WB
1,1-Dichloroethane	ND		ug/m^3	0.81	0.20	1	08/25/21	08/25/21 21:53	WB
1,2-Dichloroethane	ND		ug/m^3	0.81	0.20	1	08/25/21	08/25/21 21:53	WB
1,1-Dichloroethene	ND		ug/m^3	0.79	0.20	1	08/25/21	08/25/21 21:53	WB
cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 21:53	WB
trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 21:53	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 21:53	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 21:53	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 21:53	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 21:53	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 21:53	WB
Ethylbenzene	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 21:53	WB
4-Ethyltoluene	0.29	J	ug/m³	0.98	0.25	1	08/25/21	08/25/21 21:53	WB
Freon 113	0.54	J	ug/m³	1.50	0.38	1	08/25/21	08/25/21 21:53	WB

Ratecka Korns

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Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

B205 CLASSROOM 21082404-011 1082526-09 (Vapor)

Sample Date: 08/23/21

Sample Date: 00/25/21										
Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst	
					. ,	Dilution	ricpared	Anaryzeu	Allalyst	
Volatile Organics by EPA TO-15 (C		repared b				1	00/25/21	09/25/21 21:52	WD	
Freon 114	ND		ug/m³	1.40	1.40	1	08/25/21	08/25/21 21:53	WB	
n-Heptane	0.37	J	ug/m³	0.82	0.21	1 1	08/25/21 08/25/21	08/25/21 21:53 08/25/21 21:53	WB WB	
Hexachlorobutadiene	ND		ug/m³	2.10	2.10				WB	
Hexane	ND		ug/m³	14.0	14.0	1	08/25/21	08/25/21 21:53		
2-Hexanone	0.29	J	ug/m³	0.82	0.15	1	08/25/21 08/25/21	08/25/21 21:53	WB WB	
Isopropylbenzene (Cumene)	ND		ug/m³	1.10	0.40	1		08/25/21 21:53		
Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.72	0.21	1	08/25/21	08/25/21 21:53	WB	
Methylene chloride	ND		ug/m³	18.0	18.0	1	08/25/21	08/25/21 21:53	WB	
Methyl ethyl ketone (2-Butanone)	1.83		ug/m³	0.59	0.34	1	08/25/21	08/25/21 21:53	WB	
Methyl isobutyl ketone	ND		ug/m³	0.82	0.82	1	08/25/21	08/25/21 21:53	WB	
Naphthalene	ND		ug/m³	1.10	0.70	1	08/25/21	08/25/21 21:53	WB	
Propene	ND		ug/m³	0.34	0.34	1	08/25/21	08/25/21 21:53	WB	
n-Propylbenzene	ND		ug/m³	0.98	0.40	1	08/25/21	08/25/21 21:53	WB	
Styrene	0.38	J	ug/m^3	0.85	0.15	1	08/25/21	08/25/21 21:53	WB	
1,1,2,2-Tetrachloroethane	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 21:53	WB	
Tetrachloroethene	0.75	J	ug/m^3	1.40	0.70	1	08/25/21	08/25/21 21:53	WB	
Tetrahydrofuran	0.18	J	ug/m³	0.59	0.15	1	08/25/21	08/25/21 21:53	WB	
Toluene	1.21		ug/m³	0.75	0.35	1	08/25/21	08/25/21 21:53	WB	
1,2,4-Trichlorobenzene	ND		ug/m³	1.50	0.38	1	08/25/21	08/25/21 21:53	WB	
1,1,1-Trichloroethane	ND		ug/m³	1.10	0.28	1	08/25/21	08/25/21 21:53	WB	
1,1,2-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 21:53	WB	
Trichloroethene	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 21:53	WB	
Trichlorofluoromethane (Freon 11)	1.24		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 21:53	WB	
1,2,4-Trimethylbenzene	0.34	J	ug/m^3	0.98	0.25	1	08/25/21	08/25/21 21:53	WB	
1,3,5-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 21:53	WB	
2,2,4-Trimethylpentane	ND		ug/m^3	0.93	0.23	1	08/25/21	08/25/21 21:53	WB	
Vinyl acetate	ND		ug/m^3	0.70	0.70	1	08/25/21	08/25/21 21:53	WB	
Vinyl bromide	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 21:53	WB	
Vinyl chloride	ND		ug/m³	0.51	0.13	1	08/25/21	08/25/21 21:53	WB	
o-Xylene	0.30	J	ug/m³	0.87	0.22	1	08/25/21	08/25/21 21:53	WB	
m- & p-Xylenes	0.69	J	ug/m³	1.70	0.43	1	08/25/21	08/25/21 21:53	WB	
Surrogate: 4-Bromofluorobenzene		7.	3-115	98 %	08/25/2	1	08/25/21 21:53			

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Rabecka Koons, Quality Assurance Officer



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

E210 CLASSROOM 21082404-012 1082526-10 (Vapor) Sample Date: 08/23/21

				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (GO	C/MS) Pi	repared by	y TO-15 F	rep					
Acetone	17.9		ug/m³	2.40	2.40	1	08/25/21	08/25/21 22:27	WB
Benzene	0.32	J	ug/m³	0.64	0.16	1	08/25/21	08/25/21 22:27	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/25/21	08/25/21 22:27	WB
Bromodichloromethane	ND		ug/m³	1.30	0.33	1	08/25/21	08/25/21 22:27	WB
Bromoform	ND		ug/m³	2.10	0.53	1	08/25/21	08/25/21 22:27	WB
Bromomethane	ND		ug/m³	0.78	0.20	1	08/25/21	08/25/21 22:27	WB
1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/25/21	08/25/21 22:27	WB
Carbon disulfide	ND		ug/m³	1.56	1.56	1	08/25/21	08/25/21 22:27	WB
Carbon tetrachloride	0.44	J	ug/m³	1.30	0.33	1	08/25/21	08/25/21 22:27	WB
Chlorobenzene	ND		ug/m^3	0.92	0.23	1	08/25/21	08/25/21 22:27	WB
Chloroethane	ND		ug/m³	0.53	0.27	1	08/25/21	08/25/21 22:27	WB
Chloroform	ND		ug/m³	0.97	0.24	1	08/25/21	08/25/21 22:27	WB
Chloromethane	1.01		ug/m³	0.41	0.10	1	08/25/21	08/25/21 22:27	WB
3-Chloropropene	ND		ug/m³	0.63	0.16	1	08/25/21	08/25/21 22:27	WB
Cyclohexane	ND		ug/m^3	0.69	0.17	1	08/25/21	08/25/21 22:27	WB
Dibromochloromethane	ND		ug/m^3	1.30	0.33	1	08/25/21	08/25/21 22:27	WB
1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 22:27	WB
1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 22:27	WB
1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 22:27	WB
1,4-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/25/21	08/25/21 22:27	WB
Dichlorodifluoromethane	2.03		ug/m³	0.99	0.99	1	08/25/21	08/25/21 22:27	WB
1,1-Dichloroethane	ND		ug/m^3	0.81	0.20	1	08/25/21	08/25/21 22:27	WB
1,2-Dichloroethane	ND		ug/m^3	0.81	0.20	1	08/25/21	08/25/21 22:27	WB
1,1-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 22:27	WB
cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 22:27	WB
trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/25/21	08/25/21 22:27	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 22:27	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 22:27	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 22:27	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 22:27	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 22:27	WB
Ethylbenzene	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 22:27	WB
4-Ethyltoluene	ND		ug/m³	0.98	0.25	1	08/25/21	08/25/21 22:27	WB
Freon 113	0.46	J	ug/m³	1.50	0.38	1	08/25/21	08/25/21 22:27	WB

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rabecka Koons, Quality Assurance Officer



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

E210 CLASSROOM 21082404-012 1082526-10 (Vapor) Sample Date: 08/23/21

				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (C	C/MS) Pi	repared b	y TO-15 F	Prep (continued)					
Freon 114	ND		ug/m³	1.40	1.40	1	08/25/21	08/25/21 22:27	WB
n-Heptane	0.41	J	ug/m³	0.82	0.21	1	08/25/21	08/25/21 22:27	WB
Hexachlorobutadiene	ND		ug/m³	2.10	2.10	1	08/25/21	08/25/21 22:27	WB
Hexane	ND		ug/m^3	14.0	14.0	1	08/25/21	08/25/21 22:27	WB
2-Hexanone	ND		ug/m^3	0.82	0.15	1	08/25/21	08/25/21 22:27	WB
Isopropylbenzene (Cumene)	ND		ug/m^3	1.10	0.40	1	08/25/21	08/25/21 22:27	WB
Methyl tert-butyl ether (MTBE)	ND		ug/m^3	0.72	0.21	1	08/25/21	08/25/21 22:27	WB
Methylene chloride	ND		ug/m³	18.0	18.0	1	08/25/21	08/25/21 22:27	WB
Methyl ethyl ketone (2-Butanone)	1.62		ug/m³	0.59	0.34	1	08/25/21	08/25/21 22:27	WB
Methyl isobutyl ketone	ND		ug/m^3	0.82	0.82	1	08/25/21	08/25/21 22:27	WB
Naphthalene	ND		ug/m^3	1.10	0.70	1	08/25/21	08/25/21 22:27	WB
Propene	ND		ug/m^3	0.34	0.34	1	08/25/21	08/25/21 22:27	WB
n-Propylbenzene	ND		ug/m^3	0.98	0.40	1	08/25/21	08/25/21 22:27	WB
Styrene	0.26	J	ug/m³	0.85	0.15	1	08/25/21	08/25/21 22:27	WB
1,1,2,2-Tetrachloroethane	ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 22:27	WB
Tetrachloroethene	ND		ug/m^3	1.40	0.70	1	08/25/21	08/25/21 22:27	WB
Tetrahydrofuran	0.59	J	ug/m³	0.59	0.15	1	08/25/21	08/25/21 22:27	WB
Toluene	1.32		ug/m^3	0.75	0.35	1	08/25/21	08/25/21 22:27	WB
1,2,4-Trichlorobenzene	ND		ug/m^3	1.50	0.38	1	08/25/21	08/25/21 22:27	WB
1,1,1-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 22:27	WB
1,1,2-Trichloroethane	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 22:27	WB
Trichloroethene	ND		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 22:27	WB
Trichlorofluoromethane (Freon 11)	1.24		ug/m^3	1.10	0.28	1	08/25/21	08/25/21 22:27	WB
1,2,4-Trimethylbenzene	ND		ug/m^3	0.98	0.25	1	08/25/21	08/25/21 22:27	WB
1,3,5-Trimethylbenzene	ND		ug/m³	0.98	0.25	1	08/25/21	08/25/21 22:27	WB
2,2,4-Trimethylpentane	0.33	J	ug/m^3	0.93	0.23	1	08/25/21	08/25/21 22:27	WB
Vinyl acetate	ND		ug/m³	0.70	0.70	1	08/25/21	08/25/21 22:27	WB
Vinyl bromide	ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 22:27	WB
Vinyl chloride	ND		ug/m^3	0.51	0.13	1	08/25/21	08/25/21 22:27	WB
o-Xylene	0.26	J	ug/m^3	0.87	0.22	1	08/25/21	08/25/21 22:27	WB
m- & p-Xylenes	0.61	J	ug/m³	1.70	0.43	1	08/25/21	08/25/21 22:27	WB
Surrogate: 4-Bromofluorobenzene		7.	3-115	98 %	08/25/21		08/25/21 22:27		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rabecka Koons, Quality Assurance Officer

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report



Project Manager: Amber Confer

Project Number: [none]

Analytical Results



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/01/21 17:13

Notes and Definitions

J Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered

an estimate (CLP E-flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%-Solids Percent Solids is a supportive test and as such does not require accreditation

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rabecka Koons, Quality Assurance Officer



Chain of Custody Form for Subcontracted Analyses

Page 1 of 1

6630 Baltimore, MI Baltimore, MI Phone: (410) 781 Fax: (410) 781	747-8770	nber Confer	Proj Proj Rep	ect Number : ort To LOD		Maryl	es Transferred To: and Spectral Service Caton Center Drive fore, MD 21227 410-247-7600	ces, Inc.		
Lab Sample II	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative / 6815	26	
21082404-00	Cafeteria 2	08/23/21	17:06	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	- 4	6
21082404-00	O2 Cafeteria 1	08/23/21	17:10	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	- 0	12
21082404-00	Main Gymnasium	08/23/21	17:18	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	- 6	Ι.
21082404-00	C109 Hallway	08/23/21	17:26	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	- ő	ا ا
21082404-00	Cl27 Classroom	08/23/21	18:04	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	- 6	b 🗧
21082404-00	06 Auditorium	08/23/21	18:08	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	- A	6
21082404-00	7 Admin Office	08/23/21	17:37	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	ີ . ບ	7
21082404-01	0 E109 Classroom	08/23/21	17:32	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	- (ا کی
21082404-01	I B205 Classroom	08/23/21	18;20	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	_]	0 9
21082404-01	2 E210 Classroom	08/23/21	18:27	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON		1 0
Send Re Airbill No.: Condition Upo Comments: Samples Relin Samples Relin	liverables Required: port Attn: reporting@ Cau on Receipt: quished By:	Date :	TE	ime:	Samples Received By: 10 Fi	nvoiceAttn: in	voicing@phaseor	nline.com	Antonio Antoni	440000000000000000000000000000000000000
Samples Relin	quished By:	Date: <u>Q/2</u>	<u>5/L</u> 1 т	ime: 11:11	Samples Received By:				-	

Air Analysis by TO-15

												····					Т			
Cilent Contact Information			Project Ma	nager	: A	mber	Confer							1 of 1 cocs						
Company: Mare Separat	√01	`	Phone:					Samplers I	Name(s)					Ana	lysis	Ma	HX.			
			Site Conta	ct:													1			
													- 1							
Project Name: ACPS			Analysis T	urnare	ound	Time]		LIST					
Site: PO#			Standard (()	···········								ī	욘	t Air	g			
PO#	l		Rush (Spe	cify)	-		<u></u>			1	<u> </u>			SIT.	Ž	bien	agr			
							Canister	Canister	Incoming					TO-15 FULL	TO-15 ABREVIATED LIST	Indoor / Ambient Air	Soll Gas / Substab	nts		
	Ser	mpie	Time Start	. Sam	ole	Time Stop	Pressure in Field ("Ho)	Pressure in Fleid ("Hg):	Canister Pressure	Sample		Can S	ize	-151	-15)	Poor	≣ Ga	Comments		
Client Sample ID			(24 hr clock)	Date 8	Slop	(24 hr clock)	(Start)	(Stop)		Regulator ID	Can ID	(L)		70	£		So	8		
21082404-001	8/22	3)21	0925	8/2	3/24	1706	29.75	6.5			9605	1.	11	Х		X		1082726	-، إ	01
21082404-002		[0932	1		1710	30.0	8.2			00584							- 02		
21082404-003			0942			1719	30.0	20		04621	3662							- 03		
71082404-004			0947			1726	30.0	1.2		04703	883						:	~ 04		
21082404-005			0956			1804	30.0	1-0		04724	9332							-05		
21082404-006			1002			1808	30.0	4.0			609			П				-09		
21082404-007			1014			1737		6-0			3678					Γ		-07	1	
21082404-010			1046			1732	29.25			04500	3056							- 08]	
21082404-011			1055			1820	30.0	1.2	-	04602	607			7				, 0 d	1	
21082404-012		/	1100	1	J	1427	30.0	2.2		3604	612		U	1/		V		- (0		
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Special Instructions/QC Requirem	ents -	& Co	mments;				·	<u> </u>		1		<u> </u>		Ц	<u>. </u>	_			1	
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Canisters Shipped by:	Date	e/Tim	э;				Canisters	Received b	*		Date/Time	: ,,,			1	, .	30		1	
Samples Relinquished by:	Date	e/Time	a:				Received	by:			りノス Date/Time		<u>/ </u>	. 1	1	١,	10	·		
							LOY	1 10	15 kg	٢										
Relinquished by:	Date	/Time) :				Received	by:			Date/Time	:								

TO-15_COC.xls Page 38 of 50

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Case Narrative

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Incoming pressures not taken at PSS for samples 001-007 and 010-012; samples subbed out. Incoming pressures will be taken at subcontracted lab.

21082404: Analyses associated with analyst code 4010 were performed by Maryland Spectral Services, Inc., 1500 Caton Center Drive, Suite G, Baltimore, MD 21227 - VA 460156

Analytical:

VOCs in Air by GC/MS

Batch: 187060

Method exceedance: Laboratory control sample/laboratory control sample duplicate (LCS/LCSD)exceedances identified; see QC summary.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

EPA TO-15: 1,2-Dichlorotetrafluoroethane, Chloroethane, Dibromochloromethane



Lab Chronology

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Method	Client Sample ID	Analysis Type	PSS Sample ID) Mtx	Prep Batch	Analytical Bate	ch Prepared	Analyzed
EPA TO-15	D108 Classroom	Initial	21082404-008	A	87437	187060	08/25/2021 07:29	08/25/2021 17:15
	159 Hallway	Initial	21082404-009	A	87437	187060	08/25/2021 07:29	08/25/2021 18:09
	Media Center	Initial	21082404-013	A	87437	187060	08/25/2021 07:29	08/25/2021 19:03
	D211 Classroom	Initial	21082404-014	A	87437	187060	08/25/2021 07:29	08/25/2021 19:57
	Outside Courtyard	Initial	21082404-015	A	87437	187060	08/25/2021 07:29	08/25/2021 20:51
	87437-1-BKS	BKS	87437-1-BKS	A	87437	187060	08/25/2021 07:29	08/25/2021 09:10
	87437-1-BLK	BLK	87437-1-BLK	A	87437	187060	08/25/2021 07:29	08/25/2021 11:50
	87437-1-BSD	BSD	87437-1-BSD	A	87437	187060	08/25/2021 07:29	08/25/2021 10:02



6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name ACPS - Francis Hammond MS

PSS Project No.: 21082404

 Analytical Method: EPA TO-15
 Prep Method: TO-15P

 Seq Number:
 187060
 Matrix: Air
 Date Prep: 08/25/21

 MB Sample Id:
 87437-1-BLK
 LCS Sample Id: 87437-1-BKS
 LCSD Sample Id: 87437-1-BSD

MB Sample Id: 8/43/-1	-BLK	L	.CS Sample	e Id: 8/4	37-1-BKS		LUSI	5 Sample	10: 8/4	37-1-850	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Acetone	<9.498	11.87	<9.498	0	<9.498	0	69-118	NC	25	ug/M3	L
Benzene	< 0.3193	15.97	14.40	90	14.40	90	79-107	0	25	ug/M3	
Benzyl Chloride	<1.035	25.87	31.21	121	31.31	121	78-143	0	25	ug/M3	
Bromodichloromethane	<1.340	33.49	29.47	88	29.47	88	81-111	0	25	ug/M3	
Bromoform	<2.067	51.67	54.77	106	55.60	108	78-133	2	25	ug/M3	
Bromomethane	< 0.7764	19.41	16.61	86	18.17	94	76-116	9	25	ug/M3	
1,3-Butadiene	< 0.4423	11.06	8.956	81	9.818	89	70-116	9	25	ug/M3	
2-Butanone (MEK)	<1.474	14.74	12.97	88	12.88	87	74-114	1	25	ug/M3	
Carbon Disulfide	<12.45	15.56	13.07	84	13.63	88	79-117	5	25	ug/M3	
Carbon Tetrachloride	<1.258	31.45	28.37	90	28.24	90	81-110	0	25	ug/M3	
Chlorobenzene	< 0.9204	23.01	22.36	97	22.96	100	84-119	3	25	ug/M3	
Chloroethane	< 0.5276	13.19	10.87	82	11.87	90	72-118	9	25	ug/M3	
Chloroform	< 0.9761	24.40	21.72	89	21.67	89	82-108	0	25	ug/M3	
Chloromethane	<0.4128	10.32	7.658	74	8.670	84	64-121	13	25	ug/M3	
Allyl Chloride (3-Chloropropene)	<0.6258	15.64	13.52	86	14.24	91	77-113	6	25	ug/M3	
Cyclohexane	< 0.6881	17.20	16.48	96	16.55	96	82-110	0	25	ug/M3	
Dibromochloromethane	<1.703	42.58	39.60	93	39.60	93	82-113	0	25	ug/M3	
1,2-Dibromoethane	<1.536	38.40	36.02	94	36.17	94	86-110	0	25	ug/M3	
1,2-Dichlorobenzene	<1.202	30.05	31.79	106	32.33	108	83-130	2	25	ug/M3	
1,3-Dichlorobenzene	<1.202	30.05	31.55	105	32.09	107	85-128	2	25	ug/M3	
1,4-Dichlorobenzene	<1.202	30.05	31.61	105	32.33	108	82-132	3	25	ug/M3	
Dichlorodifluoromethane	< 0.9887	24.72	19.03	77	20.91	85	62-122	10	25	ug/M3	
1,1-Dichloroethane	<0.8092	20.23	17.44	86	17.80	88	79-110	2	25	ug/M3	
1,2-Dichloroethane	<0.8092	20.23	17.44	86	17.40	86	75-110 75-112	0	25	ug/M3	
1,1-Dichloroethene	<0.7926	19.82	16.76	85	17.48	89	80-110	5	25	ug/M3	
cis-1,2-Dichloroethene	<0.7926	19.82	18.23	92	18.39	93	84-109	1	25 25	ug/M3	
trans-1,2-dichloroethene	<0.7926	19.82	17.64	89	18.03	91	81-109	2	25 25	ug/M3	
1,2-Dichloropropane	<1.848	23.10	20.46	89	20.33	88	81-111	1	25 25	ug/M3	
	< 0.9074	22.68	22.00	97	22.09	97	89-109	0	25 25	ug/M3	
cis-1,3-Dichloropropene	< 0.9074	22.68	22.00	97 97	21.91	97 97	89-114		25 25	ug/M3	
trans-1,3-dichloropropene 1,2-Dichlorotetrafluoroethane	<1.398	34.94	28.02	80	31.31	90	72-116	0 12	25 25	ug/M3	
1,4-Dioxane (P-Dioxane)	<3.602	18.01	18.08	100	17.98	100	70-120	0	25 25	ug/M3	
. ,									25 25	•	
Ethyl Acetate	<0.7204	18.01	18.12	101	18.34	102	87-124	1		ug/M3	
Ethylbenzene	<0.4340	21.70	23.13	107	23.65	109	87-125	2	25	ug/M3	
4-Ethyltoluene	<0.9827	24.57	26.63	108	27.07	110	87-127	2	25	ug/M3	
n-Heptane	< 0.8193	20.48	20.48	100	20.44	100	90-110	0	25 25	ug/M3	
Hexachlorobutadiene	<2.132	53.30	54.37	102	55.65	104	83-126	2		ug/M3	
n-Hexane	<14.09	17.61	17.19	98	17.33	98	84-114	0	25	ug/M3	
2-Hexanone (MBK)	<2.047	20.47	19.25	94	19.20	94	68-133	0	25	ug/M3	
Isopropylbenzene	<0.9827	24.57	24.91	101	25.40	103	88-117	2	25	ug/M3	
Methylene Chloride	<13.89	17.36	14.03	81	14.31	82	63-130	1	25	ug/M3	
4-Methyl-2-Pentanone (MIBK)	<2.047	20.47	19.08	93	19.00	93	78-115	0	25	ug/M3	
Methyl-t-Butyl Ether	<0.3604	18.02	17.51	97	17.88	99	86-109	2	25	ug/M3	
Naphthalene	<0.5240	26.20	36.94	141	37.67	144	65-129	2	25	ug/M3	Н
Propylene	<1.720	8.602	6.279	73	7.191	84	58-129	14	25	ug/M3	
n-Propylbenzene	<0.9828	24.57	26.49	108	25.36	103	86-121	5	25	ug/M3	
Styrene	<4.258	21.29	24.23	114	24.61	116	86-137	2	25	ug/M3	
1,1,2,2-Tetrachloroethane	<1.373	34.31	33.35	97	34.04	99	88-119	2	25	ug/M3	
Tetrachloroethene	<1.356	33.90	32.55	96	32.82	97	86-107	1	25	ug/M3	
Tetrahydrofuran	<0.5895	14.74	13.91	94	13.85	94	80-117	0	25	ug/M3	
Toluene	<0.3767	18.83	18.72	99	18.87	100	91-106	1	25	ug/M3	



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Project Name ACPS - Francis Hammond MS

PSS Project No.: 21082404

 Analytical Method: EPA TO-15
 Prep Method: TO-15P

 Seq Number:
 187060
 Matrix: Air
 Date Prep: 08/25/21

 MB Sample Id:
 87437-1-BLK
 LCS Sample Id: 87437-1-BKS
 LCSD Sample Id: 87437-1-BSD

I			•					-			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
1,2,4-Trichlorobenzene	<1.484	37.09	46.14	124	47.48	128	75-126	3	25	ug/M3	Н
1,1,1-Trichloroethane	<1.091	27.27	24.55	90	24.55	90	81-109	0	25	ug/M3	
1,1,2-Trichloroethane	<1.091	27.27	24.82	91	24.76	91	83-111	0	25	ug/M3	
Trichloroethene	<1.074	26.86	24.93	93	24.87	93	88-106	0	25	ug/M3	
Trichlorofluoromethane	<1.123	28.08	22.58	80	24.26	86	78-109	7	25	ug/M3	
1,1,2-Trichlorotrifluoroethane	<1.532	38.31	32.64	85	34.40	90	84-107	6	25	ug/M3	
1,2,4-Trimethylbenzene	< 0.9828	24.57	27.42	112	27.72	113	86-130	1	25	ug/M3	
1,3,5-Trimethylbenzene	< 0.9828	24.57	25.95	106	26.49	108	87-122	2	25	ug/M3	
2,2,4-Trimethylpentane	< 0.9339	23.35	21.43	92	21.43	92	78-107	0	25	ug/M3	
Vinyl acetate	<1.760	17.60	16.19	92	16.23	92	76-119	0	25	ug/M3	
Bromoethene	< 0.8746	21.86	18.93	87	20.64	94	77-117	8	25	ug/M3	
Vinyl chloride	< 0.5110	12.78	10.14	79	11.35	89	72-116	12	25	ug/M3	
m&p-Xylene	< 0.8681	43.41	45.88	106	46.62	107	88-122	1	25	ug/M3	
o-Xylene	<0.4341	21.70	23.00	106	23.35	108	89-120	2	25	ug/M3	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag			LCSD L Flag	imits	Units		
4-Bromofluorobenzene	100		104			106	8	37-120	%		

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits



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Project Name ACPS - Francis Hammond MS

PSS Project No.: 21082404

Analytical Method: EPA TO-15

Seq Number: 187060 Matrix: Air

CCV Sample Id: CCV-01 Analyzed Date: 08/25/21 08:20

oov bampie id. oov-or				7 mary 20d Bato. O	5/20/21 00.20	•
Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
Acetone	11.87	10.28	87	70-130	ug/M3	
Benzene	15.97	14.91	93	70-130	ug/M3	
Benzyl Chloride	25.87	27.97	108	70-130	ug/M3	
Bromodichloromethane	33.49	30.34	91	70-130	ug/M3	
Bromoform	51.67	52.90	102	70-130	ug/M3	
Bromomethane	19.41	18.28	94	70-130	ug/M3	
1,3-Butadiene	11.06	9.953	90	70-130	ug/M3	
2-Butanone (MEK)	14.74	13.56	92	70-130	ug/M3	
Carbon Disulfide	15.56	14.96	96	70-130	ug/M3	
Carbon Tetrachloride	31.45	28.75	91	70-130	ug/M3	
Chlorobenzene	23.01	23.06	100	70-130	ug/M3	
Chloroethane	13.19	12.25	93	70-130	ug/M3	
Chloroform	24.40	22.50	92	70-130	ug/M3	
Chloromethane	10.32	8.787	85	70-130	ug/M3	
Allyl Chloride (3-Chloropropene)	15.64	14.43	92	70-130	ug/M3	
Cyclohexane	17.20	17.03	99	70-130	ug/M3	
Dibromochloromethane	42.58	39.65	93	70-130	ug/M3	
1,2-Dibromoethane	38.40	36.92	96	70-130	ug/M3	
1,2-Dichlorobenzene	30.05	29.79	99	70-130	ug/M3	
1,3-Dichlorobenzene	30.05	30.17	100	70-130	ug/M3	
1,4-Dichlorobenzene	30.05	30.19	100	70-130	ug/M3	
Dichlorodifluoromethane	24.72	21.97	89	70-130	ug/M3	
1,1-Dichloroethane	20.23	18.60	92	70-130	ug/M3	
1,2-Dichloroethane	20.23	18.26	90	70-130	ug/M3	
1,1-Dichloroethene	19.82	18.44	93	70-130	ug/M3	
cis-1,2-Dichloroethene	19.82	19.07	96	70-130	ug/M3	
trans-1,2-dichloroethene	19.82	18.85	95	70-130	ug/M3	
1,2-Dichloropropane	23.10	21.20	92	70-130	ug/M3	
cis-1,3-Dichloropropene	22.68	22.58	100	70-130	ug/M3	
trans-1,3-dichloropropene	22.68	22.28	98	70-130	ug/M3	
1,2-Dichlorotetrafluoroethane	34.94	31.13	89	70-130	ug/M3	
1,4-Dioxane (P-Dioxane)	18.01	19.45	108	70-130	ug/M3	
Ethyl Acetate	18.01	18.98	105	70-130	ug/M3	
Ethylbenzene	21.70	23.74	109	70-130	ug/M3	
4-Ethyltoluene	24.57	26.65	108	70-130	ug/M3	
n-Heptane	20.48	21.14	103	70-130	ug/M3	
Hexachlorobutadiene	53.30	48.58	91	70-130	ug/M3	
n-Hexane	17.61	17.89	102	70-130	ug/M3	
2-Hexanone (MBK)	20.47	20.63	101	70-130	ug/M3	
Isopropylbenzene	24.57	25.29	103	70-130	ug/M3	
Methylene Chloride	17.36	15.28	88	70-130	ug/M3	
4-Methyl-2-Pentanone (MIBK)	20.47	20.01	98	70-130	ug/M3	
Methyl-t-Butyl Ether	18.02	18.51	103	70-130	ug/M3	
Naphthalene	26.20	28.45	109	70-130	ug/M3	
Propylene	8.602	7.222	84	70-130	ug/M3	
n-Propylbenzene	24.57	25.07	102	70-130	ug/M3	
Styrene	21.29	24.37	114	70-130	ug/M3	
1,1,2,2-Tetrachloroethane	34.31	33.17	97	70-130	ug/M3	
Tetrachloroethene	33.90	33.17	98	70-130	ug/M3	
Tetrahydrofuran	14.74	14.40	98	70-130 70-130	ug/M3	
Toluene	18.83	19.21	102	70-130	ug/M3	
. 3.33110	10.00	10.21	102	70 100	49/1110	



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Project Name ACPS - Francis Hammond MS

PSS Project No.: 21082404

Analytical Method: EPA TO-15

Seq Number: 187060 Matrix: Air

CCV Sample Id: CCV-01 Analyzed Date: 08/25/21 08:20

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
1,2,4-Trichlorobenzene	37.09	36.63	99	70-130	ug/M3	
1,1,1-Trichloroethane	27.27	25.56	94	70-130	ug/M3	
1,1,2-Trichloroethane	27.27	25.43	93	70-130	ug/M3	
Trichloroethene	26.86	25.84	96	70-130	ug/M3	
Trichlorofluoromethane	28.08	25.35	90	70-130	ug/M3	
1,1,2-Trichlorotrifluoroethane	38.31	35.67	93	70-130	ug/M3	
1,2,4-Trimethylbenzene	24.57	26.78	109	70-130	ug/M3	
1,3,5-Trimethylbenzene	24.57	25.82	105	70-130	ug/M3	
2,2,4-Trimethylpentane	23.35	22.40	96	70-130	ug/M3	
Vinyl acetate	17.60	16.10	91	70-130	ug/M3	
Bromoethene	21.86	21.04	96	70-130	ug/M3	
Vinyl chloride	12.78	11.26	88	70-130	ug/M3	
Surrogate		CCV		Limits	Units	Flag

Surrogate	CCV Result	Limits	Units	Flag
4-Bromofluorobenzene	82	50-150	%	



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Analyzed Date: 07/15/21 13:32

Project Name ACPS - Francis Hammond MS

PSS Project No.: 21082404

SCIENCE

Analytical Method: EPA TO-15

Seq Number: 185968 Matrix: Air
Parent Sample Id: ICV-01 ICV Sample Id: ICV-01

ICV ICV Spike Limits Units Flag **Parameter** Result %Rec Amount Acetone 70-130 11.87 10.66 90 ug/M3 Benzene 15.97 15.51 97 70-130 ug/M3 25.87 27.08 105 ug/M3 Benzyl Chloride 70-130 Bromodichloromethane 33.49 32.04 96 70-130 ug/M3 103 Bromoform 51.67 53.22 70-130 ug/M3 99 Bromomethane 19.17 70-130 ug/M3 19.41 10.68 97 ug/M3 1,3-Butadiene 11.06 70-130 2-Butanone (MEK) 14.74 14.29 97 70-130 ug/M3 Carbon Disulfide 15.20 98 ug/M3 15.56 70-130 Carbon Tetrachloride 31.45 30.48 97 70-130 ug/M3 Chlorobenzene 22.75 qq ug/M3 23.01 70-130 Chloroethane 13.19 12.91 98 70-130 ug/M3 Chloroform 97 ug/M3 24.40 23.55 70-130 Chloromethane 10.32 9.584 93 70-130 ug/M3 Allyl Chloride (3-Chloropropene) 15.43 99 ug/M3 15.64 70-130 Cyclohexane 17.20 18.31 106 70-130 ug/M3 ug/M3 Dibromochloromethane 41.98 99 42.58 70-130 1,2-Dibromoethane 38.40 38.46 100 70-130 ug/M3 29.90 100 ug/M3 1,2-Dichlorobenzene 30.05 70-130 1,3-Dichlorobenzene 30.05 30.07 100 70-130 ug/M3 30.27 101 1,4-Dichlorobenzene 30.05 70-130 ug/M3 Dichlorodifluoromethane 24.72 23.21 94 70-130 ug/M3 97 ug/M3 1,1-Dichloroethane 19.62 20.23 70-130 1,2-Dichloroethane 20.23 19.32 96 70-130 ug/M3 100 ug/M3 1,1-Dichloroethene 19.82 19.75 70-130 ug/M3 cis-1.2-Dichloroethene 19.82 20.37 103 70-130 100 ug/M3 trans-1,2-dichloroethene 19.82 19.79 70-130 ug/M3 1,2-Dichloropropane 23.10 22.40 97 70-130 cis-1,3-Dichloropropene 22.68 23.89 105 70-130 ug/M3 trans-1,3-dichloropropene 22.68 23.53 104 70-130 ug/M3 1,2-Dichlorotetrafluoroethane 33.51 96 70-130 ug/M3 34.94 106 ug/M3 1,4-Dioxane (P-Dioxane) 18.01 19.14 70-130 Ethyl Acetate 18.01 19.17 106 70-130 ug/M3 Ethylbenzene 21.70 23.79 110 70-130 ug/M3 4-Ethyltoluene 24.57 26.79 109 70-130 ug/M3 22.37 109 ug/M3 n-Heptane 20.48 70-130 Hexachlorobutadiene 53.30 47.13 88 70-130 ug/M3 n-Hexane 17.61 18.94 108 70-130 ug/M3 21.03 103 ug/M3 2-Hexanone (MBK) 20.47 70-130 25.34 103 ug/M3 Isopropylbenzene 24.57 70-130 Methylene Chloride 16.17 93 70-130 ug/M3 17.36 4-Methyl-2-Pentanone (MIBK) 20.47 21.14 103 70-130 ug/M3 Methyl-t-Butyl Ether 18.02 19.55 108 70-130 ug/M3 Naphthalene 26.20 21.32 81 ug/M3 70-130 Propylene 8.602 8.112 94 70-130 ug/M3 n-Propylbenzene 24.57 26.87 109 70-130 ua/M3 Styrene 21.29 24.28 114 70-130 ug/M3 32.86 1.1.2.2-Tetrachloroethane 34.31 96 70-130 ug/M3 Tetrachloroethene 33.90 34.26 101 70-130 ug/M3 Tetrahvdrofuran 14.74 15.47 105 70-130 ug/M3 Toluene 18.83 20.13 107 70-130 ug/M3



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Project Name ACPS - Francis Hammond MS

PSS Project No.: 21082404

Analytical Method: EPA TO-15

Seq Number: 185968 Matrix: Air ICV Sample Id: ICV-01 Parent Sample Id: ICV-01

Analyzed Date: 07/15/21 13:32 ICV Spike ICV Limits Units Parameter Flag

Farameter	Amount	Result	%Rec		riag
1,2,4-Trichlorobenzene	37.09	33.48	90	70-130	ug/M3
1,1,1-Trichloroethane	27.27	26.75	98	70-130	ug/M3
1,1,2-Trichloroethane	27.27	26.47	97	70-130	ug/M3
Trichloroethene	26.86	26.83	100	70-130	ug/M3
Trichlorofluoromethane	28.08	26.66	95	70-130	ug/M3
1,1,2-Trichlorotrifluoroethane	38.31	37.18	97	70-130	ug/M3
1,2,4-Trimethylbenzene	24.57	27.23	111	70-130	ug/M3
1,3,5-Trimethylbenzene	24.57	26.05	106	70-130	ug/M3
2,2,4-Trimethylpentane	23.35	23.79	102	70-130	ug/M3
Vinyl acetate	17.60	18.06	103	70-130	ug/M3
Bromoethene	21.86	21.66	99	70-130	ug/M3
Vinyl chloride	12.78	12.23	96	70-130	ug/M3
m&p-Xylene	43.41	46.74	108	70-130	ug/M3
o-Xylene	21.70	23.49	108	70-130	ug/M3

Surrogate	ICV Result	Limits	Units	Flag
4-Bromofluorobenzene	103	50-150	%	

X = Recovery outside of QC Criteria

PHASE **SEPARATION** SCIENCE

TO-15 CHAIN OF CUSTODY FORM

All Fields must be completed accurately. Shaded sections for lab use only.

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		0000	Daitimore	National Fi	ke ~ Suite it	JS-A Baiti	more, mai	ylanu Z1ZZ	0~(410	1 141-0	770~	(000)	932-	9047		
1	PSS CL	IENT: TEC	OFF	ICE LOCATION	1: Lorto	,VA	PSS Work				PAGE		_ OF	2	•••	
	BILL TO	(if different):	PHC	NE#: 70	3-567-4	346	210	18240	1							
	CONTA	CT: Karl Ford	EMA	IL: Kford	etecipe		3		rre in	ure in	ter Lab	lab	ıt Air			
	PROJEC	CTNAME: ACPS-FOO		PROJECT#:	2471.00	100		eg. IC	ressu	resst Stop	Canister ("Hg) Lab	Subslab	mbier	I List	t,	
	SITE LC	OCATION: 4646 Scales	Lool ny Rd. Ale	randric P.O. #:	4920002	-001	₽	Sample Reg. ID	Canister Pressure in field ("Hg) Start	Canister Pressure in field ("Hg) Stop	Incoming (Pressure (3as /	Indoor / Ambient Air	TO-15 Full List	Special List	
	SAMPLE	ER(S): William S. Hul	ocr.				Can ID	Sam	Can	Can field	Inco Pres	Soil (opul	70	Spe	REMARKS
2	PSS ID	SAMPLE IDENTIFICATION	DATE START	Time Start (24hr clock)	DATE STOP	Time Stop (24hr clock)										
1	-	Cofeterio 2	3/13/11	0925	8/13/21	1700	9605	13372	29.75	6.5			X	X		
1	2	Cofiterial	А	0932	,	1710	00584	13055	30.0	8.2.			X	X		
4	3	Main Cymnosium		0942		(718	3665	04691	35.0	2.0			X	X		
4	4	C109 Hollway		0947		1726	883	04703	30.0	1.2			X	X		
4	5	C127 Closeroon		0950		1804	9332	04724	30.0	1.0			X	X		
1	6	Auditorium		1002		1808	609	12319	30.0	4.0			X	X		
1	7	Admin Office		1014		1737	3678	10941	30.0	6.0			X	X		
1	8	D108 Classepon		1036		1748	4259	10945	29.7	8.2	8		X	X		``
1	9.	159 Hallway		1040		1744	4274	10285	30.0	5.8	4		X	X	_/	
1	10	F109 Clossroom	Y	1040	74	1732	3050	04500	29.25	4.0			X	X		
5	Relinqu	ished By: (1)	Date	Time	Received By:	7/	4)	□ 5-Day	sted TAT (One TAT Day mergend	per CO	C) 2-Day Other			ing Ca	
ŀ	Relingu	MAC YOURS	8/24/21 Bate	11:30 Time	Received By:	Du		☐ Next Day			у 🗆 С	Other			-112	ul
		, 0,						Data Delivera	ables Rec	quired:						
	Relinqu	ished By: (3)	Date	Time	Received By:			Special Instru	uctions:							
	Relinqu	ished By: (4)	Date	Time	Received By:											

This chain of custody is a legal document. The client (Client Name), by signing, or having client's agent sign, this "TO-15 Chain of Custody Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

PHASE **SEPARATION** SCIENCE

TO-15 CHAIN OF CUSTODY FORM

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1	PSS CLI	ENT: TEC	OFF	ICE LOCATION		1/4	PSS Work	Order #-			PAGE			2			
		(if different):		NE#: 703	3-567-L	1346	2	1082	140	4							
	CONTAC	et: Karl Ford	EMA	il: Kfor	deterip	000	3		re in	ē Ë	ter -ab	ab	t Air				
	PROJEC	TNAME: ACPS-Francis Middle So	Hannond		2471.00	100 1000		Gl. ID	Pressu Start	Pressu Stop	Canis ("Hg) I	Subs	mbien	II List	st		
	SITE LO	CATION: 4646 Seminory	Rd Alcha	J.C. P.O. #:	492000	2-001	Can ID	Sample Reg. ID	Canister Pressure in field ("Hg) Start	Canister Pressure in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab	Indoor / Ambient Air	TO-15 Full List	Special List		
	SAMPLE	ER(S): William S. F			,		S	Sa	fe Ca	fe Ca	P. P.	So	<u>l</u> ud	70	Sp	REMARK	s
2	PSS ID	SAMPLE IDENTIFICATION	DATE START	Time Start (24hr clock)	DATE STOP	Time Stop (24hr clock)									100		143
	11	BLOS Claureson	8728121	1022	8/23/21	1820	607	20240	30.0	1.2			X	X	美		
1	19	ELIO Clossroom		1100		1827	615	03604	30.0	2.2			X	X	*		
1	13	Media Conter		1107		1835	4307	04757	30.0	3.0	2		X	X	*		
1	14 .	DSII Closscoom		1123		1840	3544	04754	30.0	2.5	2		X	X	*		
1	-15	Outside Courtyard	V	1130	U	1815	3549	10278	30.0	3.0	4		X	X	+		*
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ľ	Relinqu	shed By: (4)	Date	Time	Received By:												
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This chain of custody is a legal document. The client (Client Name), by signing, or having client's agent sign, this "TO-15 Chain of Custody Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

Effective Date: 11/09/18

TO-15 Canister and Flow Controller Check List

	Спеск	Спеск	
, and	Out	In (use n/a as necessary)	Check Out
5	V	No. Canisters:	BO#/Client: 144/0 10/100
		Pressure Checked (29 – 30" Hg)	Assembled/Checked Out: Date/Initials 1/10/12/13/10/12
	V	Top of Micro QT tight	Serial #s Entered in LIMS: Date/Initials On SIR M
^	V	Sampling tag/label	Verified: Date/Initials An SIRM
5	4	Stands	
5	V	No. Flow controllers:	
		Use COC pressures to evaluate sampling	time accuracy
	8	Leak evaluated	Check In
	V	Gauge checked / adjusted (29 – 30" Hg)	Sample Receipt Checklist: Date/Initials:
	6	Flow set	Work Order No.: 21082404
	1	Purged with N	Checked In: Date/Initials
		*Checked for water if soil gas	Account of the contract of the
-		Duplicate T-piece(s)	
		Other items in bin:	
	V	Hard Copy of O-01.05.F01 TO-15 Client Sar	mpling Guide
	V	COC Form(s) (+1 extra)	
	V	Client copy of bottle order	Notes
***	The second second	STOP Notice if split IA/SG order	
		Soil Gas? wrench/nuts/ferules Qty	
-		Tubing? purged/capped: ft	
-		Tubing cutter	
	V	Bin labelled, copy of BO for receiving	
	1	Client survey response card	
	Vapor	Pins – indicate type: barbed/compression	
		Vapor Pins with sleeves: Qty	
	一 同	Tygon pieces/FLX Fittings: Qty	
		Installation tool	
	H	Deadblow hammer	
		Hole Brush	
		Additional Items (see form F06)	
		,	
		Sample Receipt Checklist (Y/N): To be o	completed during login
	ſ		te: Sample ID; Start/Stop Dates/Times; Canister ID (S/N); Flow
		Controller ID (S/N); Field Start and Stop P	ressures; Soil Gas/Indoor Air.
	[*Sampling times documented in 24 hour c	lock or am/pm or else verified.
	ī	*Incoming lab pressure w/in 5" of field sto	on pressure and < 10" Hg for indoor air and <15" Hg for soil gas.

^{*}These sample check in criteria must be met or the nonconformance must be documented in the Sampling & Login case narrative field of the work order in LIMS and communicated to the PSS project manager for client notification.



Sample Receipt Checklist

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SCIENCE

Project Name: ACPS - Francis Hammond MS

PSS Project No.: 21082404

Total Environmental Concepts - Lorto Received By **Client Name** Thomas Wingate

Disposal Date 09/28/2021 08/24/2021 11:30:00 AM Date Received

> **Delivered By** Client

Not Applicable **Tracking No**

Logged In By Lynn Jackson

Shipping Container(s)

No. of Coolers

N/A Ice

Custody Seal(s) Intact? N/A Temp (deg C)

N/A Temp Blank Present No Seal(s) Signed / Dated?

Sampler Name W. Scott Huber **Documentation**

COC agrees with sample labels? MD DW Cert. No. Yes N/A

Chain of Custody Yes

Sample Container Custody Seal(s) Intact? Not Applicable

Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable

Intact? Yes

Labeled and Labels Legible? Yes

Total No. of Samples Received **Holding Time** 15

All Samples Received Within Holding Time(s)? Yes Total No. of Containers Received 15

Preservation

Total Metals	(pH<2)	N/A
Dissolved Metals, filtered within 15 minutes of collection	(pH<2)	N/A
Orthophosphorus, filtered within 15 minutes of collection		N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, DOC (field filtered), COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	N/A
Do VOA vials have zero headspace?		N/A
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A
524 VOC (Rcvd with trip blanks)	(pH<2)	N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Incoming pressures not taken at PSS for samples 001-007 and 010-012; samples subbed out. Incoming pressures will be taken at subcontracted lab.

Samples Inspected/Checklist Completed By:	NY Jackson	Date: 08/24/2021
-	Lynn Jackson	

PM Review and Approval:

Multiple Joseph Amilian South Date: 08/24/2021

Version 1.000

PHASE SEPARATION SCIENCE

TO-15 CHAIN OF CUSTODY FORM

All Fields must be completed accurately. Shaded sections for lab use only.

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SS20 Baltimore National Bike ~ Suite 103.4 ~ Baltimore Manyland 21229 ~ (410) 747 9770 ~ (900) 922 9047

-		0000	Daitimore	National Fi	ke ~ Suite II	Jo-A Daiti	more, ma	ylanu Z 122	0 - (411	1141-0	110~	000)	332-	3047			
1	PSS CL	IENT: TEC		CELOCATION		VA +346	PSS Work	Order#:	240	4	PAGE	2	_ OF	2	-		
ŀ	CONTA	on: Karl Ford	ЕМА	IL: Kfor	d@terip	000	3		5,595		iister 3) Lab	osiab	ent Air	st			
	SITE LO	CATION: 4646 Seminory	, Rd Alexan	PROJECT#:	492000		Can ID	Sample Reg. ID	Canister Pressure in field ("Hg) Start	Canister Pressure in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab	Indoor / Ambient Air	TO-15 Full List	Special List		
2	PSS ID	SAMPLE IDENTIFICATION	DATE	Time Start	DATE	Time Stop	0	0,	0 =	0 4	= u	0)	_		0)	REMARKS	3
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ł	13	Media Conter		1107		1835	4307	04757	30.0	3.0	2		X	X	*		
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5	Der	ished By: (1)	Date 8/24/21	Time)]: 30	Received By:	The	4	Reques 5-Day Next Day	sted TAT	One TAT Day mergeno		C) 2-Day Other			oing Ca		
ı	Relinqu	shed B (2)	Date /	Time	Received By:			Data Delivera	ables Red	quired:				Ĭ	•		
	Relinqu	shed By: (3)	Date	Time	Received By:			Special Instru	uctions:								
	Relinqui	shed By: (4)	Date	Time	Received By:												

PHASE SEPARATION SCIENCE

TO-15 CHAIN OF CUSTODY FORM

All Fields must be completed accurately. Shaded sections for lab use only.

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	$\overline{}$		Duitimore		Market Control of the	And the second	and to just	rylanu Z 122	- (1		1000	202	70-77	_	
1	PSS CL		9838743	ICE LOCATION		1	PSS Work	Order #:	1		PAGE		_ OF	2	-	
ŀ	BILL IU	(if different):	PHC	NE.#:) ()	3-507-4	346		1							_	
ŀ	CONTA	et: Karl Ford	EMA	IL: Kton	letecipro)	3		Canister Pressure in field ("Hg) Start	Canister Pressure in field ("Hg) Stop	Canister ("Hg) Lab	slab	Indoor / Ambient Air			
ı	PROJEC	TNAME: ACPS-FOR	15 Hemand	PROJECT#:	2471.00	102		- g	Star	Stop	Hg	Sub	nbie	S		
ı	SITE LO	CATION: 4646 Semino	4001	VA.	402000	-001		e Re	ter P	ter P Hg)	ing (as /	./ An	Full	SILis	
ı	SAMPLE	4 GE - 18 - 1789 - 1789 - 1789	4	063016	·/LGOOL	-001	Can ID	Sample Reg. ID	Canis field (Canis field (Incoming (Pressure (Soil Gas / Subslab	loopul	TO-15 Full List	Special List	REMARKS
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1	3	Main Cymposium		0.947		1718	3665	04091	32.0	1.0			X	X		
4	4	C109 Hollway		0947		1726	883	04703	30.0	17			X	X		
4	5	C127 Closeroum		0950		1804	9332	04724	30.0	1.0			X	X		
1	6	Auditorium		1002		1808	609	12319	30.0	4.0			X	X		
1	7	Admin Office		1014		1737	3678	10941	30.0	6.0			X	X		
1	8	D108 Clevicrom		1030		1748	4259	10945	29.7	8.2	8		X	X		84
1	9.	159 Hallway		1040	4/	1744	4274	10285	30.0€	5.8	4		X	X	,	
1	10	F109 Clostroom	Y	1040	W	1732	3050	04500	29.25	1.0			X	X		
5	Relinqu	shed By: (1)	Date	Time	Received By:	-, [4	Reques 5-Day	ted TAT (One TAT	per CO	C)		Shipp	ing Ca	ırrier:
I	De	end Johnson	8/24/21	11:30	14	Un-		☐ Next Day		mergenc	y Há	2-Day Other		(Cin	w
ı	Relinqu	shed By: 💋	Date	Time	Received By:			Data Delivera	bles Req	juired:						
Ì	Relinqu	shed By: (3)	Date	Time	Received By:		*	Special Instru	ictions:						-	
	Relinqu	shed By: (4)	Date	Time	Received By:											

This chain of custody is a legal document. The client (Client Name), by signing, or having client's agent sign, this "TO-15 Chain of Custody Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

Appendix D: Formaldehyde Analytical Results



Certificate of Analysis

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS IAQ Testing

PSS Project No.: 21082541

September 3, 2021

Karl Ford
Total Environmental Concepts - Lorton
8382 Terminal Road, Suite B
Lorton, VA 22079

Reference: PSS Project No: 21082541

Project Name: ACPS IAQ Testing Project Location: Francis Hammond

Project ID.: 4920002



Dear Karl Ford:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) 21082541.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 29, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager





Explanation of Qualifiers

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS IAQ Testing

PSS Project No.: 21082541

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/25/2021 at 05:35 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected	
21082541-001	FH-Cafe	AIR	08/23/21 00:00	
21082541-002	FH-Cafe 2	AIR	08/23/21 00:00	
21082541-003	FH-Hall C106	AIR	08/23/21 00:00	
21082541-004	FH-E109 Class	AIR	08/23/21 00:00	
21082541-005	FH-Main Gym	AIR	08/23/21 00:00	
21082541-006	FH-Auditorium	AIR	08/23/21 00:00	
21082541-007	FH-Main Admin	AIR	08/23/21 00:00	
21082541-008	FH-C127 Class	AIR	08/23/21 00:00	
21082541-009	FH-D109 Class	AIR	08/23/21 00:00	
21082541-010	FH-Hall 159	AIR	08/23/21 00:00	
21082541-011	FH-B229 Hallway	AIR	08/23/21 00:00	
21082541-012	FH-B205 Class	AIR	08/23/21 00:00	
21082541-013	FH-E210 Class	AIR	08/23/21 00:00	
21082541-014	FH-E211 Class	AIR	08/23/21 00:00	
21082541-015	FH-Library	AIR	08/23/21 00:00	

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.



Explanation of Qualifiers

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SCIENCE

Project Name: ACPS IAQ Testing

PSS Project No.: 21082541

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156

State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015



Ms. Amber Confer Phase Separation Science, Inc. 6630 Baltimore National Pike Baltimore, MD 21228 September 02, 2021

Account# 15354 Login# L545214

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on August 27, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab Laboratory Director

Lisa Luab

Enclosure(s)



ANALYTICAL REPORT

Account : 15354 Login No.: L545214

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.
- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead,
			Environmental Microbiology
State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and	Lab ID: 1042	Mold Analysis Laboratory license
	Regulation		·

Legend

< - Less than MDL - Method Detection Limit mg - Milligrams ppb - Parts per Billion > - Greater than ug - Micrograms NA - Not Applicable ppm - Parts per Million I - Liters m3 - Cubic Meters NS - Not Specified ppbv - ppb Volume LOQ - Limit of Quantitation kg - Kilograms ND - Not Detected ppmv - ppm Volume ft2 - Square Feet cm2 - Square Centimeters in2 - Square Inches ng - Nanograms



LABORATORY ANALYSIS REPORT

GALSON

Site East Syracuse, NY 13057 6601 Kirkville Road FAX: (315) 437-0571 www.sgsgalson.com (315) 432-5227

Login No. : L545214 Account No.: 15354 Phase Separation Science, Inc. : FRANCIS HAMMOND

: ACPS IAQ TESTING-4920002 Project No.

: 23-AUG-21 : 27-AUG-21 Date Sampled Date Received

Date Analyzed : 30-AUG-21 Report ID : 1262668

욘

ormaldehyde					
Sample ID	Lab ID	Time minutes	Total ug	Conc mg/m3	wdd
FH-CAFE	L545214-1	260	<0.4	<0.01	<0.01
FH-CAFE 2	L545214-2	260	<0.4	<0.01	<0.01
FH-HALL C106	L545214-3	258	<0.4	<0.01	<0.01
FH-E109 CLASS	L545214-4	254	<0.4	<0.01	<0.01
FH-MAIN GYM	L545214-5	253	<0.4	<0.01	<0.01
FH-AUDITORIUM	L545214-6	253	<0.4	<0.01	<0.01
FH-MAIN ADMIN	L545214-7	252	<0.4	<0.01	<0.01
FH-C127 CLASS	L545214-8	240	<0.4	<0.01	<0.01
FH-D108 CLASS	L545214-9	252	<0.4	<0.01	<0.01
FH-HALL 159	L545214-10	252	<0.4	<0.01	<0.01
FH-B229 HALLWAY	L545214-11	245	<0.4	<0.01	<0.01
FH-B205 CLASS	L545214-12	261	<0.4	<0.01	<0.01
FH-E210 CLASS	L545214-13	261	<0.4	<0.01	<0.01
FH-D211 CLASS	L545214-14	262	<0.4	<0.01	<0.01
FH-LIBRARY	L545214-15	239	<0.4	<0.01	<0.01

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Submitted by: JLL Approved by: MLN	Date : 02-SEP-21	Supervisor : MWJ
	mod. OSHA 1007; HPLC/UV	Assay 581
on: 0.4	om:	: Ass
Level of Quantitation: 0.4 ug	Analytical Method	Collection Media

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Version 1.000



LABORATORY FOOTNOTE REPORT

GALSON

East Syracuse, NY 13057 (315) 432-5227 6601 Kirkville Road FAX: (315) 437-0571 www.sgsgalson.com

Client Name : Phase Separation Science, Inc. Site : FRANCIS HAMMOND Project No. : ACPS IAQ TESTING-4920002

Login No. : L545214 Account No.: 15354 Date Sampled : 23-AUG-21 Date Received: 27-AUG-21 Date Analyzed: 30-AUG-21

L545214 (Report ID: 1262668):

Total ug corrected for a desorption efficiency of 96%. FORMALDEHYDE results have been corrected for the average background found on the media: 0.1178 ug for lot #4B21 (samples 1-15). SOPS: LC-SOP-4(23)

ID: 1262668): L545214 (Report

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Mean Recovery Accuracy Parameter

+/-12.1%

Formaldehyde

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Version 1.000

1545214

2108254

Hexavalent Chromium Process (e.g., welding Cal OSHA mod. OSHA 1007: TPLC/UV PD 48/72 Please indicate which OEL this data will be used for: mod. OSHA 1007: TPLC/UV PD 4588 mod. OSHA 1007: TPLC/UV | PD 5588 mod. OSHA 1007: TPLC/L/V PD 5387 mod. OSHA 1007: TPLC/UV PD 4511 mod. OSHA 1007: TPLC/UV | PD 4162 mod. OSHA 1007: TPLC/UV PD 4825 mod. OSHA 1007: TPLC/UV PD 5034 mod. OSHA 1007: TPLC/UV PD 5315 mod. OSHA 1007: TPLC/UV PD 5422 mod. OSHA 1007: TPLC/JUV PD 5043 Call for Credit Card Info. Samples submitted using the FreeSamplingBadgesTM Program Invoice To*: Phase Separation Science Email: invoicing@phaseonline.com Method Reference^A Other (specify): ACGIH TLV Phone No.: 410-747-8770 Credit Card: Card on File OSHA PEL MSHA Agalson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the CCC unless this box is checked: 🔽 Use method(s) listed on COC Sampled by: Analysis Requested* For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG): P.O. No. State samples were collected in (e.g., NY) Project: ACPS IAQ testing - 4920002 Formaldehyde Samples submitted using the FreePumpLoan™ Program ≶ Sample Units*: L, ml,min,in2,cm2,ft2 6630 Baltimore National Pike List description of industry or Process/interferences present in sampling area: Email address: reporting@phaseonline.com SGS GALSON New Client? Report To*: Phase Separation Science щi шi min Hi. min Ë. .⊑ Baltimore, MD 21228 Sample Volume Sample Time Sample Area* Email Results to : Amber Confer Phone No.*: 410-747-8770 260 258 253 253 252 Assay N581 Aldehyde Badge 252 260 254 Assay N581 Aldehyde Badge 240 Assay N581 Aldehyde Badge 252 Assay N581 Aldehyde Badge 245 Assay N581 Aldehyde Badge Assay N581 Aldehyde Badge Assay N581 Aldehyde Badge Assay N581 Adehyde Badge Assay N581 Aldehyde Badge Assay N581 Aldehyde Badge Assay N581 Aldehyde Badge Collection Medium Public grade school building Site Name: Francis Hammond Client Account No.*: Date Sampled 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 Comments (surcharge) 100% 150% 200% 32% 75% 50% % Sample Identification* (Maxmium of 20 Characters) 1Z2313E40166972748 3 Business Days 2 Business Days Next Day by Noon FH - B229 Hallway Standard 4 Business Days Next Day by 6pm Same Day Need Results By: Date: 08/27/21 Shipper:UPS Initials:MAK Prep:UNKNOMN FH - Main Admin FH - C127 Class FH - D108 Class FH - E109 Class FH - Auditorium FH - Main Gym FH - Hall C106 FH - Hall 159 FH - CAFE 2 FH - CAFE

Page 8 of 14

* Required fields, failure to camplete these fields may serult in a delay takeur samples being processed.

Samples received after 3pm will be considered as next day's business

Version 1.000

Time

Date

Print Name/Signature

3

Received by:

735

\$12577

Z

Time

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Print Name/Signature

Chain of Custody

Relinquished by : Relinquished by : ŏ

Page___

8/27

X:0.22

Michelle Krause Musesus

21092541

SGS GALSON	ALSON	New Client? F	Report To*:	Report To*: Phase Separation Science 6630 Baltimore National Pike Baltimore, MD 21228	sience anal Pike	Invoice To*	Phase Ser	Invoice To* : Phase Separation Science	900
6601 Kirkville Rd East Syracuse, NY 13 Tel: (315) 432-5227 888-432-LABS (5 www.sgsgalson.com	6601 Kirkville Rd East Syracuse, NY 13057 Tel: (315) 432-5227 888-432-LABS (5227) www.sgsgalson.com	Ē	Phone No.*: 410-747-8770 Cell No.: Email Results to : Amber Confer Email address: reporting@pha	Phone No.* : 410-747-8770 Cell No. : nail Results to : Amber Confer Email address: reporting@phaseonline.com	ne.com	Phone No.: Email: P.O. No.: Credit Card:	Phone No.: 410-747-8770 Email: invoicing@pha P.O. No.:	ne No.: 410-747-8770 Email: invoicing@phaseonline.com 3. No.: Card: Card on File Call for Credit Card Info.	t Card Info.
Need Results By:	(surcharge)		2	Samples submitted usir	Samples submitted using the FreePumpLoan TM Program		bmitted using the F	Samples submitted using the FreeSamplingBadges [™] Program	™ Program
Standard	┪	Site Name: Francis	Francis Hammond	Prc	Project: ACPS IAQ testing - 4920002	sting - 4920002 sampled by :	ed by :		
4 Business Days	35%	Comments :							
3 Business Days	20%								
2 Business Days	75%								
Next Day by 6pm	T	List description of indu	stry or Process/interfe	List description of industry or Process/interferences present in sampling area	ling arsa :	State samples were	Please indicate whie	Please indicate which OEL this data will be used for	be used for:
Next Day by Noon	150%	Public grade school building	shool building			VA	SHAPEL	J ACGIH ILV]Other (specify):	Cal OSHA
Sample Identification* (Maxmium of 20 Characters)	ation* aracters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*		Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
H - 6205 Class		08/23/21	Assay N581 Aldehyde Badge	26	min	Formaldehyde	Ē.	Fmod. OSHA 1007: TPLCAUV	PD 4092
H - E210 Class		08/23/21	Assay N581 Aldehyde Badge	261	min	Formaldehyde	u .	mod. OSHA 1007; TPLC/UV	PD 5080
H - D211 Class		08/23/21	Assay N581 Aldehyde Badge	_e 262	min	Formaldehyde	u	mod. OSHA 1007: TPLC/UV	PD 5598
H - Modia Center-LI brory	רומנמנא	08/23/21	Assay N581 Aldehyde Badge	- 239	min	Formaldehyde	u	mod. OSHA 1007; TPLC/UV	PD 5035
handsura			Assay N581 Aldehyde Badge	6	min	Formaldehyde	ш	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge	6	min	Formaldehyde	e .	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge	6	min	Formaldehyde		mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge	•	min	Formaldehyde		mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge	0	min	Formaldehyde		mod. OSHA 1007; TPLC/UV	
			Assay N581 Aldehyde Badge	6	min	Formaldehyde	-	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge	ø	min	Formaldehyde	п	mod. OSHA 1007: TPLC/UV	
AGalson Laboratories will	subsititute our	routine/preferred metho	od if it does not matcl	h the method listed on th	ne COC unless this box is	AGalson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: 🖊 Use method(s) listed on COC	listed on COC		
For metals analysis: if req	questing an analy	re with the option of a l	lower LOQ, please in	dicate if the lower LOQ is	s required (only available	For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):); ;		
For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite,	n(s) of silica need	led must be indicated (C	1	and/or Tridymite)*:					
Shain of Custody	Prir	Print Name/Signature		Date Time		Print Name/Signature	/Signature	Date	e Time
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Relinquished by:	3	3	<u> </u>		Received by:		7,000	128	1, 11)2
		*	Sample Sample squired fields, failur	Samples received after 3pm will be considered as next day's būšiness Is, failure to complete these fields may result in a delay in rour sample	will be considered as fields may result in a	S	being processed.	}	Page of
			Lage o	or / Report Kele	rence:T:Generale	d:U2-SFP-71 1U:34			

Page 9 of 14

Chain of Custody Form for Subcontracted Analyses

Page 1 of 1

Phase Separation Science, Inc	6630 Baltimore National Pike	Baltimore, MD 21228	Phone: (410) 747-8770	Fax: (410) 788-8723
Phase Separa	6630 Baltime	Baltimore, N	Phone: (410)	Fax: (410) 78

Project Location: Francis Hammond 21082541 Project Number: 4920002 W.O. No. :

Report To LOD: No

East Syracuse, NY 13057 6601 Kirkville Road

Samples Transferred To: SGS North America - NY

Old SGS Galson Labs. bsc Phone: 315-432-5227

For Questions or issues please contact: Amber Confer

Preservative NON Type of Container NONSC Method VARIOUS Formaldehyde (mod. OSHA 1007; HPLC/UV) Analyses Required Report Due On:09/03/21 05:00 Matrix Air Sampled 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 Sampled 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 08/23/21 Date 阿哥 FH-C127 Class H-B229 Hallway FH-Main Admin FH-E109 Class FH-Main Gym FH-Auditorium FH-B205 Class FH-E210 Class FH-E211 Class FH-Hall C106 FH-Hall 159 Sample ID FH-Library FH-Cafe FH-Cafe 2 21082541-010 21082541-004 21082541-005 21082541-006 21082541-008 21082541-011 21082541-012 21082541-013 21082541-015 21082541-002 21082541-007 21082541-009 21082541-014 21082541-003 Sample ID 21082541-001

Data Deliverables Required: COA

Send Report Attn: reporting@phaseonline.com Airbill No.:

Send InvoiceAttn: invoicing@phaseonline.com

Perform Q.C. on Sample

Condition Upon Receipt

Comments:

2	
Carrier:	
	Deceint .

	. •	ر بخ	
Samples Received By:	Samples Received By:	Page 7 of 7 me. Report Reference: 1 General By 10 % She 2 K 4 61.84 e M	Version 1.000
Time: Samples R	Time: Samples R	of Time. Report Reference: 1	Page 10 of 14
Je Compate:		Date: Page 7 o	
Samples Relinquished By: MCDC	Samples Relinquished By:	Samples Relinquished By:	

cle Kjours 8/27/21 1:1

Page 10 of 14



Case Narrative

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS IAQ Testing

PSS Project No.: 21082541

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Container label for COC sample 015 reads Library. Per client, logged in as Library.

21082541: Analyses associated with analyst code 4051 were performed by SGS North America - NY, 6601 Kirkville Road, East Syracuse, NY 13057 - NY 11626

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

21082541

SGS GALSON	ALSO	New Client? F	Report To*: Ph 66 10.*: Ba	Report To*: Phase Separation Science 6630 Baltimore National Pike Baltimore, MD 21228	cience onal Pike	Invoice To *	Phase Se	Invoice To*: Phase Separation Science	900
6601 Kirkville Rd East Syracuse, NY 13 Tel: (315) 432-5227 888-432-LABS (5	6601 Kirkville Rd East Syracuse, NY 13057 Tel: (315) 432-5227 888-432-LABS (5227) www.sqsqalson.com		Phone No.*:410-747-8770 Cell No.: Email Results to:Amber Confer	0-747-8770		Phone No.:	Phone No.: 410-747-8770 Email: invoicing@phi		
,		_	Email address: ret	Email address: <u>reporting@phaseonline.com</u>	ne.com		Card on File	Call for Credit Card Info.	t Card Info.
Need Results By:	(surcharge)		2	Samples submitted using the FreePumpLoan''' Program	ig the FreePumpLoan''''	_	mitted using the	Samples submitted using the FreeSamplingBadges''' Frogram	"Program
Standard	%0	Site Name: Francis	Francis Hammond	Prc	Project: ACPS IAQ testing - 4920002	sting - 4920002 sampled by :	d by:		
4 Business Days	35%	Comments:							
3 Business Days	20%	14							en e
2 Business Days	75%								
Next Day by 6pm	100%	List description of indu	ustry or Process/interfe	List description of industry or Process/interferences present in sampling area:	ing area :		lease indicate whi	Please indicate which OEL this data will be used for:	e used for:
Next Day by Noon	150%	Public grade school building	chool building			collected in (e.g., NY)	OSHA PEL OSHA MSHA	ACGIH TLV Other (specify):	Cal OSHA
Sample Identification* (Maxmium of 20 Characters)	ation* aracters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	l Analysis Requested*		<	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
FH - CAFE		08/23/21	Assay N581 Aldehyde Badge	260	min	Formaldehyde	-	mod. OSHA 1007: TPLC/UV	PD 4.672
FH - CAFE 2		08/23/21	Assay N581 Aldehyde Badge	260	min	Formaldehyde	L	mod. OSHA 1007: TPLC/UV	PD 5034
FH - Hall C106		08/23/21	Assay N581 Aldehyde Badge	258	min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD 5315
FH - E109 Class		08/23/21	Assay N581 Aldehyde Badge	254	min	Formaldehyde	L	mod. OSHA 1007: TPLC/UV	PD 5043
FH - Main Gym		08/23/21	Assay N581 Aldehyde Badge	253	min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD 5422
FH - Auditorium		08/23/21	Assay N581 Aldehyde Badge	253	min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD 4588
FH - Main Admin		08/23/21	Assay N581 Aldehyde Badge	252	min	Formaldehyde	_	mod. OSHA 1007: TPLC/UV	PD 5387
FH - C127 Class		08/23/21	Assay N581 Aldehyde Badge	240	min	Formaldehyde	-	mod. OSHA 1007: TPLC/UV	PD 4511
FH - D108 Class		08/23/21	Assay N581 Aldehyde Badge	252	min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD 4162
FH - Hall 159		08/23/21	Assay N581 Aldehyde Badge	252	min	Formaldehyde	-	mod. OSHA 1007: TPLC/UV	PD 5588
FH - B229 Hallway		08/23/21	Assay N581 Aldehyde Badge	245	min	Formaldehyde	u u	mod. OSHA 1007: TPLC/UV	PD 4825
^Galson Laboratories will	subsititute our	r routine/preferred meth	od if it does not match	the method listed on th	e COC unless this box is	AGalson Laboratories will substittute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: 🖊 Use method(s) listed on COC	sted on COC		
For metals analysis: if requ	uesting an anal	lyte with the option of a	lower LOO, please ind	licate if the lower LOQ is	required (only available	For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):			
For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:	(s) of silica nee	ded must be indicated (Quartz, Cristobalite, a	nd/or Tridymite)*:					
Chain of Custody	Pri	Print Name/Signature		Date Time		Print Name/Signature	Signature	Date	Time
Relinquished by :	S	unt	\$10	Sirsn M35	Received by :	BE H	Con		
Relinquished by:	3	となって	5		Received by:				
		*	Sample Sample squired fields, failur	Samples received after 3pm will be considered as next day's business Is, failure to complete these fields may result in a delay in your sample	will be considered as ields may result in a	Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed.	processed.	Pa	Page of
				Pag	Page 12 of 14	Version 1.000	000		

21097541

SGS GALSON	ALSON	New Client? F	Report To*:	Report To*: Phase Separation Science 6630 Baltimore National Pike Baltimore, MD 21228	cience onal Pike 8	Invoice To*	: Phase Se	Invoice To*: Phase Separation Science	nce
6601 Kirkville Rd East Syracuse, NY 13 Tel: (315) 432-5227 888-432-LABS (5 www.sgsgalson.com	6601 Kirkville Rd East Syracuse, NY 13057 Tel: (315) 432-5227 888-432-LABS (5227) www.sgsgalson.com		Phone No.* :410-747-8770 Cell No.: Email Results to :Amber Confer Email address:reporting@pha	Phone No.*:410-747-8770 Cell No.: nail Results to:Amber Confer Email address:reporting@phaseonline.com	ne.com	Phone No.: Email: P.O. No.: Credit Card:	Phone No.: 410-747-8770 Email: invoicing@phz P.O. No.:	ne No.: 410-747-8770 Email: invoicing@phaseonline.com D. No.: Card: Card on File Call for Credit Card Info.	it Card Info.
			2	Samples submitted usir	Samples submitted using the FreePumpLoan [™] Program		bmitted using the	Samples submitted using the FreeSamplingBadges [™] Program	m Program
Need Results By:	(surcharge)							-	
Standard	1	Site Name: Franci	Francis Hammond	Pro	Project: ACPS IAQ testing - 4920002	sting - 4920002 sampled by:	ed by :		
4 Business Days	35% C	Comments:							
3 Business Days	20%								
2 Business Days	75%								
☐ Next Day by 6pm	100%	ist description of ind	ustry or Process/interfe	List description of industry or Process/interferences present in sampling area:	ling area:		lease indicate wh	Please indicate which OEL this data will be used for:	be used for:
Next Day by Noon	150%	Public grade s	Public grade school building			collected in (e.g., NY)	OSHA PEL	ACGIH TLV Other (specify):	Cal OSHA
Sample Identification* (Maxmium of 20 Characters)	cation*	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	*peq	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
FH - 82 05 Class		08/23/21	Assay N581 Aldehyde Badge	261	min	Formaldehyde	L.	Fmod. OSHA 1007: TPLC/UV	PD 4092
FH - E210 Class		08/23/21	Assay N581 Aldehyde Badge	261	min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD 5080
FH - D211 Class		08/23/21	Assay N581 Aldehyde Badge	262	min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD 5598
FH - Media Center Ly brary	Library	08/23/21	Assay N581 Aldehyde Badge	239	min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD 5035
himburo	,		Assay N581 Aldehyde Badge		min	Formaldehyde		mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde	-	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde	_	mod, OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min .	Formaldehyde	_	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde		mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde	_	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde	_	mod, OSHA 1007: TPLC/UV	
^Galson Laboratories will subsititute our routine/preferred method if it does not match	l subsititute our ro	outine/preferred meth	nod if it does not match	the method listed on th	e COC unless this box is	the method listed on the COC unless this box is checked: 🗾 Use method(s) listed on COC	isted on COC		
For metals analysis: if rec	questing an analyte	e with the option of a	lower LOQ, please indi	cate if the lower LOQ is	required (only available	For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):	-		
For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:	n(s) of silica neede	d must be indicated	Quartz, Cristobalite, an	id/or Tridymite)* :					
Chain of Custody	Print	Print Name/Signature	u	Date Time		Print Name/Signature	Signature	Date	Time
Relinquished by:	してると	,	क्राफ	SELI 118	Received by:	Sh ye	2		
Relinquished by:	Bee	3			Received by:				
		*	Samples equired fields, failure	received after 3pm as to complete these f	received after 3pm will be considered as next day's business to complete these fields may result in a delay in your sample	Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed.	g processed.	Pa	Page of
				Paç	Page 13 of 14	Version 1.000	000		



Sample Receipt Checklist

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS IAQ Testing PSS Project No.: 21082541

Client Name Total Environmental Concepts - Lorto Received By Amber Confer

Delivered By Client

Tracking No Not Applicable

Logged In By Amber Confer

Shipping Container(s)

No. of Coolers 0

Ice N/A

Custody Seal(s) Intact? N/A Temp (deg C)

Seal(s) Signed / Dated?

N/A Temp Blank Present No

Documentation Sampler Name <u>Not Provided</u>

COC agrees with sample labels?

No

N/A

Chain of Custody Yes

Sample Container Custody Seal(s) Intact? Not Applicable

Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable

Intact? Yes

Labeled and Labels Legible? Yes

Holding Time Total No. of Samples Received 15

All Samples Received Within Holding Time(s)? Yes Total No. of Containers Received 15

Preservation

Total Metals (pH<2)N/A Dissolved Metals, filtered within 15 minutes of collection (pH<2)N/A Orthophosphorus, filtered within 15 minutes of collection N/A Cyanides (pH>12)N/A Sulfide (e<Ha) N/A TOC, DOC (field filtered), COD, Phenols (pH<2)N/A TOX, TKN, NH3, Total Phos (pH<2)N/A VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)N/A Do VOA vials have zero headspace? N/A 624 VOC (Rcvd at least one unpreserved VOA vial) N/A 524 VOC (Rcvd with trip blanks) (pH<2)N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Container label for COC sample 015 reads Library. Per client, logged in as Library.

Samples Inspected/Checklist Completed By:

Amber Confer

Date: 08/26/2021

PM Review and Approval:

Lynn Jackson
Page 14 of 14

Date: 08/26/2021

Version 1.000

SGS	GALSOI	New Client	Report To* :				Invoice T	·o*:				
000	JAL3UI	Client Account	No.*:									
								-				
6601 Kirkvi East Syracı	ille Rd use, NY 13057		Phone No.* :				Phone I	No.:				
Tel: (315) 4	132-5227						Em	ail :				
888-43	32-LABS (5227)							lo. :				
www.sgsga	alson.com		For all addresses					rd : Card on Fi		Call for Cre		
Need Results By:	(surcharge)]		Samples submitte	ed usin	g the FreePumpLoan [™]	Program Samples	submitted using th	e FreeSam	plingBadge	.s™ Progra	am
Standard	0%	Site Name :			Pro	ject :	Sam	pled by :				
4 Business Days	35%	Comments :										
3 Business Days	50%											
2 Business Days	75%											
Next Day by 6pm	100%	List description of ind	ustry or Process/interfer	ences present in	sampli	ing area :	State samples were	Please indicate w	hich OEL t	his data wil	l be used	for:
Next Day by Noon	150%]					collected in (e.g., NY)	OSHA PEL	ACGI	H TLV	Cal	OSHA
Same Day	200%	MSHA Other (specify):										
Sample Identifi (Maxmium of 20 C		Date Sampled	Collection Medium	Sample Volu Sample Tin Sample Are	ne	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requ	ested*	Method F	Reference^	Process (ent Chromium (e.g., welding painting, etc.)*
	<u></u>											
^Galson Laboratories wi	II subsititute ou	r routine/preferred meth	nod if it does not match	the method listed	d on the	e COC unless this box is	s checked: Use method(s) listed on COC			,	
For metals analysis: if re	questing an ana	lyte with the option of a	lower LOQ, please indi	cate if the lower l	LOQ is	required (only available	e for certain analytes - see SA	AG):				
For crystalline silica: form	m(s) of silica nee	eded must be indicated	(Quartz, Cristobalite, an	d/or Tridymite)*	:							
Chain of Custody	Pr	int Name/Signature		Date T	ïme		Print Nan	ne/Signature		Da	te	Time
Relinquished by:						Received by :						
Relinquished by:						Received by :						
		* R					s next day's business delay in your samples be	ing processed.		F	age	of

SGS	ALSOI	New Client	Report To* :					Invoice To	o*:				
343	ALSUI	Client Account											
		Client Account											
6601 Kirkvi	lle Rd use, NY 13057		 Phone No.* :					Phone N	 lo.:				
Tel: (315) 4	32-5227		Cell No. :					Phone No.: Email :					
888-43	Tel: (315) 432-5227							P.O. N	0.:				
www.sgsga	alson.com		Email address:						rd : Card on Fi	le 🗆	Call for Cred	dit Card Ir	nfo.
			_					_					
Need Results By:	(surcharge)			Samples subn	nitted usin	g the FreePumpLoan [™]	Program	Samples s	submitted using th	e FreeSam	plingBadge	s™ Progra	am
Standard	0%	Site Name :			Pro	ject :		Samp	oled by :				
4 Business Days	35%	Comments:											
3 Business Days	50%												
2 Business Days	75%												
Next Day by 6pm	100%	List description of ind	ustry or Process/interfer	ences presen	t in sampli	ing area :	State samples w		Please indicate w				
Next Day by Noon	150%						collected in (e.g.	, NY)	OSHA PEL	_		Cal (OSHA
Same Day	200%								MSHA	Other (specify):		
Sample Identifi (Maxmium of 20 Cl		Date Sampled	Collection Medium	An	alysis Reque	ested*	Method F	Reference^	Process (ent Chromium (e.g., welding painting, etc.)*			
^Galson Laboratories wil	II subsititute ou	r routine/preferred meth	I nod if it does not match	the method lis	sted on the	e COC unless this box is	s checked: U	se method(s	s) listed on COC				
For metals analysis: if re-	questing an ana	lyte with the option of a	lower LOQ, please indi	cate if the low	ver LOQ is	required (only availabl	e for certain analy	rtes - see SA	G):				
For crystalline silica: forr	n(s) of silica nee	eded must be indicated	(Quartz, Cristobalite, an	d/or Tridymite	e)*:								
Chain of Custody	Pr	int Name/Signature		Date	Time			Print Nam	e/Signature		Da	te	Time
Relinquished by :		-				Received by :							
Relinquished by:						Received by :							
	Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page of												

Appendix E: 4-PCH Analytical Results



Certificate of Analysis

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS IAQ Testing

PSS Project No.: 21082540

September 3, 2021

Karl Ford
Total Environmental Concepts - Lorton
8382 Terminal Road, Suite B
Lorton, VA 22079

Reference: PSS Project No: 21082540

Project Name: ACPS IAQ Testing Project Location: Francis Hammond

Project ID.: 4920002



Dear Karl Ford:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **21082540**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 29, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager





Explanation of Qualifiers

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS IAQ Testing

PSS Project No.: 21082540

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/25/2021 at 05:35 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21082540-001	FH-Cafe	AIR	08/23/21 00:00
21082540-002	FH-Cafe 2	AIR	08/23/21 00:00
21082540-003	FH-Hall C106	AIR	08/23/21 00:00
21082540-004	FH-E109 Class	AIR	08/23/21 00:00
21082540-005	FH-Main Gym	AIR	08/23/21 00:00
21082540-006	FH-Auditorium	AIR	08/23/21 00:00
21082540-007	FH-Main Admin	AIR	08/23/21 00:00
21082540-008	FH-C127 Class	AIR	08/23/21 00:00
21082540-009	FH-D108 Class	AIR	08/23/21 00:00
21082540-010	FH-Hall 159	AIR	08/23/21 00:00
21082540-011	FH-B229 Hallway	AIR	08/23/21 00:00
21082540-012	FH-B205 Class	AIR	08/23/21 00:00
21082540-013	FH-E210 Class	AIR	08/23/21 00:00
21082540-014	FH-D211 Class	AIR	08/23/21 00:00
21082540-015	FH-Library	AIR	08/23/21 00:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.



Explanation of Qualifiers

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

SCIENCE

Project Name: ACPS IAQ Testing

PSS Project No.: 21082540

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156

State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015



Ms. Amber Confer Phase Separation Science, Inc. 6630 Baltimore National Pike Baltimore, MD 21228 September 03, 2021

Account# 15354 Login# L545245

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on August 27, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab Laboratory Director

Lisa Luab

Enclosure(s)



ANALYTICAL REPORT

Account : 15354 Login No. : L545245

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention
 only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not
 exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized
 alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the
 fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.
- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of
 significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the
 final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the
 one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditation/Recognition

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead,
			Environmental Microbiology
State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and	Lab ID: 1042	Mold Analysis Laboratory license
	Regulation		

Lab ID#

Legend

National/International

< - Less than MDL - Method Detection Limit ppb - Parts per Billion mg - Milligrams > - Greater than ug - Micrograms NA - Not Applicable ppm - Parts per Million I - Liters m3 - Cubic Meters NS - Not Specified ppbv - ppb Volume LOQ - Limit of Quantitation kg - Kilograms ND - Not Detected ppmv - ppm Volume ft2 - Square Feet cm2 - Square Centimeters ng - Nanograms in2 - Square Inches

Program/Sector



LABORATORY ANALYSIS REPORT

GALSON

6601 Kirkville Road
East Syracuse, NY 13057

(315) 432-5227 FAX: (315) 437-0571 www.sqsqalson.com Client : Phase Separation Science, Inc. Account No.: 15354 Site : FRANCIS HAMMOND Login No. : L545245

Project No. : ACPS IAQ TESTING-4920002

Date Sampled : 23-AUG-21 Date Analyzed : 30-AUG-21 - 31-AUG-21

Date Received : 27-AUG-21 Report ID : 1262694

4-Phenylcyclohexene (4PCH low LOQ)

		Air Vol	Front	Back	Total	Conc	ppm
Sample ID	<u>Lab ID</u>	liter	ug	ug	<u>uq</u>	mq/m3	
FH-CAFE	L545245-1	52	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-CAFE 2	L545245-2	51.8	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-HALL C106	L545245-3	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-E109 CLASS	L545245-4	50.8	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-MAIN GYM	L545245-5	50.6	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-AUDITORIUM	L545245-6	50.6	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-MAIN ADMIN	L545245-7	50.4	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-C127 CLASS	L545245-8	48	<0.2	<0.2	<0.2	<0.004	<0.0007
FH-D108 CLASS	L545245-9	50.4	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-HALL 159	L545245-10	50.4	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-B229 HALLWAY	L545245-11	49	<0.2	<0.2	<0.2	<0.004	<0.0007
FH-B205 CLASS	L545245-12	52.2	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-E210 CLASS	L545245-13	53	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-D211 CLASS	L545245-14	52.4	<0.2	<0.2	<0.2	<0.004	<0.0006
FH-LIBRARY	L545245-15	47.8	<0.2	<0.2	<0.2	<0.004	<0.0007

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 0.2 ug Submitted by: ECB Approved by: MLN

Analytical Method : mod. NIOSH 1501; GC/PID Date : 03-SEP-21

Collection Media : 226-01 Supervisor : KAG





GALSON

Client Name : Phase Separation Science, Inc.

Site : FRANCIS HAMMOND

Project No. : ACPS IAQ TESTING-4920002

Date Sampled: 23-AUG-21 Account No.: 15354
Date Received: 27-AUG-21 Login No.: L545245

Date Analyzed: 30-AUG-21 - 31-AUG-21

L545245 (Report ID: 1262694):

6601 Kirkville Road

FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057 (315) 432-5227

Total ug corrected for a desorption efficiency of 97%. SOPs: GC-SOP-16(26), GC-SOP-8(27), GC-SOP-12(20)

L545245 (Report ID: 1262694):

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
4-Phenylcyclohexene (4PCH low LOQ)	+/-18%	88.2%

21082540 1545 245 New Client? Report To*: Phase Separation Science Invoice To*: Phase Separation Science SGS GALSON 6630 Baltimore National Pike Baltimore, MD 21228 Rient Account No.*: 1Z2313E40166972748 Date: 08/27/21 Phone No.: 410-747-8770 Phone No.*: 410-747-8770 Shipper:UPS Email: invoicing@phaseonline.com Initials:MAK Cell No.: P.O. No.: Email Results to: Amber Confer. Credit Card : Card on File Call for Credit Card Info. Prep:UNKNOWN Email address: reporting@phaseonline.com Samples submitted using the FreeSamplingBadges™ Program Samples submitted using the FreePumpLoan™ Program MOON Regults By: (surcharge) Project: ACPS IAQ testing - 4920002 Sampled by: Site Name: Fruis S Hammond 0% Standard 35% Comments: 4 Rusiness Days 50% 3 Business Days 75% Please indicate which OEL this data will be used for: 2 Business Days State samples were List description of industry or Process/interferences present in sampling area: OSHA PEL ACGIH TLV Cal OSHA 100% collected in (e.g., NY) Next Day by 6pm Other (specify): 150% ☐ MSHA Next Day by Noon Public grade school VA 200% Hexavalent Chromium Same Day Sample Volume Sample Units*: Method Reference/ Process (e.g., welding Analysis Requested* **Collection Medium** Sample Time Sample Identification* L. ml.min.in2.cm2,ft2 plating, painting, etc.)* **Date Sampled** Sample Area* (Maxmium of 20 Characters) mod. NIOSH 1501 4-Phenylcyclohexene 52.0 Sm Charcoal tubes / 226-01 08/23/21 FH - CAFE mod, NIOSH 1501 4-Phenylcyclohexene l51.8 Sm Charcoal tubes / 226-01 08/23/21 FH - CAFE 2 mod. NIOSH 1501 4-Phenylcyclohexene 51.6 Sm Charcoal tubes / 226-01 08/23/21 FH - Hall C106 mod, NIOSH 1501 4-Phenylcyclohexene 50.8 Sm Charcoal tubes / 226-01 08/23/21 FH - E109 Class mod. NIOSH 1501 4-Phenylcyclohexene 50.6 Sm Charcoal tubes / 226-01 08/23/21 FH - Main Gym mod, NIOSH 1501 4-Phenylcyclohexene Sm Charcoal tubes / 226-01 50.6 08/23/21 FH - Auditorium mod, NIOSH 1501 4-Phenylcyclohexene 50.4 Sm Charcoal tubes / 226-01 08/23/21 FH - Main Admin mod, NIOSH 1501 4-Phenylcyclohexene 48.0 08/23/21 Sm Charcoal tubes / 226-01 FH - C127 Class mod, NIOSH 1501 4-Phenylcyclohexene 50.4 Sm Charcoal tubes / 226-01 08/23/21 FH - D108 Class mod, NIOSH 1501 4-Phenylcyclohexene Sm Charcoal tubes / 226-01 50.4 08/23/21 FH - Hall 159 mod. NIOSH 1501 4-Phenylcyclohexene 49.0 Sm Charcoal tubes / 226-01 08/23/21 FH - B229 Hallway *AGalson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG): For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*: Time Date Print Name/Signature Time Date Print Name/Signature Chain of Custody 1735 Received by: hent Received by Michelle Krause Michelle Krausi Relinquished by: 1000 Relinguished by Samples received after 3pm will be considered as next day's business

21082540

922		New Client?	Report To* : Pha	ase Separation So 30 Baltimore Natio	cience	Invoice To*: Phase Separation Science					
SGS G	ALSON		' ੂਰਨੀ	timore, MD 21228							
•		Client Account I	No.*:								
6601 Kirkvill			- Phone No.* : 410	747 9770		Phone N	lo.: 410-747-87	770			
East Syracus Tel: (315) 43	se, NY 13057 32-5227		Cell No. :	-141-0110		Email: invoicing@phaseonline.com					
	2-LABS (5227)	F	Email Results to : Am	her Confer		P.O. No. :					
www.sgsga	Ison.com	•		orting@phaseonlir	ne.com	Credit Car	rd : Card on Fi	ile Call for Cre	dit Card Info.		
									. TV 0		
Need Results By:	(surcharge)				ng the FreePumpLoan™		submitted using th	ne FreeSamplingBadg	3s™ Program		
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4 Business Days	35%	Comments :									
3 Business Days	50%										
2 Business Days	75%					1	T				
Next Day by 6pm	100%	List description of ind	lustry or Process/interfe	rences present in samp	ling area:	State samples were collected in (e.g., NY)		which OEL this data wi	Cal OSHA		
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Same Day	200%			Sample Volume		V//			Hexavalent Chromium		
Sample Identifi (Maxmium of 20 Cl		Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requ	ested*	Method Reference^	Process (e.g., welding plating, painting, etc.)*		
FH - B205 CIASS		08/23/21	Sm Charcoal tubes / 226-01	5 2 .2.	L	4-Phenylcyclohexene		mod, NIOSH 1501			
FH - E210 Class		08/23/21	Sm Charcoal tubes / 226-01	53.0	L	4-Phenylcyclohexene		mod, NIOSH 150			
FH - D211 Class		08/23/21	Sm Charcoal tubes / 226-01	52.4	L	4-Phenylcyclohexene		mod. NIOSH 150	l		
FH - Media Genter	Library	08/23/21	Sm Charcoal tubes / 226-01	47.8	L	4-Phenylcyclohexene		mod. NIOSH 150	-		
अरशस्त्र			Sm Charcoal tubes / 226-01			4-Phenylcyclohexene		mod. NIOSH 1501]		
			Sm Charcoal tubes / 226-01			4-Phenylcyclohexene		mod. NIOSH 1501			
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			Sm Charcoal tubes / 226-01			4-Phenylcyclohexene		mod. NIOSH 1501			
			Sm Charcoal tubes / 226-01			4-Phenylcyclohexene		mod. NIOSH 1501			
			Sm Charcoal tubes / 226-01			4-Phenylcyclohexene		mod, NIOSH 1501			
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	98bbb.	s routing/professed mai		the method listed on t	he COC unless this box	is checked: V Use method(s) listed on COC	•	•		
*Galson Laboratories wi	ili subsititute ou	r routine/preterred me	a lower LOO places inc	licate if the lower I OO i	s required (only availab	le for certain analytes - see SA	AG):		:		
					5.0quoc (0)		1		-		
For crystalline silica: for				Date Time		Print Nan	ne/Signature	D	ate Time		
Chain of Custody		rint Name/Signature		25/21/1739	Received by:	aun	BH	,			
Relinquished by:	Cher	1/2/1/2	\	00,-3,-0	Received by :	Michelle Vance	rn n_n	82	7/21 1117		
reinduished by .	UP CO		Sample	s received after 3pm	will be considered a	s next day's business	I	استياساندان ال	Page		
1		* 1	Required fields, failu	e-to complete these	fields may result in a	delay in your samples be	ing processed.	,	rayeOI		



Chain of Custody Form for Subcontracted Analyses

Page 1 of 1

Phase Separation Science, Inc 6630 Baltimore National Pike Baltimore, MD 21228 Phone: (410) 747-8770 Fax: (410) 788-8723 For Questions or issues please contact: Amber Confer			Proj Proj Rep	ect Number : ort To LOD		Samples Transferred To: SGS North America - NY 6601 Kirkville Road East Syracuse, NY 1305 Old SGS Galson Labs. b Phone: 315-432-5227		7
Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21082540-001	FH-Cafe	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-002	FH-Cafe 2	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-003	FH-Hall C106	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-004	FH-E109 Class	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-005	FH-Main Gym	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-006	FH-Auditorium	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-007	FH-Main Admin	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-008	FH-C127 Class	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-009	FH-D108 Class	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-010	FH-Hall 159	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-011	FH-B229 Hallway	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-012	FH-B205 Class	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-013	FH-E210 Class	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-014	FH-D211 Class	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082540-015	FH-Library	08/23/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
Send Repor	rables Required: t Attn: reporting@ ceipt:	phaseonline.co	uf (- 10	Perform Q.C. Send In		nvoicing@phaseor	nline.com
Samples Relinquish	ed By: Oly Co	1 Date:	Ti	ime:	Samples Received By :			
Samples Relinquishe	ed By:	Date :	T	ime :	Samples Received By:			
Samples Relinquishe	ed By:	Date:	Page 7 of 7	Report I	Reference:1 Generated 03-6EP-12 Samples Received By:	108:13 rause Michelle	Kiame &	27/2011/7



Case Narrative

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS IAQ Testing

PSS Project No.: 21082540

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Container label for COC sample 015 reads Library. Per client, logged in as Library.

21082540: Analyses associated with analyst code 4051 were performed by SGS North America - NY, 6601 Kirkville Road, East Syracuse, NY 13057 - NY 11626

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

21082540

ľ		GALSOI	New Client	6	630 Balti	paration Somore Nation	onal Pike	Invoice To	o*: <u>Phase S</u>	eparatio	n Scie	nce		
	Tel: (315 888-	acuse, NY 13057) 432-5227 432-LABS (5227)		Phone No.* : 4 Cell No. : Email Results to : /				Ema		phaseonli	ne.com			
	www.sgs	sgalson.com		Email address: r	eporting@	phaseonlin	ne.com	Credit Car	d : Card on Fi	le Ca	all for Cred	it Card In	fo.	
	Need Results By:	(surcharge)	/			ubmitted usir	ng the FreePumpLoan™	Program Samples s	ubmitted using th	e FreeSampl	ingBadges	™ Progra	m	
	Standar		Site Name : Frun	cis Hamm	bne	Pro	oject: ACPS IAQ te	testing - 4920002 Sampled by :						
	4 Business Day		Comments:											
	3 Business Day 2 Business Day													
	Next Day by 6pm		List description of ind	ustry or Process/inte	ferences nre	sent in sampl	ling area :	State samples were	Places indicate w	high OEL shi	الأندر معمله م	ha		
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	Same Day	Same Day 200% Public grade school							MSHA	Other (sp	pecify):			
	Sample Identification* (Maxmium of 20 Characters) Date Sampled Collection				n Sam	ole Volume ople Time ople Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Reque	sted*	Method Reference mod. NIOSH 15			.g., welding	
FH ·	- CAFE		08/23/21	Sm Charcoal tubes / 226-	01 52.0		L	4-Phenylcyclohexene		mod. NIO	SH 1501			
FH	- CAFE 2		08/23/21	Sm Charcoal tubes / 226-	01 51.8		L	4-Phenylcyclohexene	mod. NIOS	SH 1501				
FH ·	- Hall C106		08/23/21	Sm Charcoal tubes / 226-	01 51.6		L	4-Phenylcyclohexene		SH 1501	January Control of the Control of th			
FH ·	- E109 Class		08/23/21	Sm Charcoal tubes / 226-	50.8		L	4-Phenylcyclohexene		mod. NIOS	SH 1501			
FH ·	- Main Gym		08/23/21	Sm Charcoal tubes / 226-	50.6		L	4-Phenylcyclohexene		mod. NIOS	SH 1501			
FH -	- Auditorium		08/23/21	Sm Charcoal tubes / 226-	50.6		L	4-Phenylcyclohexene		mod. NIOS	SH 1501			
FH -	- Main Admin		08/23/21	Sm Charcoal tubes / 226-	50.4		L	4-Phenylcyclohexene		mod. NIOS	SH 1501			
FH -	- C127 Class		08/23/21	Sm Charcoal tubes / 226-	01 48.0		L	4-Phenylcyclohexene		mod. NIOS	SH 1501			
FH -	- D108 Class		08/23/21	Sm Charcoal tubes / 226-	50.4		L	4-Phenylcyclohexene		mod. NIOS	H 1501			
FH -	· Hall 159		08/23/21	Sm Charcoal tubes / 226-	50.4		L	4-Phenylcyclohexene		mod. NIOS	SH 1501			
FH -	B229 Hallway	/	08/23/21	Sm Charcoal tubes / 226-	1 49.0		L	4-Phenylcyclohexene		mod. NIOS	SH 1501	***************************************		
^Ga	Ison Laboratories v	vill subsititute our	routine/preferred meth	od if it does not mate	h the metho	d listed on the	e COC unless this box is	checked: Use method(s)	listed on COC			-		
For	metals analysis: if r	equesting an analy	te with the option of a	lower LOQ, please in	dicate if the	lower LOQ is	required (only available	for certain analytes - see SAG	i):			***************************************		
For	For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:													
-	n of Custody		nt Name/Signature		Date	Time		Print Name	/Signature		Date	,	Time	
	quished by :	Che	nt		25M	1285		aren	5			\Box		
Relin	quished by :	aven	1 Com			<u></u>	Received by :							
	Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page of 2													

21082540

	SGS e	ALSON	New Client	660	30 Baltim	aration Solore Nation	nal Pike	Invoice To	o*: <u>Phase S</u>	eparation So	cience			
Tel: (315) 432-5227 Cel 888-432-LABS (5227) Email Resu					P.O. No.: Credit Card on File Call for Credit Card In									
Need Results By: (surcharge)											ram			
V	Standard	0%	Site Name : - Co	uits Hamn	ond	Pro	oject : ACPS IAQ te	sting - 4920002 Samp	oled by :					
	4 Business Days	35%	Comments :											
	3 Business Days	50%												
	2 Business Days	75%						I						
片	Next Day by 6pm Next Day by Noon	100%	List description of ind	lustry or Process/interfe	rences prese	ent in sampl	ing area :	State samples were collected in (e.g., NY)	Please indicate w	which OEL this data water of the control of the con		d for:		
H	Same Day	200%	Public grade s	school		VA	MSHA	Other (specify):						
Sample Identification* Date Sampled Collection (Maxmium of 20 Characters)					Sampl	e Volume le Time le Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Reque	Analysis Requested*		^ Process	lent Chromium (e.g., welding painting, etc.)*		
FH	- B205 Class		08/23/21	Sm Charcoal tubes / 226-01	5 2 .2.		L	4-Phenylcyclohexene		mod. NIOSH 150)1			
FH	- E210 Class		08/23/21	Sm Charcoal tubes / 226-01	53.0		L	4-Phenylcyclohexene		mod. NIOSH 150)1			
FH	- D211 Class		08/23/21	Sm Charcoal tubes / 226-01	52.4		L	4-Phenylcyclohexene		mod. NIOSH 150)1			
FH	- Media Center	Library	08/23/21	Sm Charcoal tubes / 226-01	47.8		L	4-Phenylcyclohexene		mod. NIOSH 150)1			
	02 8120121			Sm Charcoal tubes / 226-01				4-Phenylcyclohexene		mod. NIOSH 150	1			
				Sm Charcoal tubes / 226-01				4-Phenylcyclohexene		mod. NIOSH 150	1			
				Sm Charcoal tubes / 226-01				4-Phenylcyclohexene		mod. NIOSH 150	1			
				Sm Charcoal tubes / 226-01				4-Phenylcyclohexene		mod. NIOSH 150	1			
				Sm Charcoal tubes / 226-01				4-Phenylcyclohexene		mod. NIOSH 150	1			
				Sm Charcoal tubes / 226-01				4-Phenylcyclohexene		mod. NIOSH 150	1			
				Sm Charcoal tubes / 226-01				4-Phenylcyclohexene		mod, NIOSH 150	1			
^G	alson Laboratories will	subsititute our	routine/preferred meth	nod if it does not match	the method	listed on the	e COC unless this box is	checked: 🗸 Use method(s) listed on COC					
Foi	metals analysis: if req	uesting an analy	rte with the option of a	lower LOQ, please indi	cate if the lo	ower LOQ is	required (only available	e for certain analytes - see SA	G):					
Foi	For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:													
Cha	in of Custody	Prin	nt Name/Signature		Date	Time		Print Name	e/Signature		Date	Time		
	nquished by :	Clien	+	87	sin	1735		au 9	5					
Reli	nquished by :	aren	- rum				Received by :							
		Samples received after 3pm will be considered as next day's business * Required fields failure to complete these fields may result in a delay in your samples being processed. Page 7—of 7												



Sample Receipt Checklist

6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com

Project Name: ACPS IAQ Testing PSS Project No.: 21082540

Client Name Total Environmental Concepts - Lort Received By Amber Confer

Delivered By Client

Tracking No Not Applicable

Logged In By Amber Confer

Shipping Container(s)

No. of Coolers 0

Ice N/A

Custody Seal(s) Intact? N/A Temp (deg C)

Seal(s) Signed / Dated?

N/A Temp Blank Present No

Documentation Sampler Name <u>Not Provided</u>

COC agrees with sample labels?

No

N/A

Chain of Custody Yes

Sample Container Custody Seal(s) Intact? Not Applicable

Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable

Intact? Yes

Labeled and Labels Legible? Yes

Holding Time Total No. of Samples Received 15

All Samples Received Within Holding Time(s)? Yes Total No. of Containers Received 15

Preservation

Total Metals (pH<2)N/A Dissolved Metals, filtered within 15 minutes of collection (pH<2)N/A Orthophosphorus, filtered within 15 minutes of collection N/A Cyanides (pH>12)N/A Sulfide (pH>9)N/A TOC, DOC (field filtered), COD, Phenols N/A (pH<2)TOX, TKN, NH3, Total Phos (pH<2)N/A VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)N/A Do VOA vials have zero headspace? N/A 624 VOC (Rcvd at least one unpreserved VOA vial) N/A 524 VOC (Rcvd with trip blanks) (pH<2)N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Container label for COC sample 015 reads Library. Per client, logged in as Library.

Samples Inspected/Checklist Completed By:	Outer I longer	Date:	08/26/2021
	Amber Confer		

PM Review and Approval:

Lynn Jackson
Page 14 of 14

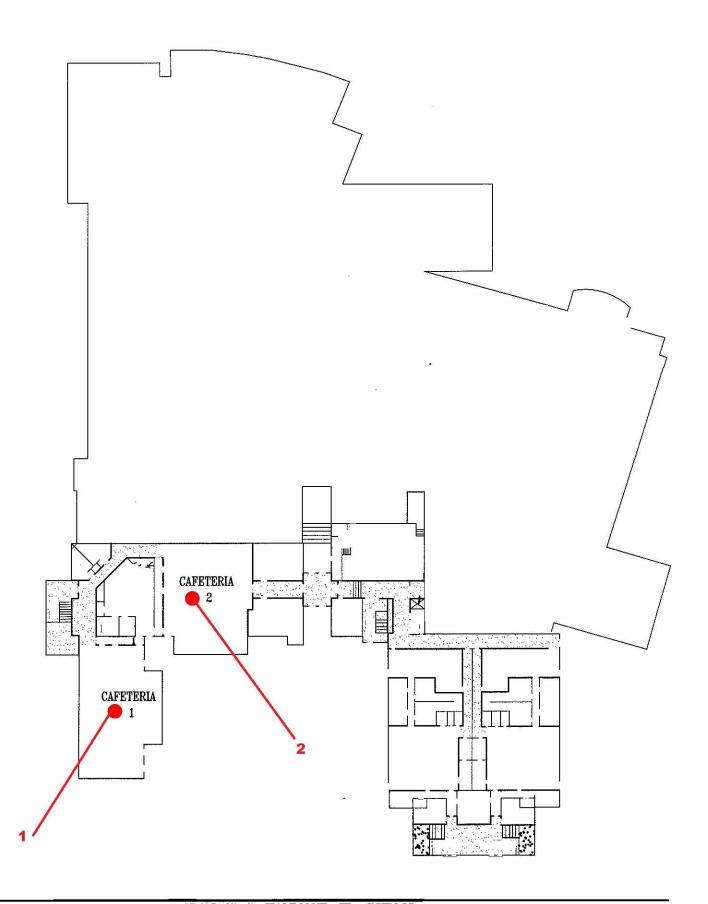
Date: 08/26/2021

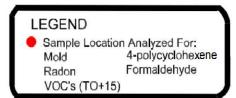
Version 1.000

SGS	ALSOI	New Client	Report To* :					Invoice To	o*:				
343	ALSUI	Client Account											
		Client Account											
6601 Kirkvi	lle Rd use, NY 13057		 Phone No.* :					Phone N	 lo.:				
Tel: (315) 4	32-5227		Cell No. :					Phone No.: Email :					
888-43	Tel: (315) 432-5227							P.O. N	0.:				
www.sgsga	alson.com		Email address:						rd : Card on Fi	le 🗆	Call for Cred	dit Card Ir	nfo.
			_					_					
Need Results By:	(surcharge)			Samples subn	nitted usin	g the FreePumpLoan [™]	Program	Samples s	submitted using th	e FreeSam	plingBadge	s™ Progra	am
Standard	0%	Site Name :			Pro	ject :		Samp	oled by :				
4 Business Days	35%	Comments:											
3 Business Days	50%												
2 Business Days	75%												
Next Day by 6pm	100%	List description of ind	ustry or Process/interfer	ences presen	t in sampli	ing area :	State samples w		Please indicate w				
Next Day by Noon	150%						collected in (e.g.	, NY)	OSHA PEL	_		Cal (OSHA
Same Day	200%								MSHA	Other (specify):		
Sample Identifi (Maxmium of 20 Cl		Date Sampled	Collection Medium	An	alysis Reque	ested*	Method F	Reference^	Process (ent Chromium (e.g., welding painting, etc.)*			
^Galson Laboratories wil	II subsititute ou	r routine/preferred meth	I nod if it does not match	the method lis	sted on the	e COC unless this box is	s checked: U	se method(s	s) listed on COC				
For metals analysis: if re-	questing an ana	lyte with the option of a	lower LOQ, please indi	cate if the low	ver LOQ is	required (only availabl	e for certain analy	rtes - see SA	G):				
For crystalline silica: forr	n(s) of silica nee	eded must be indicated	(Quartz, Cristobalite, an	d/or Tridymite	e)*:								
Chain of Custody	Pr	int Name/Signature		Date	Time			Print Nam	e/Signature		Da	te	Time
Relinquished by :		-				Received by :							
Relinquished by:						Received by :							
	Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page of												

SGS	ALSOI	New Client	Report To* :					Invoice To	o*:				
343	ALSUI	Client Account											
		Client Account											
6601 Kirkvi	lle Rd use, NY 13057		 Phone No.* :					Phone N	 lo.:				
Tel: (315) 4	32-5227		Cell No. :					Phone No.: Email :					
888-43	Tel: (315) 432-5227							P.O. N	0.:				
www.sgsga	alson.com		Email address:						rd : Card on Fi	le 🗆	Call for Cred	dit Card Ir	nfo.
			_					_					
Need Results By:	(surcharge)			Samples subn	nitted usin	g the FreePumpLoan [™]	Program	Samples s	submitted using th	e FreeSam	plingBadge	s™ Progra	am
Standard	0%	Site Name :			Pro	ject :		Samp	oled by :				
4 Business Days	35%	Comments:											
3 Business Days	50%												
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Next Day by Noon	150%						collected in (e.g.	, NY)	OSHA PEL	_		Cal (OSHA
Same Day	200%								MSHA	Other (specify):		
Sample Identifi (Maxmium of 20 Cl		Date Sampled	Collection Medium	An	alysis Reque	ested*	Method F	Reference^	Process (ent Chromium (e.g., welding painting, etc.)*			
^Galson Laboratories wil	II subsititute ou	r routine/preferred meth	I nod if it does not match	the method lis	sted on the	e COC unless this box is	s checked: U	se method(s	s) listed on COC				
For metals analysis: if re-	questing an ana	lyte with the option of a	lower LOQ, please indi	cate if the low	ver LOQ is	required (only availabl	e for certain analy	rtes - see SA	G):				
For crystalline silica: forr	n(s) of silica nee	eded must be indicated	(Quartz, Cristobalite, an	d/or Tridymite	e)*:								
Chain of Custody	Pr	int Name/Signature		Date	Time			Print Nam	e/Signature		Da	te	Time
Relinquished by :		-				Received by :							
Relinquished by:						Received by :							
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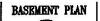






FRANCIS C. HAMMOND JR. SCHOOL

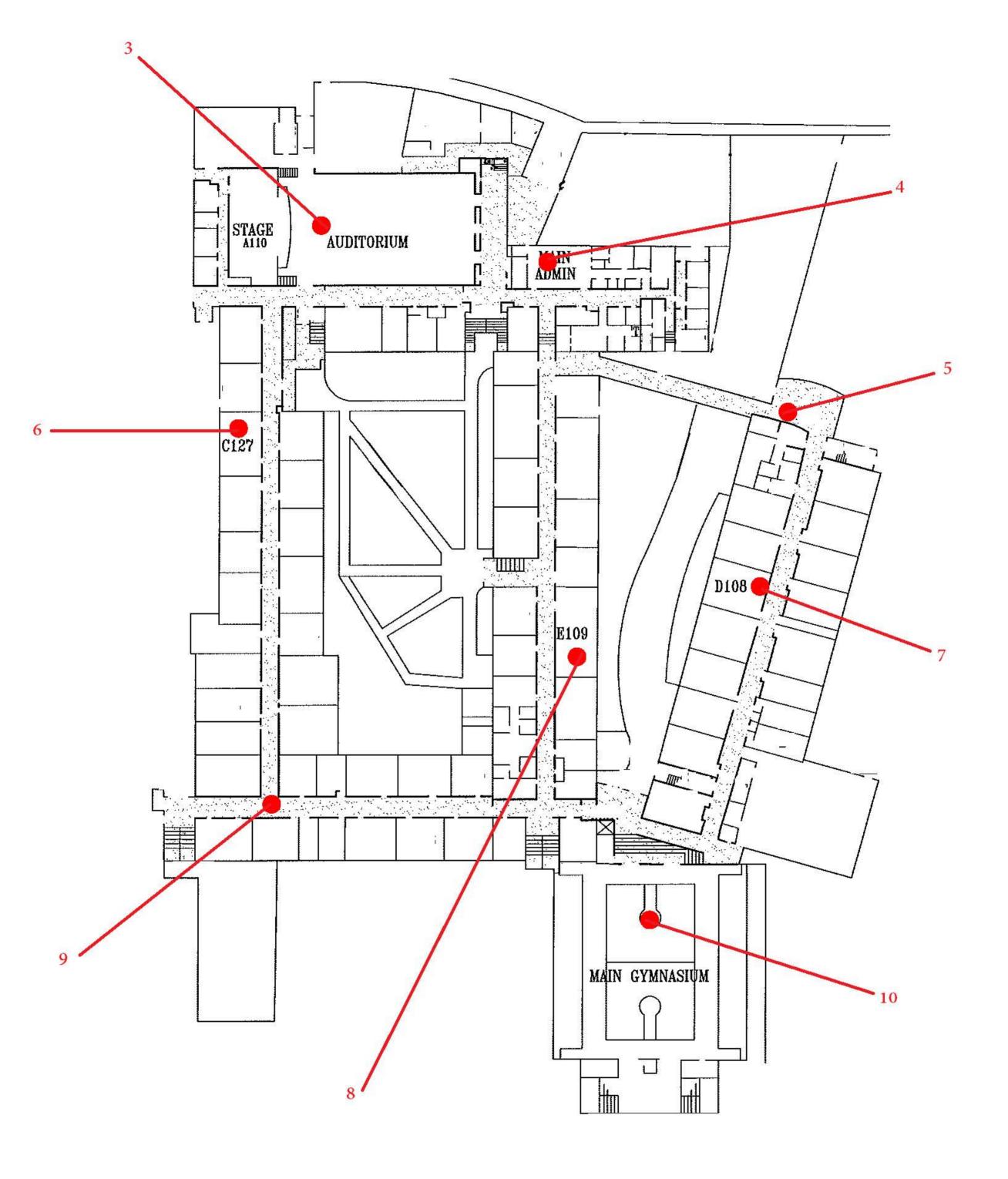
4646 Seminary Road Alexandria, Va 22304

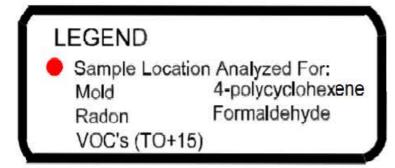




8382 Terminal Road, Suite B Lorton, VA 22079 Phone: 703-567-4346 Fax: 703-567-3487







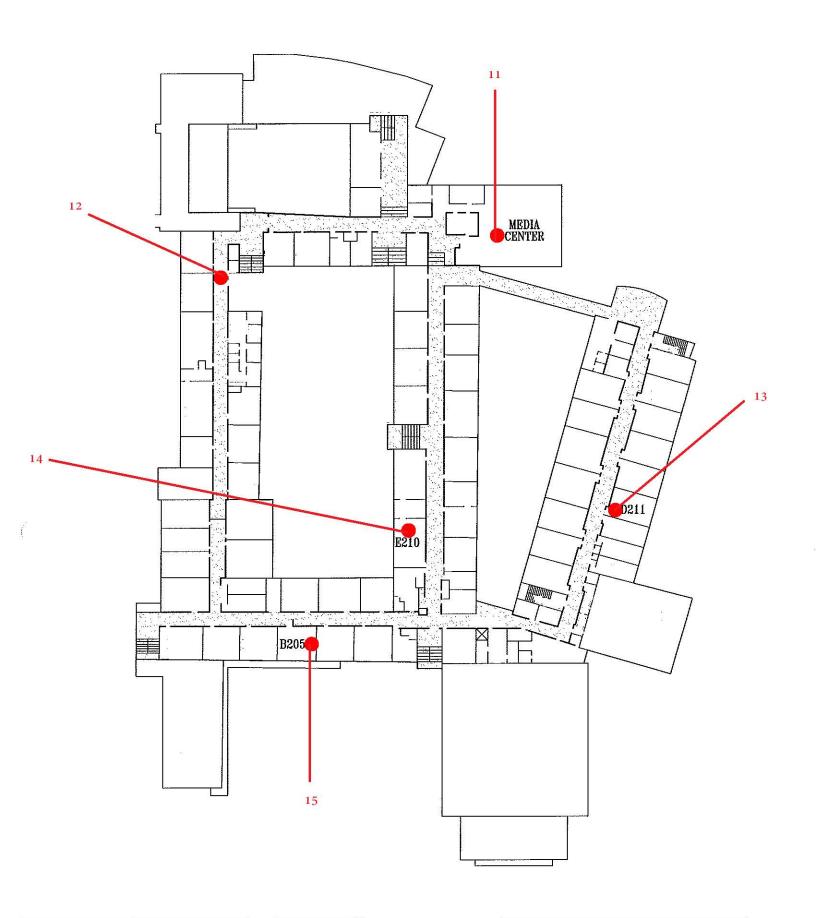
FRANCIS C. HAMMOND JR. SCHOOL

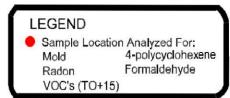
4646 Seminary Road Alexandria, Va 22304

FIRST FLOOR



8382 Terminal Road, Suite B Lorton, VA 22079 Phone: 703-567-4346 Fax: 703-567-3487





FRANCIS C. HAMMOND JR. SCHOOL

4646 Seminary Road Alexandria, Va 22304

SECOND FLOOR





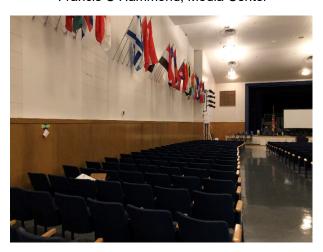




Francis C Hammond, Media Center



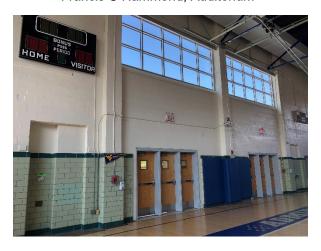
Francis C Hammond, Cafeteria-1



Francis C Hammond, Auditorium



Francis C Hammond, Classroom



Francis C Hammond, Gym



Francis C Hammond, Hallway



Francis C Hammond, Stairwell by Café-1



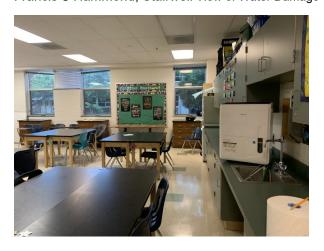
Francis C Hammond, Stairwell View of Floor



Francis C Hammond, Stairwell View of Water Damage



Francis C Hammond, Stairwell View of Mold



Francis C Hammond, C212



Francis C Hammond, C127



Francis C Hammond, Hallway by Room B229